PHASE I ENVIRONMENTAL SITE ASSESSMENT

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Huntington Beach, California

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EXECUTIVE SUMMARY

Langan CA, Inc. (Langan) completed a Phase I Environmental Site Assessment (ESA) of the California Resources Corporation (CRC) facility located at 20101 Goldenwest Street in the City of Huntington Beach, Orange County, California (the "subject property") under the written authorization of CRC(the "user").

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA as part of its environmental due diligence related to a potential redevelopment of the subject property.

Subject Property Layout

The subject property is approximately 92 acres and runs parallel to Pacific Coast Highway in the City of Huntington Beach. The subject property consists of active, plugged and abandoned, and idle wells, pipelines, storage tanks, oil and gas processing equipment and storage, and office and warehouse buildings. Plugged and abandoned wells, as well as active wells and idle wells are located throughout the subject property. Two stormwater detention ponds are located in the southeast portion of the subject property.

Subject Property Current Use

The facility is used to process extracted crude oil from subsurface petroleum reservoirs; produced water and gas are byproducts of the oil extraction and are also processed at the facility. The gas is processed to remove hydrogen sulfide (H_2S) along with other impurities to meet SoCal Gas quality specifications. The gas is then predominately sold to the SoCal Gas grid to be used in homes and businesses. As a safety back up, the gas can be flared off through a permitted combustion device. Produced water is processed to remove residual oil and solids and is reinjected into the subsurface oil reservoirs.

Oil and gas are also transported to the subject property via transmission pipelines from Platform Emmy, which is located off the coast of Huntington Beach on a State Lease, and from the Bolsa Chica (Bolsas) production area, which is located north of the subject property. The former Fort Apache facility, located at 1810 Pacific Coast Highway, also transferred produced fluids to the subject property via underground pipelines before operations ceased at Fort Apache in early 2024. Product from off-site areas is transferred to the subject property for processing, storage, and off-site distribution along with the product produced onsite.

Subject Property History

The earliest available records, 1890s topographic maps, indicate the property was undeveloped. According to California Geologic Energy Management Division (CalGEM) well records, the first oil well on the subject property was drilled in 1920. Since that time, the property has been used for oil and gas production. An affiliate of CRC acquired the subject property from Aera Energy in 2012.

Adjoining Properties and Surrounding Area

In the late 1920s, the properties to the east, west, northwest, and southeast adjoining properties and surrounding area were developed for oil and gas production. By the late 1940s, all adjoining properties were developed for oil and gas production. Residential development was first

observed to the east and southeast of the subject property by 1977. By 2002, the eastern and southeastern adjoining properties had been developed with residential dwellings, and the surrounding area appeared in its current general configuration.

Conclusions

Langan completed a Phase I ESA of the subject property using the scope guidelines and inherent limitations of ASTM E1527-21. Table ES-1 presents the conclusions of the Phase I ESA.

Table ES-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
REC-1: Current and Historical Oil and Gas Production Infrastructure on the Subject Property: Records from CalGEM indicate the first oil well on the subject property was spudded in 1920. Historical aerial photographs from the 1920s through the 1990s note pits, tank farms, large-capacity aboveground storage tanks (ASTs), oil and gas wells, and other infrastructure associated with the production of oil and gas. Sumps were visible from the 1920s until the 1950s and, according to interviews, were reportedly filled with undocumented material. The sumps and pits were historically used for the storage of drilling muds, produced water, and oil and gas condensates, and are considered potential sources of subsurface impacts. Currently, some pits are used to collect stormwater, which is combined with produced water and reinjected into the subsurface reservoirs. ASTs have been on the subject property, prior to the implementation of federal secondary containment requirements. These ASTs were likely placed directly on soil without containment, increasing the potential for historical releases. According to CalGEM, the property currently contains 92 active, 142 idle, and 419 plugged and abandoned wells. Apparent petroleum residue was observed within the well cellars of active and idle wells. Additionally, previously plugged and abandoned wells are located on the subject property. Based on the historical use of pits and sumps, undocumented fill, the operation of ASTs without secondary containment, and the potential for releases from oil and gas wells, the potential for hazardous substance releases to the subsurface is considered a REC.
REC-2: Pipeline Chases: The subject property is bisected northwest–southeast by two pipeline chases. The northern chase (Chase 1) was first visible on the 1947 aerial photograph and, according to site observations and interviews, is suspected to be unlined. Apparent tar and petroleum impacts were observed in Chase 1. Pipelines within this chase transmit oil and gas from the State Lease and Bolsas Oil Fields into on-site ASTs. The southern chase (Chase 2) was first visible on the 1953 aerial photograph and is currently lined with concrete; however, large sections of the lining are cracked or missing. The installation date of the concrete lining is unknown. Pipelines within this chase transport oil and gas from Platform Emmy and on-site wells into on-site ASTs. According to interviews, the chases are also used for spill containment when necessary. Due to the historically unlined condition of Chase 1 and the current concrete condition of Chase 2, there is potential for petroleum to impact the underlying surface. Therefore, Chase 1 and Chase 2 are considered a REC.
REC-3: Documented Spills and Releases and Site Reconnaissance Observations: During the historical review, a pipeline laydown area was first identified in the 1947 aerial photograph, northwest of the Main Office and remains in use. According to interviews, used pipelines are staged here

ASTM E1527-21 Scope Items
for inspection prior to reuse or recycling, and may remain for several weeks to several months. During the site reconnaissance, oil was observed seeping from pipelines, and oily staining was noted throughout the laydown area soils. Additional oily staining was observed on soils and cracked concrete in multiple areas across the property. Northwest of the laydown area, a chemical storage area for Platform Emmy contained pallets and totes of drilling lubricant. Containers were leaking onto the soil, and an approximately 500-square-foot (sf) oily stain with associated odor was observed. The main chemical storage area, southeast of the Main Office, contained 55-gallon metal drums of motor oil, all stored on wooden pallets and within secondary containment. The drums appeared intact; however, water with floating oil was present within the containment. A tote was observed releasing diesel exhaust fluid. Additional totes of scale and corrosion inhibitors and amino propanol were intact without visible releases. A 450-gallon diesel tank located along the southeastern corner of the storage area was surrounded by pooling product and staining on deteriorated, cracked concrete. Another tank in the southern portion of the area was placed within plastic secondary containment; oily staining and fluid were observed on the surrounding concrete. The tank label was illegible, but a visible hazard label indicated the contents likely included diesel. Additionally, the subject property is identified in the ERNS and CHMIRS databases for hazardous substance releases, with 23 incidents reported between 1995 and 2023. Documentation of cleanup activities or confirmation sampling were not available in these databases or other resources researched as part of this ESA. The hazardous substances releases noted in the databases and observations made during the site reconnaissance have a potential to impact the underlying surface and are considered a REC.
REC-4: 2024 – 2025 Subsurface Investigation Findings: Between November 2024 and August 2025, Langan conducted subsurface investigations in accessible areas of concern identified through historical research at the subject property. While several investigated areas were absent of subsurface impact, several analytical results identified total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding selected environmental screening levels (ESLs) in multiple areas across the property. The investigation was limited to soil and soil vapor; however, given the detections above selected ESLs, these findings are considered a REC.
REC-5: Adjoining and Surrounding Current and Historical Oil and Gas Production: Oil derricks were first visible in the area surrounding the subject property on the 1928 aerial photograph. The southeast and east adjoining properties were used for oil and gas production until residential development occurred by 2002, while the north and northeast adjoining properties have remained in oil and gas production since 1928. Historical aerials also show tank farms, pits, and sumps on adjoining and surrounding properties until the 1970s. Oil and gas infrastructure was historically associated with hazardous substances use, and pits and sumps were commonly used for the collection and storage of drilling muds, produced water, oil and gas condensates, and other chemicals used in the drilling and production process. The north and northeastern adjoining property, Bolsas, is listed in the ERNS and CHMIRS databases for hazardous substance releases related to oil and gas production between 1994 and 2006. Based on prior groundwater investigations and the topography of the area, groundwater flow is expected to flow between west to southwest, creating a potential migration pathway toward the subject property.

ASTM E1527-21 Scope Items
Therefore, historical oil and gas production on the adjoining and surrounding properties, combined with documented hazardous substance releases at Bolsas, are considered a REC due to the potential for soil and groundwater migration impacts at the subject property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs for the subject property.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs for the subject property.
De Minimis Conditions
Langan did not identify de minimis conditions for the subject property.
Significant Data Gaps
Langan did not identify significant data gaps for the subject property.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
BER-1 – Asbestos Containing Materials (ACM): According to interviews and observations made during the site reconnaissance, ACM is reportedly present within the buildings. Additionally, ACM is also often present in the gaskets, pipe flanges, and pipe wrapping in oil fields. Due to the ACM, additional mitigation measures may need to be implemented during redevelopment activities.
BER-2 – Methane: The subject property is located within the City of Huntington Beach Methane District. Methane is a naturally occurring flammable gas that is associated with natural decay and oil and gas production. Given the use of the subject property for oil and gas operations since the 1920s, methane mitigation measures will likely be required during redevelopment activities.
BER 3 - PFAS from Legacy AFFF in Firefighting Foam Tank. Although the current AFFF formulation stored in the firefighting foam tank does not appear to contain PFAS, legacy AFFF may have included PFAS compounds. During decommissioning, it may be necessary to assess for the presence of PFAS within the system and implement appropriate decontamination and disposal measures.

1. INTRODUCTION

Langan CA, Inc. (Langan) completed a Phase I Environmental Site Assessment (ESA) of the CRC facility located at 20101 Goldenwest Street in the City of Huntington Beach, Orange County, California (the "subject property") under the written authorization of CRC (the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA as part of its environmental due diligence associated with a potential redevelopment of the subject property.

1.1 Purpose

The purpose of this Phase I ESA is to identify recognized environmental conditions (REC) associated with the subject property. This purpose also includes identifying controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), de minimis conditions, and significant data gaps. The definitions of REC, CREC, HREC, de minimis condition and other select ASTM terms used in this report are in Section 8.

1.2 Scope of Services

Langan's scope of services consisted of the completion of a Phase I ESA following the guidelines of ASTM E1527-21. Langan's scope of services as it pertains to the elements of a Phase I ESA as specified in ASTM E1527-21 is described below.

On 8 July 2024, the US EPA final rule designating two per- and polyfluoroalkyl substances (PFAS) – perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) including their salts and structural isomers – as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) became effective. Because of the complex and varied historical use of PFAS in various industries; limited prior disclosures of PFAS content on product specification sheets, Material Safety Data Sheets (MSDS), and Safety Data Sheets (SDS); the complex chemistry and chemical transformations associated with some PFAS; and the ever-growing and varied list of state regulations, it is not feasible to evaluate PFOA and PFOS without also considering other PFAS. As such, absent analytical data, Langan incorporated a review of PFAS as a general class into this Phase I ESA.

PFAS and other CERCLA hazardous substances and petroleum products have been detected in background environmental samples across the globe, including in areas removed from specific recognized sources. This Phase I ESA was not intended to evaluate background concentrations of CERCLA hazardous substances or petroleum products, regardless of whether the source is naturally occurring or anthropogenic. The objective of Langan's scope of services was to identify the presence, likely presence, and/or material threat of a release of CERCLA hazardous substances and petroleum products related to specific property uses that are generally recognized as known or potential sources of such substances and products.

1.2.1 Records Review and Local Government Interviews

Langan contracted a third-party provider to search environmental regulatory databases and provide historical records. The database search included select federal, state, local and tribal standard source environmental databases within the approximate search radii specified by ASTM E1527-21. A complete list of databases search is provided in the environmental database report included in Appendix C.

Langan submitted California Public Records Act (CPRA) requests to supplement environmental database listing information. The CPRA requests were submitted to the City of Huntington Beach, Orange County Fire Authority (OCFA), OC Health Care Agency (OCHCA), OC Sanitation District (OCSD), Santa Ana Regional Water Quality Control Board (SARWQCB), Department of Toxic Substance Control (DTSC), Air Quality Management District (AQMD), and California Geologic Energy Management Division (CalGEM). Agency CPRA-requested information, where received, is discussed in relevant sections of this report and included in Appendix F.

Langan supplemented the third-party-provided historical records with review of online historical record sources including Google Earth Pro and University of Santa Barbara Aerial Archive.

1.2.2 Site Reconnaissance and Owner/Operator/Occupant Interviews

Langan completed the site reconnaissance on 22 August 2025. Katherine Thomas, Senior Staff Scientist and Travis Knight, Project Engineer, of Langan were accompanied by the following CRC "key site managers".

- Terry Junkins, Operations Supervisor (2 years associated with subject property, 12 years associated with CRC operations)
- Joey Cordova, Gas Operations Manager (8 years associated with subject property)

Key site managers noted that they were not aware of naturally occurring radioactive material (NORM) present at the subject property.

Additionally, according to interviews, all of the historical buildings contain asbestos-containing materials (ACM) and is considered a BER.

Langan walked the periphery of the subject property, observed the subject property from adjoining public thoroughfares, and walked the accessible interiors of structures at the subject property. Langan observed the adjoining properties and the surrounding area from the periphery of the subject property and from public thoroughfares adjoining the subject property. The weather at the time of the site reconnaissance was approximately 85°F and sunny.

1.2.3 Evaluation, Report and Parts Used in Concert

Langan evaluated the information obtained from the records reviews, site reconnaissance and interviews described above, and from the user as described in Section 1.3 in concert with each other. Langan's findings, opinions, and conclusions are discussed throughout this report. Significant assumptions, or deletions, deviations or exceptions to ASTM E1527-21 are noted in Section 1.4.

1.2.4 Non-ASTM Scope Services

The scope of services for the Phase I ESA did not include non-scope ASTM considerations.

1.3 User Responsibilities

Langan requested that the user provide the results of tasks the user is responsible for completing to satisfy the requirements of AAI. The tasks include: searching for known environmental liens and activity and use limitations (AULs) filed or recorded against the subject property, and provision of information related to specialized knowledge or experience of the user or the degree of obviousness relative to conditions indicative of releases or threatened releases; actual knowledge of the user regarding environmental liens or AULs related to the subject property; specialized knowledge or experience of the user; reasons for significantly lower purchase prices, and commonly known or reasonably ascertainable information within the local community about the subject property. Langan also requested that the user state the reason the Phase I ESA was requested. A summary of the user's responses is provided in Appendix D and relevant information provided by the user is discussed in applicable sections of this report.

Unless specifically included in the scope of services, Langan did not complete a title search or a search for environmental liens or AULs, as that is the responsibility of the user. If the user requested that Langan complete such searches on the user's behalf, the information was supplied to Langan by a vendor, and to the vendor by government sources; therefore, neither Langan nor the vendor can verify the completeness or accuracy of the title search, or AUL searches.

1.4 Limiting Conditions/Deviations

Langan did not experience limiting conditions/deviations during this Phase I ESA.

Langan did not delete or deviate from the ASTM E1527-21 guidelines during this Phase I ESA.

1.5 Data Gaps

Data gaps, where applicable, are discussed throughout the report. Langan did not identify significant data gaps during this Phase I ESA.

2. SUBJECT PROPERTY DESCRIPTION AND CURRENT USE

The following sections describe the subject property location, ownership, physical setting, and current layout and operations.

2.1 Location, Legal Description, and Ownership

The approximately 92-acre subject property is located north of the intersection of Goldenwest Street and Pacific Coast Highway in the City of Huntington Beach. The subject property consists of two parcels that span across Seapoint Street. The subject property is described by the Orange County Assessor Parcel Numbers (APNs) 023-181-53 and 023-181-54. The subject property is owned by a wholly-owned subsidiary of CRC.

2.2 Physical Setting

The physical setting that includes the geologic, hydrogeologic, hydrologic, and topographic characteristics of the subject property and surrounding area is discussed below.

2.2.1 Topography

The 2022 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Huntington Beach, CA, depicts the subject property at an elevation of approximately 35 feet above mean sea level (amsl) with a gentle slope downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and the Pacific Ocean, which is located approximately 200 feet west-southwest of the subject property.

2.2.2 Geology

The USGS maps soil at the subject property as Quaternary alluvium and marine deposits from the Pleistocene to Holocene ages. According to the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) data for Huntington Beach, soils at the subject property are a combination of Marina loamy sand with zero to two or 9 to 30 percent slopes, Myford sandy loam with zero to two percent slopes, beaches soil and tidal flats soil.

2.2.3 Hydrogeology

Surface water bodies are not present within the boundary of the subject property. The nearest surface water body is the Pacific Ocean. According to a June 1990, Phase I Site Assessment Report, conducted by Groundwater Technology, Inc., groundwater is approximately 35 feet below ground surface (ft bgs) and flows to the general north. However, groundwater flow can be influenced by several factors such as wetlands, hydrogeologic, and anthropogenic variables. As reported in a subsequent 1995 groundwater monitoring report prepared by Groundwater Technology, Inc., groundwater was measured at approximately 34 ft bgs with groundwater flow to the west. Only minor level fluctuations (less than 0.04 feet) due to tidal influences were noted. Groundwater was again encountered during Langan geotechnical investigations between 35.5 and 36.3 ft bgs.

2.3 Subject Property Description

The subject property is located in the Huntington Beach Oil Field. The subject property consists of active, plugged and abandoned, and idle wells, pipelines, storage tanks, oil and gas production

equipment and storage, and office and warehouse buildings. Plugged and abandoned wells, as well as active wells and idle wells are located throughout the subject. Langan noted apparent petroleum releases within the well cellars. According to CalGEM at the time of Phase I ESA development, there are currently 92 active wells (waterflood and oil and gas) and 142 idle wells operated by CRC. CalGEM has records for 659 wells on the subject property that are characterized in the list below by the operator and well types. A list of current and historical wells with their corresponding APIs can be found in Appendix E.

Current and Historical Wells

Operators and Well Types	Number of Wells
Aera Energy LLC	1
Canceled	1
Oil & Gas	1
California Resources Production Corporation	562
Active	92
Oil & Gas	68
Waterflood	24
Canceled	3
Oil & Gas	3
Idle	142
Oil & Gas	100
Steamflood	1
Water Disposal	1
Water Source	5
Waterflood	35
Plugged	325
Injection	8
Multi-Purpose	12
Oil & Gas	205
Unknown	52
Water Disposal	9
Water Source	3
Waterflood	36
Chevron U.S.A. Inc.	94
Plugged	94
Multi-Purpose	1
Oil & Gas	72
Unknown	15
Water Disposal	4
Waterflood	2
Oxy USA Inc.	1
Canceled	1
Oil & Gas	1
Shell Western E&P Inc.	1
Canceled	1
Oil & Gas	1
Total number of wells	659

Historical pits are located adjacent to the active wells that are currently used as stormwater collection basins. Two detention ponds, located in the southeast end of the subject property, collect "clean" stormwater, or stormwater that has not been impacted by the oil and gas production or storage (i.e. stormwater collected northeast of Chase 1, see below.)

The subject property is northwest-southeast bisected by two pipeline chases: the northeastern chase, noted as Chase 1, and the southwestern chase, noted as Chase 2. Chase 1 was first visible on the 1947 aerial photograph. According to interviews, Chase 1 is suspected to be unlined, and apparent tar/petroleum impacts were observed throughout the length of the chase. Pipelines in Chase 1 transmit oil and gas from the State Lease and Bolsas oil fields into ASTs on the subject property.

Chase 2 is first noted on the 1953 aerial photograph. According to on-site interviews, the pipelines transmit oil and gas produced on-site to storage tanks and transmit product from Platform Emmy into ASTs on-site. Chase 2 is presently concrete lined, though observations made during the site reconnaissance noted large portions of concrete were either missing or contained deep cracks. Key site managers did not have knowledge of when the Chase was concrete lined and suspect that it was historically unlined.

Due to the potential for petroleum impacts to the underlying subsurface, Chase 1 and Chase 2 are considered a REC.

During the historical review, a pipeline laydown area was first identified in the 1947 aerial photograph northwest of the Main Office and was also observed during the site reconnaissance. According to interviews, used pipelines are staged in this area and inspected to determine whether they can be reused or must be recycled. Pipelines may remain in the laydown area for periods ranging from several weeks to several months. During the site reconnaissance, oil was visibly seeping out of some of the pipelines and oily staining was seen throughout the laydown area onto the underlying soil. Additionally, oily staining was visibly throughout the subject property both on soil and concrete near cracks. The visible on-site releases have a potential to impact the subsurface and are considered a REC.

A Subject Property Layout Map is provided in Figure 2 of Appendix A. Photographs of the subject property and a checklist documenting Langan's observations relative to the features, activities, uses and conditions outlined in Section 9.4 of ASTM E1527-21 are in Appendix D.

2.4 Current Subject Property Use

The facility is used to process extracted crude oil from subsurface petroleum reservoirs; produced water and gas are byproducts of the oil extraction and are also processed at the facility. The gas is processed to remove hydrogen sulfide (H_2S) along with other impurities to meet SoCal Gas quality specifications. The gas is then predominately sold to the SoCal Gas grid to be used in homes and businesses. As a safety back up, the gas can be flared off through a permitted combustion device. Produced water is processed to remove residual oil and solids and is reinjected into the subsurface oil reservoirs.

Oil and gas are also transported to the subject property via transmission pipelines from Platform Emmy, which is located off the coast of Huntington Beach on a State Lease, and from the Bolsa Chica (Bolsas) production area, which is located north of the subject property. The former Fort Apache facility, located at 1810 Pacific Coast Highway, also transferred produced fluids to the subject property via underground pipelines before operations at Fort Apache ceased in early

2024. Product from off-site areas is transferred to the subject property for processing, storage, and off-site distribution along with the product produced onsite

Oil and gas are also transported to the subject property via transmission pipelines from Platform Emmy, which is located off the coast of Huntington Beach on a State Lease, and from the Bolsa Chica production area, which is located north of the subject property. The former Fort Apache facility, located at 1810 Pacific Coast Highway, also transferred produced fluids to the subject property via underground pipelines before operations ceased at Fort Apache in early 2024. Product from off-site areas is transferred to the subject property for processing, storage, and off-site distribution along with the product produced onsite.

Subcontracted well maintenance and abandonment activities occur periodically at the subject property and were observed during the site reconnaissance. The following table summarizes subject property utility providers.

Table 2-1 Utility Providers

Utility	Providers
Electricity	Southern California Edison
Natural gas	Southern California Gas
Water	Municipal Water District Orange of County
Sewer	City of Huntington Beach

2.5 Hazardous Substances and Petroleum Products

Hazardous substance and petroleum product use at the subject property is primarily related to oil and gas production and storage and gas processing. Langan observed hazardous substances stored in dedicated areas throughout the subject property.

Below is an inventory of current chemicals and maximum daily usage at the subject property:

Chemical Inventory

Product Name	Identified Uses from SDS[1]	Tank Capacity (Gal[2])	Daily Usage (GPD[3])
SCW4056	Scale Inhibitor	300	2.10
PAO2000	Paraffin Dispersant	240	0.45
DMO8194HF	Demulsifier	125	0.94
SCW4056	Scale Inhibitor	300	2.34
SCW4056	Scale Inhibitor	200	2.83
DMO8424	Emulsion Breaker	240	9.46
CRW3658	Corrosion inhibitor	200	2.99
CRW3658	Corrosion inhibitor	125	1.06
WCW7918	Scale and Corrosion inhibitor	200	0.97
SCW4056	Scale Inhibitor	200	1.48
SCW4056	Scale Inhibitor	200	2.83

Product Name	Identified Uses from SDS[1]	Tank Capacity (Gal[2])	Daily Usage (GPD[3])
DMO7040	Demulsifier	210	0.48
CRW3658	Corrosion inhibitor	300	3.21
DMO7040	Demulsifier	250	1.36
CRW3658	Corrosion inhibitor	125	1.72
SCW4056	Scale Inhibitor	200	1.61
CRW3658	Corrosion inhibitor	125	0.46
SCW4056	Scale Inhibitor	200	1.32
CRW3658	Corrosion inhibitor	200	1.10
CRW3658	Corrosion inhibitor	125	0.99
SCW4056	Scale Inhibitor	130	1.43
CRW3658	Corrosion inhibitor	200	1.36
RBW6560	Water clarifier	250	5.19
SRW156	Scale Inhibitor	1000	19.05
DMO8298X	Demulsifier	125	3.84
HSW700	Hydrogen Sulfide Scavenger	500	36.63

Note: [1]SDS: Safety Data Sheet – provided by CRC
[2]Gal: Gallons
[3]GPD: Gallons per day

2.5.1 Underground Storage Tanks (USTs)

Based on the EDR report and permits obtained from GeoTracker and the user, the following USTs have been associated with the subject property:

Tank #	Capacity (gallons)	Contents	Description	Installation Date	Removal Date
1	2,000	Stoddard solvent	Unlined, carbon-steel tank	Unknown	1989
2	5,000	Unleaded gasoline	Unlined, carbon-steel tank	Unknown	1988
3	7,500*	Leaded gasoline	Unlined, carbon-steel tank	1972	1988
4	10,000	Stoddard solvent / lubricating oil	Unlined, carbon-steel tank	1974	1989
5	10,000	Unleaded gasoline / leaded gasoline	Unlined, carbon-steel tank	1974	1989

Tank #	Capacity (gallons)	Contents	Description	Installation Date	Removal Date
6	500	Stoddard	Unknown	Unknown	1989
7	1,000	Diesel	Unlined, carbon-steel tank	1975	1988
8	10,000	Unleaded gasoline	Fiberglass steel	1989	2001

*The Remedial Action Completion Certification (RACC) issued following the removal of Tanks 1 through 5 notes a 7,000-gallon leaded gasoline UST. However, in all prior documentation for Tanks 1 through 5, reference is only made to a 7,500-gallon tank and there is no mention of a different 7,000-gallon UST. It is believed that the volume of the leaded gasoline tank is incorrectly recorded in the RACC and the 7,000-gallon and 7,500-gallon USTs are in reference to the same tank.

According to investigation reports and tank removal reports, the USTs were primarily located in a former fueling station near the Maintenance Building. Langan was unable to determine the original date of construction of the fueling station; however, due to subsequent records of removal, Langan does not deem this to be significant. The fueling station originally consisted of five tanks – Tanks 1 through 5, which were removed between 1988 and 1989. After the removal of the tanks, Tank 8 was installed and then subsequently removed in 2001.

According to a figure included with a 1989 OCHCA UST removal permit, a 500-gallon Stoddard solvent UST was historically located north of the Crude Oil Storage and Produced Water Filtration and Re-Injection area. Additionally, according to a SWRCB Hazardous Substance Storage Container Information for Orange County document, a 1,000-gallon diesel UST was formerly located at the subject property and removed in 1989. No further records or information were available to verify the existence of these USTs. Subsurface investigations and geophysical surveys conducted between 2024 and 2025 in suspected areas did not indicate the presence of any USTs beyond those discussed previously in the former fueling area near the Maintenance Building (see Section 3.3).

2.5.2 Aboveground Storage Tanks (ASTs)

Langan observed ASTs for crude oil production and storage and ASTs for natural gas storage and processing in the southern portion of the subject property. ASTs are mounted on concrete and within secondary containment and Langan did not observe stains or releases within the secondary containment. Langan also observed a diesel AST associated with the fire suppression system. The diesel AST is pad-mounted and within secondary containment and Langan did not observe releases within the secondary containment.

Tank Farm 1 occupies approximately 830 sf in the southern portion of the subject property. It currently contains ASTs used for crude oil storage and produced water filtration. Aerial photographs indicate that ASTs have been present in this area since the early 1990s. Historically, Tank Farm 1 covered a larger footprint of about 2,000 sf, with the number of ASTs ranging from roughly 12 in 1947 to about 50 in 1988. The 1990 aerial photograph shows demolition activities at the tank farm, with visible surface staining.

Tank Farm 2 was located in the northern portion of the subject property between the 1940s and 1990s. The number of ASTs in this area ranged from approximately 13 (1947 aerial photograph) to 22 (1990 aerial photograph). Drilling mud processing also took place here, both for onsite use and for use at Platform Emmy. During the site reconnaissance, plastic tanks within secondary containment and sealed five-gallon buckets containing residual materials from the mud processing operations were observed in this area.

Secondary containment for ASTs storing oil or hazardous substances in volumes greater than or equal to 1,320 gallons was not required by the U.S. Environmental Protection Agency (USEPA) until 1988. Langan conducted subsurface investigations within Tank Farm 1 and Tank Farm 2 and identified metals, TPH, VOCs, SVOCs, and PAHs in the areas. Due to the identified constituents and the operation of ASTs prior to the implementation of secondary containment requirements, the potential for negative impacts to the subsurface constitutes a REC.

A tank battery was identified on the subject property during the historical aerial review. In the 1928 aerial photograph (the earliest available), the tank battery is visible along the southeastern property line, extending to the northeastern adjacent property. It remained visible through the 1963 aerial photograph and appears to have been located within an unlined trench. Langan conducted subsurface investigations in 2024 and 2025 within accessible historical AST tank farm areas and detected metals, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polycyclic aromatic hydrocarbons (PAHs). A detailed summary of these findings is provided in Section 3.3. The presence of materials identified above selected screening levels during subsurface investigations constitutes a REC.

2.5.3 Drums, Totes, and Intermediate Bulk Containers

During the site reconnaissance, Langan observed the main chemical storage area southwest of the Main Office. The chemical storage area contained a concrete base with visible cracking and deterioration. 55-gallon poly drums containing glycols were noted in the area to be intact and on wooden pallets within secondary containment. 55-gallon metal drums containing motor oil were noted in the area to be intact and on wooden pallets within secondary containment; however, water with floating oil was noted within the secondary containment. A tote was observed in the north corner releasing diesel exhaust fluid. Storage containers and totes of scale and corrosion inhibitors and amino propanol were observed intact and without obvious signs of releases. A 450-gallon diesel fuel tank is located along the southeastern corner of the storage area with pooling product and staining on the deteriorated and cracked concrete. A tank was observed in the southern portion of the storage area within plastic secondary containment. Oily staining and fluid were observed on the concrete surrounding the secondary containment. The tank label was illegible, preventing identification of the contents; however, the hazard label remained visible and indicates the tank likely contains diesel.

Northwest of the Pipeline Laydown area, Langan observed a chemical storage area for Platform Emmy that contained pallets and totes of drilling lubricant. The containers were leaking lubricant onto the soil and an approximately 500-square foot (sf) oily stain and accompanying odor was noted.

The staining and releases within the chemical storage areas are an environmental concern and considered a REC due to the potential for impacts to the underlying subsurface.

2.5.4 Other Chemical Storage, Containers, or Equipment

Langan observed shelves and storage cabinets containing retail-size containers of maintenance-related products and janitorial products in the maintenance building. Compressed gas tanks were observed in the maintenance and welding buildings. The containers appeared to be in good condition with no visual sign of release and are not considered an environmental concern.

A firefighting foam, aqueous film-forming foam (AFFF), tank is located northwest of the Production Office, with subsurface piping extending southwest to the southern tank farm for fire suppression. The tank, manufactured in 1988, currently contains AFFF. A review of the current MSDS/SDS for the foam in the tank did not identify PFAS compounds; however, earlier foam formulations stored in the tank may have contained PFAS, particularly those prior to the phase-out efforts of fluorinated foams in the early 2000s.

Key site managers reported that they were not aware of any deployment of the AFFF system on the subject property. No evidence of fire-related incidents or use of the fire suppression system was identified in historical resources, standard environmental records, or during Langan's extensive review of the onsite library. Additionally, standard environmental records and databases do not contain information to suggest the presence of PFAS on the subject property or in its' subsurface.

Foam within the AFFF tank is deployed as a closed system, with valves and pipes to divert foam to specific areas within the southern tank farm if needed. Testing of the system deployment is not completed per information provided by key site managers. Samples of the AFFF tank contents are periodically conducted to verify efficacy of the foam. Key site managers were unaware of how often the foam in the tank is replaced but could confirm the foam had not been replaced within the last five years.

During site reconnaissance, the AFFF tank appeared to be in good condition with no visible signs of release. Any potential deployment would have occurred within the secondary containment of the southern tank farm. Based on the available information, the likelihood of a PFAS-related release from the AFFF tank to the subsurface is considered low, and the presence of the tank is not considered a recognized environmental condition.

2.6 Air Emissions

Air emission sources at the subject property include oil and gas wells, gas flares, and production equipment. Langan did not identify obvious impacts, such as visible emissions or odors, from air emission sources at the subject property. Permits from the South Coast Air Quality Management District (AQMD) are included in Appendix D.

Langan does not consider the air emissions an environmental concern for the subject property.

2.7 Waste Management

The following sections describe current hazardous and non-hazardous waste streams, and observations of fill areas or other solid waste throughout the subject property.

2.7.1 Hazardous Waste

The EDR database report indicates that CRC was a Resource Conservation and Recovery Act (RCRA) small quantity generator (SQG) of hazardous waste. Specific wastes are discussed in Section 3.2. According to key site managers, hazardous wastes are collected by Waste

Management (WM) and Ecology Control Industries (ECI). Upon review of the DTSC's Hazardous Waste Tracking System (HWTS), CRC generated approximately 361-tons of non-RCRA hazardous waste in 2025. The non-RCRA hazardous waste was described as other inorganic solid waste (0.25-tons) and contaminated soils from site cleanup (360.96-tons). The contaminated soils are from shallow soil excavations conducted by Langan described in Section 3.3. CRC did not generate RCRA hazardous waste in 2025.

2.7.2 Non-Hazardous Waste

According to key site managers, general refuse generated at the subject property is collected in roll-off containers that Langan observed on the exterior of the buildings. The wastes are then collected by Republic and Patriot.

2.7.3 Fill Areas or Solid Waste

Langan did not observe areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of garbage, construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting solid waste disposal. However, interviews with key site managers noted that there are historical sumps, detention basins, pits, or other similar features that have reportedly been filled with material.

2.8 Wastewater

Sanitary water is discharged into seven septic tanks on the subject property near the following buildings: production office, the former chemical laboratory, two near the change room, the gas plant office, the former main office, and the training building.

During the site reconnaissance, a truck wash was observed along the eastern portion of the maintenance building. The truck wash has been on the subject property since at least the 1980s. Discharge from the truck wash goes into a catch basin adjacent to the building that connects to other stormwater drainage pipes at the subject property.

2.9 Stormwater

The subject property has an active National Pollutant Discharge Elimination System (NPDES) Waste Discharge Identification (WDID) 8301027973. Stormwater is monitored and sampled in accordance with the Stormwater Pollution Prevention Plan.

The process areas of the subject property have pits located adjacent to the well cellars, which are used to collect stormwater. Stormwater collected in the Chase 1, Chase 2, well cellars, and AST cellars are pumped into the pits. Stormwater is combined with produced water and then re-injected into the subsurface oil reservoirs. Water injection is conducted as part of the CalGEM and SARWQCB approved Underground Injection Control (UIC) Project for the subject property. Injection permits are issued for each well by CalGEM. According to historical imagery, the pits have been on the subject property since the 1950s and may have compromised concrete lining. The potential for the stormwater to have petroleum impacts and affect the underlying subsurface is considered a REC.

Stormwater runoff from the northeastern section, where there is no process equipment, is considered "non-impacted." The non-impacted stormwater is collected and pumped via an oil skimming tank to two connected detention ponds located near the entrance off Goldenwest

Street. The detention ponds total approximately 4.7 acres. When the detention ponds exceed their capacity, runoff flows to the municipal storm sewer system. According to interviews, stormwater is regularly tested to mitigate the risk of discharging pollutants.

3. SUBJECT PROPERTY HISTORY AND RECORDS REVIEW

The following sections provide summaries of the historical uses of the subject property, and available information regarding documented environmental conditions associated with the historical uses.

3.1 Historical Summary

Langan compiled the following summary of the subject property history based on a review of readily available and reasonably ascertainable sources and interviews. Historical resources are provided in Appendix E.

Table 3-1 Subject Property History

Time Period	Historical Discussion
1890s	The subject property is depicted as undeveloped on the 1896 topographic maps.
1920s – 1930s	According to historical oil well records, the first oil and gas well was spudded on the subject property in 1920. Historical aerial imagery from the 1920s note the presence of oil derricks and pipelines on the subject property, with a production facility located along the northeastern property line. Apparent dried sumps were present south of the facility, and a line of ASTs extended along the southeastern boundary to the northeast of the subject property. By the 1930s, the number of oil derricks on the subject property had increased, while the production facility previously noted was no longer visible. Additional apparent sumps were observed north of the line of ASTs, and smokestacks or gas flares were visible along the southeast and southwest property boundaries.
1940s – 1950s	In the 1940s, well cellars are visible along the southwestern property line. In the central portion of the subject property, an apparent trench bisects the northeast and southwest portions. There appears to be a pipeline laydown area in the central portion of the subject property. Tank farms are visible in the northern and southern portion and sumps are visible in sporadic locations throughout the subject property. Previous ASTs are still visible along the southeastern property line. By the 1950s, there are an increased number of well cellars along the southwest property line and smokestack/gas flares are visible along the well cellars and in the central portion of the subject property. There is also an increased number of ASTs in the previously noted tank farms. Structures are apparent near the pipeline laydown area. Other features previously noted are still visible on the subject property.
1960s – 1970s	In the 1960s, apparent pits or detention basins are visible adjacent to the well cellars along the southwestern property line. Additional structures are visible in the central portion of the subject property, near the previously noted pipeline laydown area. By the 1970s, the number of ASTs in the tank farms has further increased. Smokestacks/gas flares are apparent near the tank batteries and well cellars. There are an increased number of structures near the pipeline laydown area.
1980s – 1990s	In the 1980s, the line of ASTs previously noted along the southern property line is no longer visible. Warehouse-type structures are noted in the central portion of the subject property.

Time Period	Historical Discussion
	By 1994, the northern tank farm is no longer visible, and the number of ASTs in the southern tank farm has decreased. All other features previously noted are still visible on the subject property.
2000s – Present	By the 2000s, two pits are visible along the southeastern property line. Smokestacks/gas flares are no longer visible on the subject property. According to building permits issued in July 2024, a permit was submitted to demolish the former chemical laboratory and an office building (15,230 sf).

The subject property was first developed for oil and gas production in the 1920s. Due to the over 100 years of oil and gas related infrastructure, development, and production, the potential for petroleum related impacts to the subject property's subsurface is considered a REC.

Environmental concerns related to historical operations are discussed further in Section 3.3.

3.2 Regulatory Database Review

The subject property is identified on the Emergency Response Notification System (ERNS), Facility Index System (FINDS), Superfund Enterprise Management System Archive (SEMS-Archive), Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG), California Hazardous Material Incident Report System (CHMIRS), Integrated Compliance Information System (ICIS), Aerometric Information Retrieval System Facility Subsystem (US AIRS), Emission Inventory Data (EMI), Recovered Government Archive (RGA) Leaking Underground Storage Tank (LUST), Orange County LUST, California Environmental Reporting System (CERS) Hazardous Waste (Haz Waste), Hazardous Waste Tracking System (HWTS), Facility and Manifest Data (HAZNET), National Pollutant Discharge Elimination System (NPDES), California Integrated Water Quality System (CWIQS), CERS, Underground Storage Tank (UST), RGA Solid Waste Facilities List (LF), California (CA) Facility Inventory Database (FID) UST, Orange County Industrial Site, Toxic Substances Control Act (TSCA), Federal Insecticide, Fungicide, & Rodenticide Act / TSCA Tracking System (FTTS), Solid Waste Information System Active, Closed, and Inactive Landfills (SWF/LF), Cleanup Program Sites (CPS) Spills, Leaks, Investigations, and Cleanups (SLIC), Historical (HIST) UST, Hazardous Waste & Substances Sites List (CORTESE), UST Finder Release, RCRA Non-generators / No Longer Reporting (NonGen / NLR), Enforcement and Compliance History Information (ECHO), Underground Injection Control (UIC), and Per- and Polyfluorinated Substances (PFAS) ECHO databases. The environmental database report is attached as Appendix C.

The AST information is also discussed in Section 2.5.2.

Historical UST information is also discussed in Section 2.5.1.

RGA LUST, LUST, Orange County LUST, CORTESE, CA FID UST, UST FINDER RELEASE, RGA LF, UST:

According to permits, removal reports, and city permits, the following information was found for USTs on the subject property:

Tank #	Capacity (gallons)	Contents	Description	Installation Date	Removal Date
1	2,000	Stoddard solvent	Unlined, carbon-steel tank	Unknown	1989
2	5,000	Unleaded gasoline	Unlined, carbon-steel tank	Unknown	1988
3	7,500	Leaded gasoline	Unlined, carbon-steel tank	1972	1988
4	10,000	Stoddard solvent / lubricating oil	Unlined, carbon-steel tank	1974	1989
5	10,000	Unleaded gasoline / leaded gasoline	Unlined, carbon-steel tank	1974	1989
6	500	Stoddard	Unknown	Unknown	1989
7	1,000	Diesel	Unlined, carbon-steel tank	1975	1988
8	10,000	Unleaded gasoline	Fiberglass steel	1989	2001

*The RACC issued following the removal of Tanks 1 through 5 notes a 7,000-gallon leaded gasoline UST. However, in all prior documentation for Tanks 1 through 5, reference is only made to a 7,500-gallon tank and there is no mention of a different 7,000-gallon UST. It is believed that the volume of the leaded gasoline tank is incorrectly recorded in the RACC and the 7,000-gallon and 7,500-gallon USTs are in reference to the same tank.

According to GeoTracker and documentation obtained from the user, a RACC, dated 13 March 1997, was received by Cal Resources for the completion of the site investigation and remedial action for the underground storage tanks formerly located on the subject property. Historically, a fueling station was located in the central portion of the subject property near the maintenance building. The report notes five USTs (Tank Nos. 1-5 above) were removed between 1988 and 1989:

In response to confirmation sampling conducted after the removal of Tanks 1 – 5 between 1988 and 1989, total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX) were noted in the tank pit. Following the 1988 and 1989 removals, subsequent investigations were conducted and groundwater monitoring events were reported to the RGA LUST database in 1992, 1993, 1994, and 1995.

According to the 1997 RACC, following to removal of the USTs, soil was excavated to a depth of approximately 35 ft bgs. A total of 956 tons of impacted soil were removed and transported offsite. Concentrations of TPH in the gasoline range (gas), benzene, toluene, ethylbenzene, and xylene (BTEX), were characterized before and after the soil excavation. The table listed below presents the concentrations of constituents analyzed. A vapor extraction system was installed to remove TPH gas and BTEX from the soil and

groundwater. Between May 1993 to September 1995, approximately 22,300 pounds of TPH were removed. The RACC stated the remaining contamination left at the subject property presented no threat to drinking water, human health, or the environment.

The analyses found the following concentrations before and after soil excavation and the vapor extraction system:

1997 RACC Site Characterization

Constituent	Soil (ppm)		SFBRWQCB	Water (ppb)		SFBRWQCB
	Before	After	HHR/Protection of Groundwater ESL (mg/kg)	Before	After	HHR ESL (µg/L)
TPH gas	20,700	**3,700**	460	53,000	180	800
Benzene	22.5	**11**	0.025	3,800	ND*	1.0
Toluene	90.6	**240**	3.2	13,000	2.2	150
Xylene	399	**970**	2.1	29,000	3.8	190
Ethylbenzene	117	**180**	0.43	4,700	0.94	15

*Notes: No data (ND) – constituents were not detected above laboratory detection limits.

Residual soil concentrations following remedial actions exceed the current San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Human Health Risk (HHR) or protection of groundwater Environmental Screening Levels (ESLs). Investigations involving the residual soil contamination are discussed in Section 3.3.

As previously discussed in Section 2.5.1, a 1989 OCHCA UST removal permit noted a 500-gallon Stoddard solvent UST north of the Crude Oil Storage and Produced Water Filtration and Re-Injection area. Additionally, according to a SWRCB Hazardous Substance Storage Container Information for Orange County document, a 1,000-gallon diesel UST was formerly located at the subject property and removed in 1989. No further records or information were available to verify the existence of these UST. Subsurface investigations and geophysical surveys conducted between 2024 and 2025 in suspected areas did not indicate the presence of either of these two USTs (see Section 3.3).

ERNS: The subject property is listed in the ERNS database for hazardous substance releases. The known hazardous substance releases on the subject property were used in our determination of REC-3. The releases are detailed in the list below.

- **1987:** Shell Oil, July – approximately one barrel of produced water was released. The potential media affected, and cleanup reports were not available for review.

  Shell, September – a well blowout occurred which released approximately 15 gallons of crude oil. Additional information regarding the media affected and cleanup reports were not available for review.

Shell Western, October – a three-inch production line released approximately 25 gallons of produced water. The potential media effected was not listed in the database report. Langan was unable to locate cleanup reports for review.

Shell Oil, October – a flowline leaked releasing approximately one gallon of produced water onto the soil. Cleanup reports were not available for review.

- **1998:** AERA Energy, February – sheen was discovered during the transport of stormwater from one area on the subject property to another. An estimated two gallons of crude oil was in the stormwater. Additional information regarding the spill and potential media effected was not available for review. According to the database report, clean-up crews went on the subject property was vacuum trucks and booms to contain the spill. Langan was unable to locate cleanup reports for review.

  October – a two-inch gas line developed a leak, spilling approximately one quart of gasoline condensate into a drainage ditch which also affected the surface water. According to the database report, the release was secured, and the impacted soil was removed. Information pertaining to the release into water was not available for review.

  AERA Energy, November – a pin hole leak was discovered in an aboveground piping valve releasing approximately two barrels of crude oil and five barrels of produced water. According to the database report, the material was released into a dry drainage ditch and water was potentially affected. Langan was unable to locate cleanup reports for review.

  AERA Energy, November – approximately one-quart of gasoline condensate was release. The potential media affected was not listed in the database report. Langan was unable to locate cleanup reports for review.

- **2000:**

  AERA Energy, October – a two-inch oil well flowline released approximately one quart of crude oil. The potential media affected was described as "land." Cleanup reports were not available for review.

- **2020:** SoCal Holding, April – an equipment failure resulted in a release of approximately one-ounce of crude oil which resulted in a 10-foot by 10-foot sheen in a wet well. Cleanup reports were not available for review.

The releases discussed below were identified in the Bolsas, an area north and northeast and hydraulically upgradient of the subject property. These releases have the potential to impact underlying groundwater, which may migrate onto the subject property. The upgradient location and potential for groundwater migration is considered a REC. The Bolsas are not part of the 92-acre subject property.

- **1997**: AERA Energy, October – three-inch production line released approximately 90 gallons of produced water and 10 gallons of crude oil into the soil and dry waterbed. Langan was unable to locate cleanup reports for review.

  AERA Energy, December – residual oil from an earlier release washed onto the bank of a Bolsa Chica wet cell. According to the database report, approximately two gallons of crude oil stained an approximately 10-foot by 10-foot area on the shoreline and was excavated. Langan was unable to locate cleanup reports for review.

- **1998**: AERA Energy, January – a three-inch flowline released approximately one gallon of produced water and one pint of crude oil into the Bolsa Chica wetlands. According to the database report, a sheen was observed in the stormwater and sorbent pads were used to soak up oil and water. Cleanup reports were not available for review.

  AERA Energy, February – a dirt berm containment wall was breached due to bad weather releasing 1 gallon of crude oil into the Bolsa Chica wetlands. According to the database report, the berm was repaired by hand. Langan was unable to locate cleanup reports for review.

  AERA Energy, May – an oil well cellar overflowed releasing approximately one barrel of crude oil into the soil and five gallons of crude oil into the water. According to the database report, oil leaked through gopher holes into dry wetland areas. Langan was unable to locate cleanup reports for review.

- **1999:** AERA Energy, October – an underground pipeline released approximately five barrels of crude oil into soil. According to the database report, oil affected a habitat for a protected animal species. Langan was unable to locate cleanup reports for review.

- **2000**: AERA Energy, January – a leak in an underground crude oil gathering line released an unknown amount of produced water into a dry wetland area. According to the database report, an approximately 20-foot by 20-foot area was affected. Cleanup reports were not available for review.

  AERA Energy, June – a leak in a two-inch flow line was discovered releasing approximately one barrel of crude oil into the dry wetlands. Product was removed by hand, though no cleanup reports were provided.

  AERA Energy, July – a six-inch gathering line released approximately 10 barrels of produced water and five barrels of crude oil into the Bolsa Chica wetlands. According to the database report, product was recovered by vacuum truck and the spill was secured. Cleanup reports were not available for review.

  AERA Energy, July – an eight-inch gathering line released approximately 20 gallons of crude oil and 20 gallons of produced water into the Bolsa Chica dry waterway. According to the database report, the release was immediately stopped, and a shovel was used to clean up the affected soil. Langan was unable to locate cleanup reports for review.

  AERA Energy, September – three-inch flow line gaskets released approximately 10 gallons of crude oil and 80 gallons of produced water. The incident was described to have affected the water of the Bolsa Chica wetlands. Cleanup reports were not available.

  AERA Energy, September – a four-inch gathering line released approximately 20 gallons of produced water, two gallons of oil, and two gallons of crude oil into the Bolsa Chica wetlands. Langan was unable to locate cleanup reports for review.

- **2001:** AERA Energy, April – while removing an idle pipeline, approximately four ounces of crude oil were released into the Bolsa Chica wetlands. According to the database report, the spilled material was immediately cleaned up with sorbent pads. Cleanup reports were not available for review.

CHMIRS: The CHMIRS database reports information on hazardous materials (i.e., hazardous substance) incidents, including chemical releases, spills, and accidents that occur during the use, storage, or transportation of hazardous substances. The releases discussed below were documented on the subject property and may have potentially impacted underlying soil, soil vapor, or groundwater; therefore, the following documented releases are considered a REC:

- **1998**: AERA Energy, January – approximately one pint of crude oil was released due to skimmed overflow. Langan was unable to locate cleanup reports for review.
- **1999**: AERA Energy, February – according to the database report, approximately five barrels of crude oil was released from four-inch pipeline on separator while removing the solids screen. The release was reportedly contained on the facility. Langan was unable to locate cleanup reports for review.

  AERA Energy, June – a pressure valve malfunction resulting in 20 barrels of crude oil released. The potential media affected was not listed. Langan was unable to locate cleanup reports for review.

  AERA Energy, December – a pinhole leak in a four-inch gathering line resulted in a release of one gallon of crude oil. According to the database report, the release went into a dry area of a wet cell and was isolated and contained. Langan was unable to locate cleanup reports for review.
- **2001**: AERA Energy, July – five barrels of crude oil was released from a leak in a four-inch pipeline. According to the database report, the release did not occur on the wetlands area. Langan was unable to locate cleanup reports for review.
- **2002**: AERA Energy, July – 10 gallons of an unknown substance was released. According to the database report, the release occurred due to vandalism on the well. Information on the substance type or potential media affected was not available. Langan was unable to locate cleanup reports for review.
- **2003**: AERA Energy, November – a leak an oilfield production line resulted in the release of five barrels of crude oil. According to the database report, the release was contained on the subject property. Langan was unable to locate cleanup reports for review.
- **2008**: AERA Energy, April – a three-inch gathering line was corroded and released approximately two quarts of crude oil onto the ground. The potential media affected was not listed in the database report. Langan was unable to locate cleanup reports for review.
- **2017**: California Resources Production Company, April – an unlisted amount of petroleum, produced water, and crude oil was released from a pipeline. According to the database report, "The release origin is unknown, but it is contained to the pipe chase. The release has been stopped with no threats to life, property, or environment. The release did not enter a storm drain or waterway. The release will be mitigated by an undetermined contractor." Langan was unable to locate cleanup reports for review.
- **2020**: April – according to the database report, approximately one ounce of crude oil was released into an adjacent wet cell creating a 10-foot by 10-foot sheen. The release was contained in the wet cell. Langan was unable to locate cleanup reports for review.

- **2023**: SoCal Holding, May – a produced water line leak caused a release of five barrels of produced water and two gallons of crude oil onto the roadway. The spill was reportedly stopped and contained and cleaned up by the reporting party. Langan was unable to locate cleanup reports for review.

The releases discussed below were identified in the Bolsas, an area north and northeast and hydraulically upgradient of the subject property. These releases have the potential to impact underlying groundwater, which may migrate onto the subject property. The upgradient location and potential for groundwater migration is considered a REC.:

- **1994**: Shell Western E&P, April – mechanical failure of a booster pump resulted in the release of 10 gallons of crude oil and 20 gallons of produced water into the Bolsa Chica bird sanctuary. Langan was unable to locate cleanup reports for review.
- **1995**: September – a flowline leak released approximately 10 gallons of crude oil and 500 gallons of produced water into the Bolsa Chica wetlands. Langan was unable to locate cleanup reports for review.
- **1998**: March – according to the database report, a "form of acid has gotten into a ditch and has gotten into the Bolsa Chica Wetlands." The type and quantity of acid is unknown. Langan was unable to locate cleanup reports for review.
- **1999**: AERA Energy, February – during a stormwater transfer event, approximately two gallons of crude oil was released into the Bolsa Chica wetlands. Langan was unable to locate cleanup reports for review.
- **2000**: AERA Energy, September – a flange leak from a two-inch test line caused the release of two barrels of crude oil onto the subject property. According to the database report, the release did not occur on soil and was no threat to the Bolsa Chica wetlands. Langan was unable to locate cleanup reports for review.
- **2001**: AERA Energy, July – according to the database report, an operator error associated with a pipeline cleaning caused the release of approximately 20 gallons of crude oil into the Bolsa Chica wetlands. Langan was unable to locate cleanup reports for review.

  AERA Energy, November – five gallons of produced water was released into the Bolsa Chica wetlands waterway. According to the database report, a leak developed in a buried water injection pipeline, the pipeline was shut down and the leak was stopped. Langan was unable to locate cleanup reports for review.
- **2006**: AERA Energy, August – approximately two quarts of crude oil was released onto the soil of the wetlands. Langan was unable to locate cleanup reports for review.

TSCA: AERA Energy LLC is listed as a natural gas manufacturer from 1986 to 2002.

FTTS, HIST FTTS: The subject property was listed in the FTTS/HIST FTTS database for a violation in 1989 pertaining to Section 6 Polychlorinated Biphenyl (PCB). Langan was unable to locate additional information pertaining to these listings. Subsurface investigations were conducted by Langan in 2025 to evaluate potential areas of concern for PCBs, and the results indicated that no PCBs were detected.

RCRA-SQG, CERS HAZ WASTE, HWTS, CERS, HAZNET: Historical waste manifests are included in Appendix D. Historical waste manifests primarily include non-RCRA hazardous waste;

however, RCRA hazardous waste was also noted. Asbestos containing waste is noted on manifests from the 2010's. According to interviews conducted during the site reconnaissance, transite piping was removed from the subject property during this time. Additionally, PCBs were noted on the waste manifests in 1996, 2002, 2003, 2006, 2007, 2008, and 2010. A total of approximately 16-tons was generated between those years. Subsurface investigations were conducted by Langan in 2025 to evaluate potential areas of concern for PCBs, and the results indicated that no PCBs were detected.

Between 1998 and 2016, waste manifests noted: arsenic, barium, cadmium, chromium, lead, and mercury. The combined quantity of mercury, barium, cadmium, chromium, and arsenic generated during this period was less than one ton in total. During this same time period, lead waste totaled 44.3-tons, with the majority (42.7 tons) generated in 2006. Sandblasting was noted on the 2006 hazardous waste manifest, and it is likely the lead was from lead-based paint removal.

A search of the DTSC HWTS database for the EPA ID currently associated with the subject property (CAD981443807) identified numerous other hazardous waste disposals. Notable non-RCRA hazardous waste code descriptions included, but were not limited to, alkaline solutions, aqueous solutions, organic and inorganic solid, halogenated solvents, hydrocarbon solvents, waste and mixed oil, latex waste, sulfur sludge, laboratory waste chemicals, and liquids with either mercury, halogenated solvents, metals, or pH less than two. RCRA hazardous waste codes descriptions were predominately ignitable and corrosive, but also included several metals, benzene, methyl ethyl ketone, halogenated solvents, non-halogenated solvents, sodium cyanide, and phenol. These listings were noted from 1993 (earliest year included in the DTSC HWTS database) to the present. The current EPA ID number for the subject property has also been utilized for other hazardous waste disposals not associated with the subject property (e.g. Bolsas, Fort Apache). Previously listed waste code descriptions likely include waste not originating from the subject property.

The subject property is listed as a crude petroleum and natural gas extraction facility. The subject property has CERS violations pertaining to administrative matters such as, failure to annually certify that their business plan is complete.

Current hazardous waste generation information is discussed in Section 2.7.1.

SEMS-ARCHIVE: Aminoil Bolsa Chica is listed in the SEMS-ARCHIVE database under EPA ID: CAD042137307. Langan was unable to locate additional information pertaining to the EPA ID number. According to the database report, the subject property was listed in as a potential SEMS site in 1979. In 1988, the EPA determined the subject property does not qualify for the National Priorities List (NPL) and was archived. Superfund site information available from the EPA website describes the location as "Bolsa Chica Wetlands" with an address of "SE ¼ Sec 34 T5S R11W SBBM".Langan was unable to locate additional reports pertaining to the database listing. The Aminoil Bolsa Chica listing likely pertains to the Bolsas property located to the north and northeast of the subject property. Due to the lack of documentation indicating the listing is associated with the subject property, this listing is not an environmental concern.

UIC: According to CalGEM, there are 24 active UICs and 73 plugged and idle UICs.

NPDES, CIWQS: These database listings pertain to stormwater generation and management. Current stormwater information is discussed in Section 2.9.

FINDS, US AIRS, EMI, ICIS, TSCA: These listings pertain to air emissions from the subject property. Current air emissions at the subject property are discussed further in Section 2.6.

ECHO, PFAS ECHO: No violations or notices to comply were included in either database. The PFAS ECHO database is a listing of sites complied by the USEPA that may be using PFAS. The subject property is included in this database as an oil and gas facility and an airport.

3.3 Prior Report Review

Langan was provided with prior reports related to UST closures, discussed in Section 3.2. Langan conducted soil and soil vapor investigations for the site in 2024 and 2025. The reports are referenced in Section 7 and summarized below.

Soil Removal Report, California Resources Corporation, Huntington Beach Facility, 20101 Goldenwest Street, Huntington Beach, 8 August 2025, conducted by Langan CA, Inc.:

During soil investigations in the fourth quarter of 2024, shallow soil samples collected around the Former Stretford Unit contained concentrations exceeding selected screening levels. Shallow soil samples (between 0.5 and 1.5 ft bgs) five out of eight borings from this area contained concentrations of vanadium and cadmium exceeding SFBRWQCB or DTSC screening levels and California hazardous waste levels. Concentrations of gasoline and diesel range petroleum hydrocarbons, naphthalene, 1-methlynapthelene, and 2-methylnapthelene also exceeded SFBRWQCB and DTSC screening levels. To complete demolition of the Former Stretford Unit, the remaining concrete and visibly impacted underlying soil was removed.

During a separate soil investigation conducted in January 2025, Langan detected lead concentrations exceeding California hazardous waste thresholds in one boring in the southern historical tank farm (Soil Boring 143). In addition to lead, the shallow soil from this boring at two ft bgs also contained concentrations of diesel range petroleum hydrocarbons, naphthalene, and 1-methylnapthalene exceeding SFBRWQCB or DTSC screening levels. Removal of the soil around boring SB143 was also included to remove the isolated California hazardous lead.

Demolition and soil removal activities were completed in June and July 2025. Areas of approximately 3,660 square-feet (sf) and 130 sf were excavated in the Former Stretford Unit and soil boring SB143 areas, respectively. The depth of soil removal was determined by field screening to remove underlying soil that could constitute a hazardous waste. The depth of excavations were up to two ft bgs with the exception of a portion of the SB143 area where a subsurface concrete feature stopped excavation at eight inches bgs and a 25-sf area in the Former Stretford Unit Area where the excavation was extended to 4.5 ft bgs. Approximately 102 cubic yards (CY) of concrete and 172 CY of soil were removed from the Former Stretford Unit Area; approximately two CY of asphalt and six CY of soil were removed from the SB143 area. Confirmation sampling analytical results verified that soil constituting a hazardous waste was removed from these areas during the demolition activities. Confirmation samples were also collected for TPH, VOC, and SVOC analytes that were not the drivers of soil removal but were identified above selected screening

levels. Only concentrations of diesel range TPH and naphthalene were identified above selected screening levels in the final confirmation samples.

Second Supplemental Soil and Soil Vapor Investigation Report, Huntington Beach Facility, 20101 Goldenwest Street, Huntington Beach, 3 July 2025, conducted by Langan CA, Inc.:

Langan conducted a soil investigation for the subject property between April and June 2025 as a continuation of prior investigations conducted between November and December 2024 and January to February 2025. Areas investigated included: Northwest Historical Tanks, Pipe Laydown Area, Maintenance and Truck Wash Buildings, Former UST Area, Electromagnetic Anomaly, Chemical Storage Area, Historical Bermed Area, Former Chemical Laboratory, Southern Historical Tank Farm, Southern Historical Sumps, and Southern Historical Tank Battery. The geophysical survey did not identify any new subsurface lines or anomalies not encountered during prior investigations. Soil samples were tested for metals, TPH, VOCs, and SVOCs, and compared to the SFBRWQCB ESLs (July 2025), DTSC Human Health Risk Assessment (HHRA) Note Number 3 DTSC-modified Screening Levels (DTSC-SLs) (June 2020-Revised April 2025), USEPA Regional Screening Levels (RSLs) (November 2024), and DTSC HHRA Note Number 11 Southern California Ambient Arsenic Screening Level (December 2020).

The follow main conclusions from the investigation are below:

- In general, concentrations exceeding screening levels in soil are contained within the upper five feet of soil.
- Soil borings have been advanced in or adjacent to all EM and GPR anomalies identified at the subject property.
- Only two locations at the site have not been vertically delineated for constituents other than arsenic and TBA; three borings within the Former Bermed Area (SB102/SB102A, SB173, and SB174) and one boring within the Southern Historical Tank Area (SB119A/SB119B). While not delineated, the lowest concentrations in the three Former Bermed Area are lowest in the deepest samples collected, between 15 and 30 feet bgs. Decreasing soil concentrations with increasing depth, where sources originated at the ground surface, indicate limited vertical migration of impacts. SB119A/SB119B could not be delineated due to refusal as the result of an apparent abandoned liner encountered at 17 feet bgs.
- There are five borings not vertically delineated for arsenic; these borings where not advanced for the delineation of arsenic by design. There are 13 borings not vertically delineated for TBA; this is the result of an order in magnitude change in the SFB RWQCB protection of groundwater screening used to scope the investigation versus the updated level used to evaluate the analytical data.
- Groundwater was not encountered in the deepest borings advanced during this investigation (30 feet bgs) and prior environmental investigations (35 feet bgs).
- Three areas have been identified to contain metal concentrations exceeding California hazardous waste levels. These areas included the Former Stretford Unit (soil borings SB2, SB4, SB5, SB6 and SB8), soil borings SB78 and SB170 in the Truck Wash and Maintenance Buildings Area, and soil boring SB143 in the

Southern Historical Tank Farm. All three areas have been vertically and laterally delineated.

- Of the 203 environmental borings advanced to date at the subject property, there are 25 borings that have not been completely laterally delineated to below site-specific screening levels (excluding borings adjacent to site operations or boundaries). Relevant analyte concentrations in 13 of these borings were below the Sitewide 95 percent UCLs. As concentrations in the other 12 borings exceeded screening levels and the UCL, further delineation may be warranted once additional portions of the subject property become accessible. Nonetheless, site investigations have thoroughly covered accessible portions of the subject property where historical operations posing a potential environmental risk are known to have occurred. Given that oilfield operations have occurred since the 1920s, subsurface soil concentrations exceeding screening levels may be present in areas yet sampled.
- Subject property soil screening levels were selected based on the most conservative level available from a selection of potentially applicable guidance. As future use of the subject property becomes more evident, the screening levels may be adjusted to those more applicable to specific areas.
- Concentrations of VOCs in soil vapor probes were above screening levels in all locations with the exception of SV08 in the Former Bermed Area. Several of the VOCs included halogenated compounds that have either not been or only anomalously been detected in soil samples (chloroform, methylene chloride, PCE, and vinyl chloride). The other VOCs above screening levels, benzene and ethylbenzene, have been detected to a greater extent, but are still not commonly identified in soil samples and are less prevalent than several other VOCs at the site.
- Concentrations of methane in soil vapor probes were in the passive system mitigation requirement range in all probes with the exception of SV07 and SV10, located in the Truck Wash and Maintenance Buildings and Southern Historical Tank Farm Areas, respectively. These two soil vapor probes contained concentrations of methane in the active system mitigation requirement range.
- Concentrations of VOCs and methane nearest the onsite buildings do not suggest a health risk to site occupants is present.

The detections of metals, TPH, VOCs, SVOCs, and PAHs exceeding the selected screening levels during the subsurface investigations on the subject property are considered a REC.

First Supplemental Investigation Report, Huntington Beach Facility, 2101 Goldenwest Street, Huntington Beach, 24 March 2025, conducted by Langan CA, Inc.:

Langan conducted a soil investigation for the subject property between January and February 2025 as a continuation of prior soil investigation efforts. The areas investigated included: Northwest Historical Tanks, Pipe Laydown, Maintenance and Truck Wash Buildings, Former UST, Electromagnetic Anomaly, Chemical Storage, Historical Bermed, Southern Historical Tank Farm, Southern Historical Sumps, and Southern Historical Tank Battery Areas. The geophysical survey identified 15 candidate electromagnetic (EM)

anomalies, and numerous active utilities and unidentified lines in the surveyed areas. The investigation report noted that while findings of candidate EM anomalies is suggestive of the presence subsurface features, more direct methods are required to confirm findings.

Soil samples were tested for metals, TPH, VOCs, and SVOCs and compared to the SFBRWQCB ESLs, DTSC HHRA Note Number 3 DTSC-SLs, USEPA RSLs, Federal and State Hazardous Waste Characteristics of Toxicity Levels (§66261.24) and DTSC HHRA Note Number 11 Southern California Ambient Arsenic Screening Level.

The following main conclusions from the investigation are below:

- Fifteen electromagnetic anomalies were identified, three of which contained or were immediately adjacent to soil borings.
- In general, concentrations exceeding screening levels in soil are contained within the upper five feet of soil.
- There are exceptions where concentrations extend beyond five feet bgs, including 12 boring locations where screening level exceedances are not vertically defined. The majority of these borings exhibited decreasing concentrations with depth, indicating that the impacts are likely confined to shallow subsurface zones.
- Groundwater was not encountered in the deepest borings advanced during this investigation (35 feet bgs).
- Several of the investigated areas contain soil borings where screening level exceedances are not laterally defined.
- With the exception of TBA, soil borings in the former UST area delineated residual soil concentrations exceeding screening levels as the result of the former UST release.
- Two borings with soil concentrations exceeding California hazardous waste levels were identified.
- Further investigation can be conducted to investigate remaining electromagnetic anomalies, borings not vertically defined, borings not laterally defined, and borings with hazardous waste levels. Further investigation is prohibited by facility operations in some of these areas.

The detections of metals, TPH, VOCs, SVOCs, and PAHs exceeding the selected ESLs during the subsurface investigations on the subject property are considered a REC.

Initial Soil Investigation Report, California Resources Corporation, Huntington Beach Facility, 20101 Goldenwest Street, Huntington Beach, 31 December 2024, conducted by Langan CA, Inc.:

Langan conducted the soil investigation between November 2024 and December 2024 to address potential environmental concerns associated the subject property. Of the areas of potential environmental concern identified, the Northern Historical Tank Farm area, the Former Stretford Unit area, the Transformer Storage Area, and the Former Chemical Laboratory area were investigated. Geophysical surveys were also conducted Central Site Buildings and Historical Southern Sumps Area. Geophysical surveys did not identify any significant subsurface anomalies in the Former Stretford Unit Area and the Transformer Storage Area. Three subsurface anomalies, one of which resulted from a septic tank,

were identified at the Former Chemical Laboratory Area, and several subsurface anomalies suggestive of abandoned oil wells were identified at the Northern Historical Tank Farm. Several subsurface anomalies were identified in two remaining areas planned for future investigation: the Historical Southern Sumps and the Central Site Buildings.

Soil samples were tested for metals, TPH, PCBs, VOCs, and SVOCs and compared to the SFBRWQCB ESLs, DTSC HHRA Note Number 3 DTSC-SLs, USEPA RSLs, Federal and State Hazardous Waste Characteristics of Toxicity Levels (§66261.24) and DTSC HHRA Note Number 11 Southern California Ambient Arsenic Screening Level.

The follow conclusions were made at each identified area of concern:

- Former Stretford Unit Area: Vanadium exceeded screening levels in five borings. Soluble concentrations of vanadium or cadmium in the five borings exceeded California hazardous waste levels but were below Federal hazardous waste levels. Three borings also contained soil concentrations or method detection limits of TPH, VOCs, and SVOCs/PAHs exceeding screening levels. Metal concentrations exceeding screening levels were delineated to the upper 1.5 ft bgs of soil; TPH, VOC, and SVOC/PAH concentrations exceeding screening levels were delineated to the upper two ft bgs of soil. Borings with exceedances are laterally delineated to the northwest and northeast.
- Transformer Storage Area: None of the analyzed samples contained any concentrations of PCBs over detection limits. One boring contained soil concentrations of TPH, VOCs, and SVOCs/PAHs exceeding screening levels. The impact in this single boring was delineated to the upper 0.5 ft bgs of soil.
- Former Chemical Laboratory Area: Arsenic exceeded background levels in one boring, barium exceeded screening levels in two borings, TPH concentrations exceeded screening levels in five borings, VOC concentrations exceeded screening levels in two borings, and SVOC/PAH concentrations exceeded screening levels in two borings. Metal concentrations exceeding screening levels were delineated to the upper 0.5 ft bgs of soil; TPH and VOC concentrations/method detection limits exceeding screening levels were delineated to the upper two ft bgs of soil; SVOC/PAH concentrations exceeding screening levels were delineated to the upper five ft bgs of soil.
- Northern Historical Tank Farm Area: Arsenic exceeded ambient levels in one boring. TPH concentrations exceeded screening levels in eight borings. VOC and SVOC/PAH concentrations exceeded screening levels in 12 borings. Metal, TPH, and SVOC/PAH concentrations exceeding screening levels were delineated to the upper two ft bgs of soil. VOCs concentrations were also delineated to the upper 15 feet bgs. Borings with exceedances were laterally delineated with the exception of three borings to the northeast and one boring to the southwest.

The detections of metals, TPH, VOCs, SVOCs, and PAHs exceeding the selected ESLs during the subsurface investigations on the subject property are considered a REC.

4. ADJOINING PROPERTIES AND SURROUNDING AREA

The following sections describe current and historical uses of and database listings for adjoining properties and the surrounding area.

4.1 Current Use of Adjoining Properties and Surrounding Area

The current use of adjoining and surrounding properties is summarized in Table 4-1.

Table 4-1 Current Use of Adjoining Properties and Surrounding Area

Direction	Adjoining Properties	Surrounding Area
North	Helipad followed by the Bolsa Chica Wetlands and oil field.	Bolsa Chica Wetlands and oil field followed by residences.
East	Residential dwellings.	Residential dwellings.
South / Southwest	Pacific Coast Highway followed by Huntington Beach (Pacific Ocean)	Pacific Ocean
Southeast	Goldenwest Street followed by residential dwellings.	Residential dwellings.
West / Northwest	Well cellars and oil and gas infrastructure.	Bolsa Chica Tidal Inlet followed by Bolsa Chica Wetlands.

Langan did not observe obvious conditions likely to represent environmental concerns for the subject property from current uses of adjoining or surrounding properties.

4.2 Adjoining Properties and Surrounding Area History

Langan compiled the following summaries of the adjoining properties and surrounding area history based on a review of historical resources and interviews. Historical resources are provided in Appendix E.

Table 4-2 Historical Use of Adjoining Properties

Direction	Adjoining Properties
North	The northern adjoining property is depicted as wetlands on the 1896 topographic map. Between the 1928 and 1938 aerial photographs, the property was undeveloped or vacant. By the 1947 aerial photograph, ASTs and structures are visible. An oil field is visible north of the ASTs in 1963 that remain to present-day. By 1994, ASTs and structures are no longer visible and concrete foundations are noted north of the previous AST farm. By 2002, the property appears to be in its general configuration.
East	The eastern adjoining property is depicted as Las Bolsas and undeveloped land in the 1896 topographic map. Between the 1928 and 1977 aerial photography, the property is developed with oil derricks in the central and southern portions. ASTs are visible extending from the subject property along the southern portion of the property that remain from 1928 to 1953. The northern portion of the property is vacant land until 1947. Between 1953 to 1977, surface features indicative of oil and gas activity are visible in the northern portion of the property. By 1988, residential development is noted in the central portion of the property the remains to present-day. The northern and southern portions appear to still be used for oil and gas production between 1988 and 1994. By 2002, the northern and southern portions are developed for residential use that remain to present-day. Database listings associated with the eastern adjoining property are discussed in Section 4.3.

Direction	Adjoining Properties
Southeast	The southeastern adjoining property is depicted as undeveloped on topographic maps in 1896. By 1928, the property was developed with oil derricks which remained on the property until residential development was first noted in 1994. By 2002, the property was in its present-day configuration of residential dwellings. Database listings associated with the southeastern adjoining property are discussed in Section 4.3.
South / Southwest	The south and southwestern adjoining properties are depicted as undeveloped on 1896 topographic maps. By 1928, Pacific Coast Highway is visible along the subject property boundary followed by oil derricks and the beach. The oil derricks are visible until 1947. By 1953, the property appears to be in its general present-day configuration of sandy beach.
West / Northwest	The west and northwest adjoining properties are depicted as undeveloped on 1896 topographic maps. Between 1928 and 1947, a surface feature is visible indicative of an oil well. By 1953, well cellars, ASTs, and a pipeline corridor are visible. By 1977, ASTs are no longer visible on the property and the property appears to be in its general configuration of well cellars and a pipeline corridor.

The surrounding area was depicted as undeveloped in the topographic maps in 1896. Aerial photographs from the mid-1930s, note oil and gas infrastructure throughout the surrounding area until the late 1960s. By 1977, residential development is first visible to the east of the subject property. In the subsequent years, increased residential development is visible to the east and southeast of the subject property until 2005 when the area appears to be in its present-day general configuration.

Langan considers the historical oil and gas use of the adjoining properties and surrounding area a REC due to the potential for impacts to have migrated onto the subject property.

4.3 Regulatory Database Review

Langan reviewed the environmental database report to evaluate if adjoining or surrounding area properties identified in the database report could represent an environmental concern for the subject property (see Section 8.2). Langan did not consider additional review of the associated regulatory agency files necessary to evaluate potential RECs for the subject property unless discussed in Section 4.3.1 or 4.3.2 below.

4.3.1 Adjoining Properties

Database listings for adjoining properties are summarized as follows.

Ross Island Sand and Gravel Co – 19499 Seapoint Street (inferred cross gradient)

Ross Island Sand and Gravel Co is listed in the HWTS and HAZNET databases in 2006 under EPA ID: CAC002600878 for the generation of approximately 3.04 tons of non-RCRA hazardous waste. The waste is generally characterized as waste oil and mixed oil. Due to the type and amount of waste generated, this listing is not an environmental concern in connection with the subject property.

Kewit Pacific – 19499 Seapoint Street (inferred up-gradient)

Kewit Pacific is listed in the HWTS and HAZNET databases in 2005 under EPA ID: CAC002583494 for the generation of approximately 1.8 tons of non-RCRA hazardous waste. The waste is

generally characterized as unspecified oil-containing waste and other organic solids. Due to the type and amount of waste generated, this listing is not an environmental concern in connection with the subject property.

Fish & Wildlife – 19499 Seapoint Street (inferred up-gradient)

Fish & Wildlife is listed in the HWTS database between 2004 and 2005 under EPA ID: CAC002584677. There are no waste manifests listed in the database or records of environmental spills or releases associated with the database listings; therefore, the listing is not an environmental concern associated with the subject property.

Bolsa Chica Lowlands Restoration Project – 19499 Seapoint Avenue (north of the subject property, inferred up-gradient)

Bolsa Chica Lowlands Restoration Project is listed in the NPDES and CIWQS databases. According to the RWQCB Stormwater Multiple Application and Report Tracking System (SMARTS), a stormwater permit was submitted for construction in 2005 and was terminated in 2006. According to historical imagery, the area to the north of the subject property has been in its current configuration since the 1940s. This listing appears to be erroneous and is not considered an environmental concern in connection with the subject property.

BP Andreea Moyes – 6032 Panorama Drive (approximately 0.04-miles east of the subject property, inferred up-gradient)

BP Andreea Moyes is listed in the Historical Auto database as a gasoline service station between 2010 and 2014. Historical imagery for this area notes residential dwellings since the late 1980s. Due to the historical imagery, this listing appears to be erroneous and therefore not an environmental concern in connection with the subject property.

Aera Energy LLC, F V Group LLC Property – southeast corner of the Pacific Coast Highway and Goldenwest Street intersection (approximately 116-feet southeast of the subject property, inferred down-gradient)

Aera Energy and F V Group LLC Property are listed in the CPS-SLIC, Orange Co. Industrial Site, and CERS databases. The facilities were listed as having PCB contamination and underwent remediation activities between 1998 and 1999. According to a 1999 RWQCB Closure Report, impacted soil was removed from the site and characterized in accordance with the Orange County Health Care Agency (OCHCA) approved Remedial Action Plan. The facility received a No Further Action (NFA) letter from the RWQCB in 1999. According to historical imagery, the facility was developed with residential dwelling by 2002. Due to the down-gradient location, NFA, and redevelopment of the site, this facility does not appear to be an environmental concern in connection with the subject property.

4.3.2 Surrounding Area

Langan evaluated each of the database listings for surrounding area properties (see Section 8.2) and determined that the listings are not of environmental concern in connection with the subject property.

5. CONCLUSIONS, FINDINGS AND OPINIONS

Langan completed a Phase I ESA consistent with the scope and limitations of ASTM E1527-21 for the subject property at 20101 Goldenwest Street, Huntington Beach, California. Exceptions to, or deletions from, ASTM E1527-21 are described in Section 8 of this report.

This assessment has revealed the following RECs, CRECs, HRECs, de minimis conditions, and significant data gaps in connection with the subject property as presented in Table 5-1.

Table 5-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
REC-1: Current and Historical Oil and Gas Production Infrastructure on the Subject Property: Records from CalGEM indicate the first oil well on the subject property was spudded in 1920. Historical aerial photographs from the 1920s through the 1990s note pits, tank farms, large-capacity aboveground storage tanks (ASTs), oil and gas wells, and other infrastructure associated with the production of oil and gas. Sumps were visible from the 1920s until the 1950s and, according to interviews, were reportedly filled with undocumented material. The sumps and pits were historically used for the storage of drilling muds, produced water, and oil and gas condensates, and are considered potential sources of subsurface impacts. Currently, some pits are used to collect stormwater, which is combined with produced water and reinjected into the subsurface reservoirs. ASTs have been on the subject property, prior to the implementation of federal secondary containment requirements. These ASTs were likely placed directly on soil without containment, increasing the potential for historical releases. According to CalGEM, the property currently contains 92 active, 142 idle, and 419 plugged and abandoned wells. Apparent petroleum residue was observed within the well cellars of active and idle wells. Additionally, previously plugged and abandoned wells are located on the subject property. Based on the historical use of pits and sumps, undocumented fill, the operation of ASTs without secondary containment, and the potential for releases from oil and gas wells, the potential for hazardous substance releases to the subsurface is considered a REC.
REC-2: Pipeline Chases: The subject property is bisected northwest–southeast by two pipeline chases. The northern chase (Chase 1) was first visible on the 1947 aerial photograph and, according to site observations and interviews, is suspected to be unlined. Apparent tar and petroleum impacts were observed in Chase 1. Pipelines within this chase transmit oil and gas from the State Lease and Bolsas Oil Fields into on-site ASTs. The southern chase (Chase 2) was first visible on the 1953 aerial photograph and is currently lined with concrete; however, large sections of the lining are cracked or missing. The installation date of the concrete lining is unknown. Pipelines within this chase transport oil and gas from Platform Emmy and on-site wells into on-site ASTs. According to interviews, the chases are also used for spill containment when necessary. Due to the historically unlined condition of Chase 1 and the current concrete condition of Chase 2Chase 2, there is potential for petroleum to impact the underlying surface. Therefore, Chase 1 and Chase 2 are considered a REC.
REC-3: Documented Spills and Releases and Site Reconnaissance Observations: During the historical review, a pipeline laydown area was first identified in the 1947 aerial photograph,

ASTM E1527-21 Scope Items
northwest of the Main Office and remains in use. According to interviews, used pipelines are staged here for inspection prior to reuse or recycling, and may remain for several weeks to several months. During the site reconnaissance, oil was observed seeping from pipelines, and oily staining was noted throughout the laydown area soils. Additional oily staining was observed on soils and cracked concrete in multiple areas across the property. Northwest of the laydown area, a chemical storage area for Platform Emmy contained pallets and totes of drilling lubricant. Containers were leaking onto the soil, and an approximately 500-square-foot (sf) oily stain with associated odor was observed. The main chemical storage area, southeast of the Main Office, contained 55-gallon metal drums of motor oil, all stored on wooden pallets and within secondary containment. The drums appeared intact; however, water with floating oil was present within the containment. A tote was observed releasing diesel exhaust fluid. Additional totes of scale and corrosion inhibitors and amino propanol were intact without visible releases. A 450-gallon diesel tank located along the southeastern corner of the storage area was surrounded by pooling product and staining on deteriorated, cracked concrete. Another tank in the southern portion of the area was placed within plastic secondary containment; oily staining and fluid were observed on the surrounding concrete. The tank label was illegible, but a visible hazard label indicated the contents likely included diesel. Additionally, the subject property is identified in the ERNS and CHMIRS databases for hazardous substance releases, with 23 incidents reported between 1995 and 2023. Documentation of cleanup activities or confirmation sampling were not available in these databases or other resources researched as part of this ESA. The hazardous substances releases noted in the databases and observations made during the site reconnaissance have a potential to impact the underlying surface and are considered a REC.
REC-4: 2024 – 2025 Subsurface Investigation Findings: Between November 2024 and August 2025, Langan conducted subsurface investigations in accessible areas of concern identified through historical research at the subject property. While several investigated areas were absent of subsurface impact, several analytical results identified total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding selected environmental screening levels (ESLs) in multiple areas across the property. The investigation was limited to soil and soil vapor; however, given the detections above selected ESLs, these findings are considered a REC.
REC-5: Adjoining and Surrounding Current and Historical Oil and Gas Production: Oil derricks were first visible in the area surrounding the subject property on the 1928 aerial photograph. The southeast and east adjoining properties were used for oil and gas production until residential development occurred by 2002, while the north and northeast adjoining properties have remained in oil and gas production since 1928. Historical aerials also show tank farms, pits, and sumps on adjoining and surrounding properties until the 1970s. Oil and gas infrastructure was historically associated with hazardous substances use, and pits and sumps were commonly used for the collection and storage of drilling muds, produced water, oil and gas condensates, and other chemicals used in the drilling and production process. The north and northeastern adjoining property, Bolsas, is listed in the ERNS and CHMIRS databases for hazardous substance releases related to oil and gas production between 1994 and 2006. Based on prior groundwater investigations and the topography of the area, groundwater flow is expected to flow

ASTM E1527-21 Scope Items
between west to southwest, creating a potential migration pathway toward the subject property. Therefore, historical oil and gas production on the adjoining and surrounding properties, combined with documented hazardous substance releases at Bolsas, are considered a REC due to the potential for soil and groundwater migration impacts at the subject property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs for the subject property.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs for the subject property.
De Minimis Conditions
Langan did not identify de minimis conditions for the subject property.
Significant Data Gaps
Langan did not identify significant data gaps for the subject property.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
BER-1 – Asbestos Containing Materials (ACM): According to interviews and observations made during the site reconnaissance, ACM is reportedly present within the buildings. Additionally, ACM is also often present in the gaskets, pipe flanges, and pipe wrapping in oil fields. Due to the ACM, additional mitigation measures may need to be implemented during redevelopment activities.
BER-2 – Methane: The subject property is located within the City of Huntington Beach Methane District. Methane is a naturally occurring flammable gas that is associated with natural decay and oil and gas production. Given the use of the subject property for oil and gas operations since the 1920s, methane mitigation measures will likely be required during redevelopment activities.
BER 3 - PFAS from Legacy AFFF in Firefighting Foam Tank. Although the current AFFF formulation stored in the firefighting foam tank does not appear to contain PFAS, legacy AFFF may have included PFAS compounds. During decommissioning, it may be necessary to assess for the presence of PFAS within the system and implement appropriate decontamination and disposal measures.

6. ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Cory Lavoie
Principal/Vice President (Environmental Professional)

Resumes outlining the qualifications of the project team and the Environmental Professional are included in Appendix G.

7. REFERENCES

Langan used the following sources to complete this Phase I ESA.

- ASTM E1527-21, Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process, published 16 November 2021
- California Department of Conservation Geologic Energy Management Division's Well Finder: https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx
- Department of Toxic Substances Control Envirostor Database: https://www.envirostor.dtsc.ca.gov/public/
- EDR, Inc., Radius Map Report with GeoCheck, July 2025
- EDR, Inc., City Directory Image Report, July 2025
- EDR, Inc., Aerial Photographs, July 2025
- EDR, Inc., Historical Topographic Map Report, July 2025
- EDR, Inc., Sanborn Map Report, July 2025
- Groundwater Technology, Inc., Site Assessment Reports, Shell Western Exploration and Production, Inc., 20101 Golden West, Huntington Beach, California, 1990 - 1996
- Huntington Beach, Building Department
- Huntington Beach, Department of Environmental Health
- Orange County Health Care Agency
- PFAS Exchange GIS Webviewer, https://experience.arcgis.com/experience/12412ab41b3141598e0bb48523a7c940/
- Remedial Action Completion Certification, Underground Storage Tank (UST) Case, Calk Resources, Orange County Health Care Agency, 13 March 1997
- Soil and Soil Vapor Investigation Report, California Resources Corporation, Langan CA, Inc., 3 July 2025
- Soil Investigation Report, California Resources Corporation, Langan CA, Inc., 24 March 2025
- Soil Investigation Report, California Resources Corporation, Langan CA, Inc., Jul 2025
- Soil Investigation Report, California Resources Corporation, Langan CA, Inc., 31 December 2024
- South Coast Air Quality Management District database:
- State Water Resources Control Board Geotracker Database: https://geotracker.waterboards.ca.gov/
- United States Census Bureau, North American Industry Classification System, https://www.census.gov/naics/
- US EPA 40 CFR Part 302 (EPA-HQ-OLEM-2019-0341; FRL-7204-03-OLEM), RIN 2050-AH09, Designation of Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) as CERCLA Hazardous Substances, Final Rule, 8 May 2024

- US EPA ECHO database: http://echo.epa.gov/facilities searched 16 November 2024
- US EPA ECHO: PFAS Analytic Tools - https://echo.epa.gov/trends/pfas-tools
- US EPA ENVIROFACTS database: https://www3.epa.gov/enviro/ searched 16 November 2024
- US EPA MyProperty database: https://www3.epa.gov/enviro/facts/myproperty/ searched July 2025

Table 7-1 Dates of Assessment Components

COMPONENT	DATE
Interviews	22 August - September 2025
Review of government records	July - August 2025
Site reconnaissance	22 August 2025
Declaration by Environmental Professional	DRAFT

8. LIMITATIONS AND DEFINITIONS

This Phase I ESA report was prepared for the user and is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. The user is the sole intended beneficiary of the report. The user requested no special terms or conditions regarding this Phase I ESA.

Langan's scope of services, which is described in Section 1.2 and in the contract executed between Langan and the user, was limited to that agreed to with the user and no other services beyond those explicitly stated are implied. To the extent possible, the services performed and agreed upon for this Phase I ESA are consistent with the guidelines of ASTM E1527-21.

This report is not intended to be an exhaustive assessment of the subject property. The purpose of the Phase I ESA is to reduce uncertainty about unknown conditions at the subject property. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a subject property. Therefore, Langan cannot "verify", "insure", "certify", or "guarantee" that the subject property is free of environmental concerns.

No expressed or implied representation or warranty is included or intended in this report, except that our services were completed using the care and skill ordinarily followed by professionals providing similar services under similar circumstances in similar locations at the same point in time.

The conclusions provided in this report are based solely on information obtained through completing the standard activities required by ASTM E1527-21 and are intended exclusively for the purpose stated herein, at the specified subject property, as it existed at the point in time the assessment was completed. The conclusions provided in this report do not apply to conditions and features of which Langan was not made aware of through good faith efforts to complete the activities required by ASTM E1527-21 and did not have the opportunity to evaluate.

8.1 ASTM Definitions

The following definitions are provided in ASTM E1527-21 and presented below for reference. This section is not a comprehensive list of definitions provided in ASTM E1527-21 and is intended to summarize those pertinent to this Phase I ESA report.

Activity and use limitations (AULs): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effective-ness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

Adjoining properties: any real property or properties the border of which is contiguous or partially contiguous with that of the subject property, or that would be contiguous or partially contiguous with that of the subject property but for a street, road, or other public thoroughfare separating them.

All Appropriate Inquiries: that inquiry constituting all appropriate inquiries into the previous ownership and uses of the subject property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C.§ 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42U.S.C. §§ 9601(35)(A) & (B), § 9607(b)(3), § 9607(q), and§ 9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance: the area for which records must be obtained and reviewed pursuant to ASTM E1527-21 Section 8 subject to the limitations provided in that section. This may include areas outside the subject property and shall be measured from the nearest subject property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk (BER): a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Controlled recognized environmental condition (CREC): recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

De minimis condition: a condition related to a release that generally does not present a threat to human 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. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

Engineering controls: physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property. Engineering controls are a type of activity and use limitation (AUL).

Environment: environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8).

Hazardous substance: a substance defined as a hazardous substance pursuant to CERCLA 42 U.S.C. § 9601(14), as interpreted by EPA regulations and the courts: "(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. § 6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. § 6901 et seq.) has been

suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. § 7412), and (F) any imminently Hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Hazardous waste: any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 U.S.C. § 6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§ 6901-6992k) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a hazardous waste, at 42 U.S.C. § 6903, as: "a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may: (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness, or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."

Historical recognized environmental condition (HREC): previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

Institutional controls (IC): a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation (AUL).

Key site manager: the person identified by the owner or operator of a subject property as having good knowledge of the uses and physical characteristics of the subject property.

Material threat: obvious threat which is likely to lead to a release and that, in the opinion of the environmental professional, would likely result in impact to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer.

Property use limitation: limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous sub-stances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized environmental conditions: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. For the purposes of this definition, "likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22). There are a number of statutory exclusions from the definition of release that may impact the environmental professional's opinions and conclusions, such as the normal application of fertilizer.

Significant data gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

Site reconnaissance: that part that is contained in Section 9 of ASTM E1527-21 and addresses what should be done in connection with the site visit. The site reconnaissance includes, but is not limited to, the site visit done in connection with such a Phase I Environmental Site Assessment.

Site visit: the visit of the subject property during which observations are made constituting the site reconnaissance section of this practice.

Subject property: the property that is the subject of the environmental site assessment described in this practice.

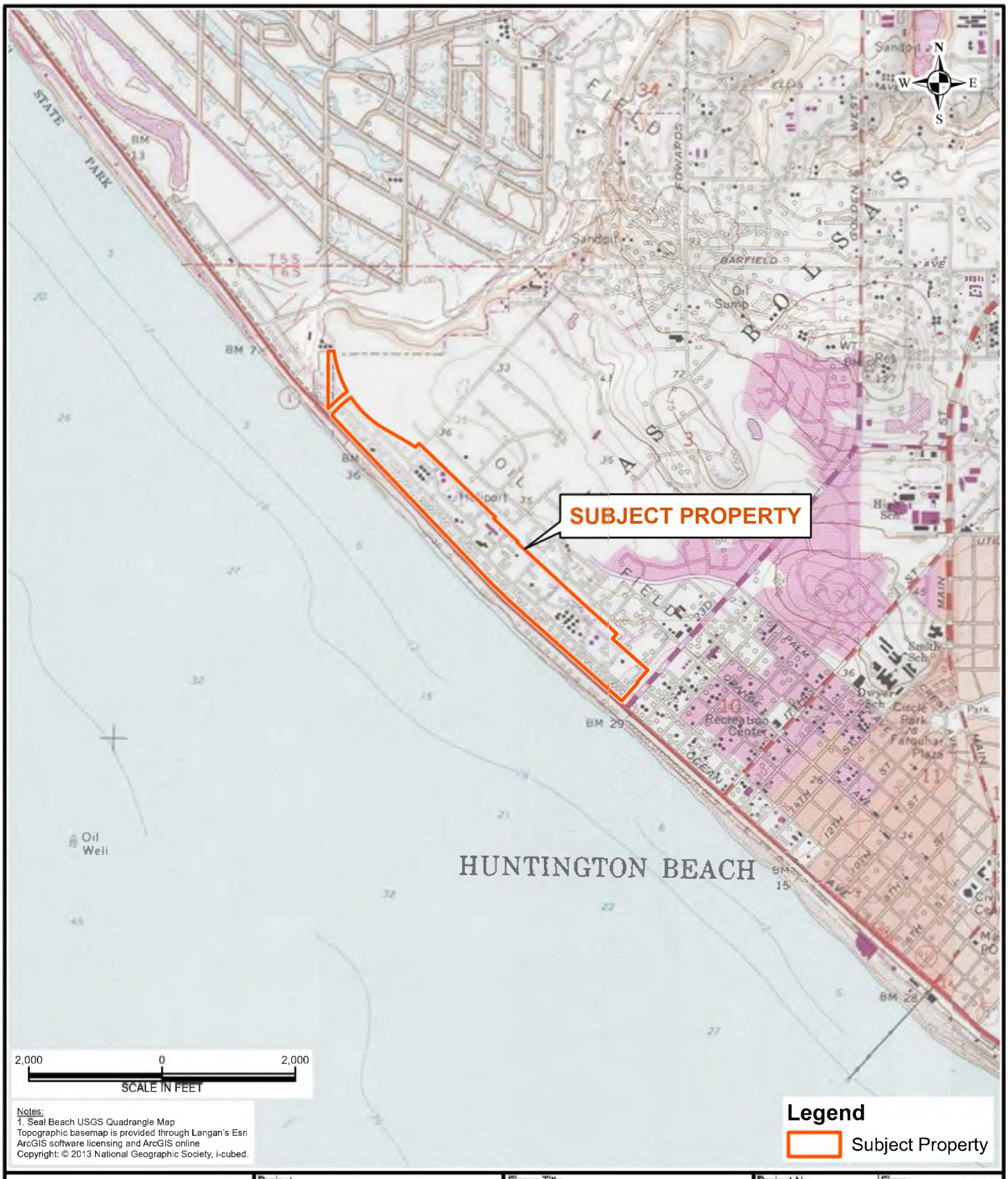
User: the party seeking to use ASTM E1527-21 to complete an environmental site assessment of the subject property.

8.2 Standard Environmental Record Sources

Langan reviewed an environmental database search report prepared by an environmental database search provider for the subject property and surrounding area. The database search report includes a listing of properties identified on select federal, state, local and tribal standard source environmental databases within the approximate minimum search radii outlined in ASTM E1527-21. This information was supplied to Langan by the environmental database search provider, and to the environmental database search provider by government sources; therefore, neither Langan nor the environmental database search provider can verify the completeness and accuracy of the database information. Appendix F contains a copy of the report, with specific source and property descriptions, and the dates of the last update for each database searched. Langan reviewed the database search report on a record-by-record basis to evaluate if certain properties identified in the database report are likely to represent an environmental concern for the subject property. The evaluation criteria included factors such as distance, groundwater gradient, nature of the listing, and regulatory status. Unless specifically discussed in the body of this report, the facilities listed on the database do not appear to represent an environmental concern to the subject property.

APPENDIX A

FIGURES



Notes:
1. Seal Beach USGS Quadrangle Map
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
Copyright: © 2013 National Geographic Society, i-cubed.

Legend

Subject Property

LANGAN
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www.langan.com

Project
CRC HUNTINGTON BEACH FACILITY
HUNTINGTON BEACH
ORANGE COUNTY CALIFORNIA

Figure Title
SUBJECT PROPERTY LOCATION MAP

Project No.	700152701
Date	8/31/2025
Scale	1" = 2,000 feet
Drawn By	TO
Figure	1

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Path: \\langan.com\data\IRV\data7\700152701\Project Data\ArcGIS\APRX\CRC Huntington Beach 2025\CRC Huntington Beach 2025.aprx



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Project

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HUNTINGTON BEACH

ORANGE COUNTY CALIFORNIA

Figure Title

SUBJECT PROPERTY LAYOUT

Project No. 700152701

Date 10/8/2025

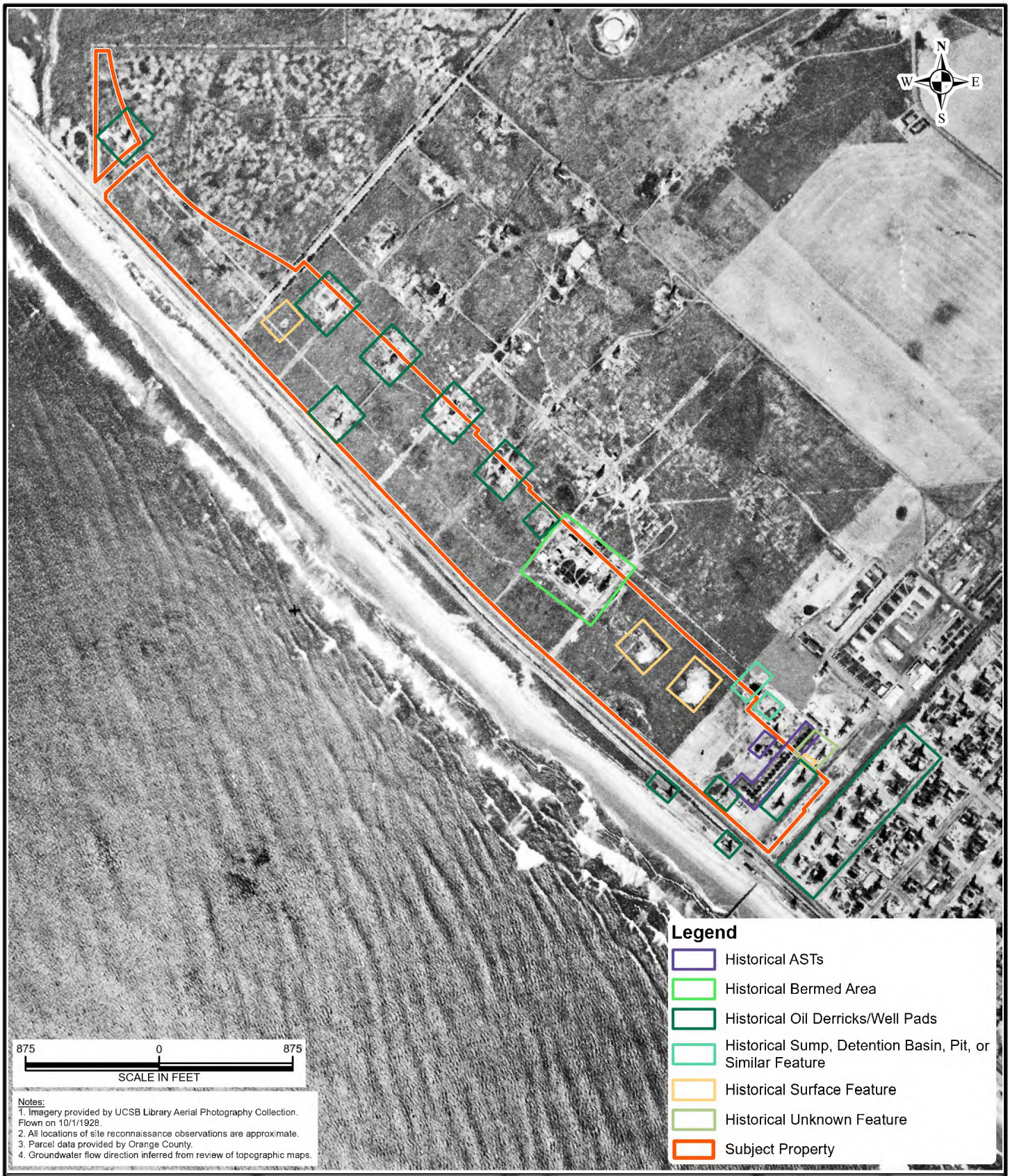
Scale 1" = 875 feet

Drawn By JM

Figure 2

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Notes:
1. Imagery provided by UCSB Library Aerial Photography Collection. Flown on 10/1/1928.
2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Orange County.
4. Groundwater flow direction inferred from review of topographic maps.

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ORANGE COUNTY CALIFORNIA

Figure Title
SUBJECT PROPERTY LAYOUT - 1920s

Project No.
700152701

Date
9/2/2025

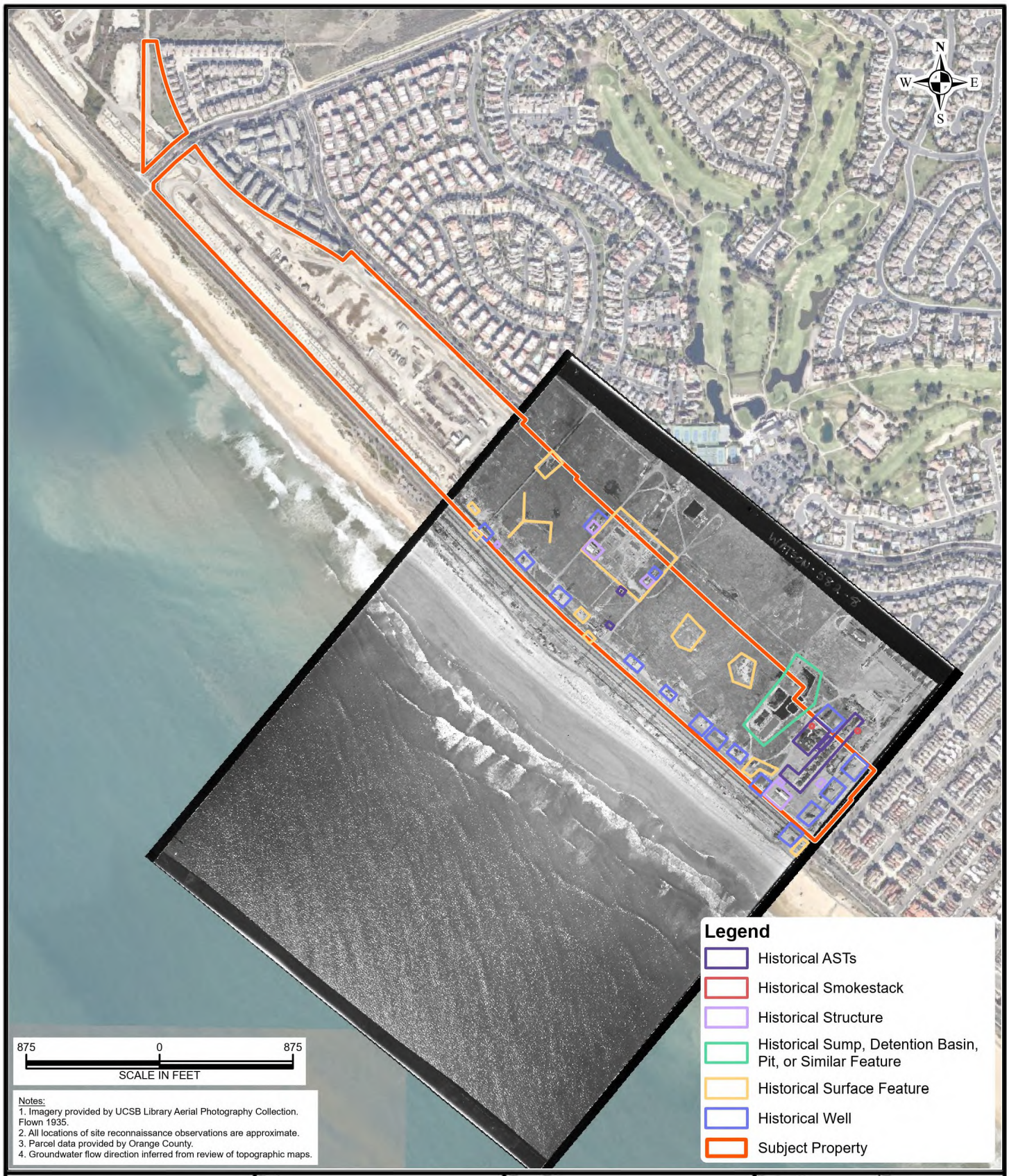
Scale
1" = 875 feet

Drawn By
TO

Figure
2A

© 2025 Langan

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Notes:
1. Imagery provided by UCSB Library Aerial Photography Collection. Flown 1935.
2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Orange County.
4. Groundwater flow direction inferred from review of topographic maps.

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Figure Title
SUBJECT PROPERTY LAYOUT - 1930s

Project No.
700152701

Date
9/2/2025

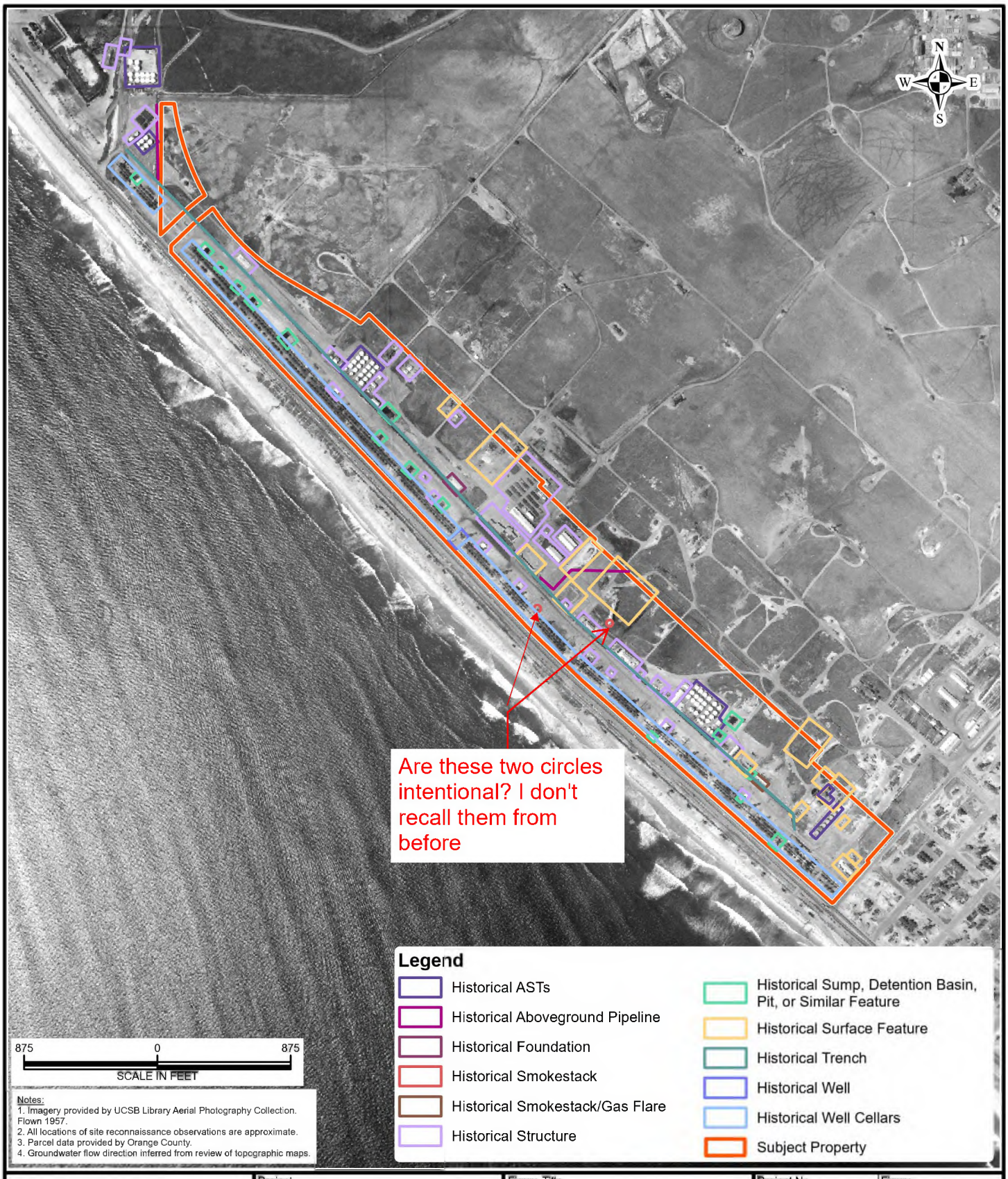
Scale
1" = 875 feet

Drawn By
TO

Figure
2B

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Notes:
1. Imagery provided by UCSB Library Aerial Photography Collection. Flown 1957.
2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Orange County.
4. Groundwater flow direction inferred from review of topographic maps.

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Figure Title
SUBJECT PROPERTY LAYOUT - 1950s

Project No.
700152701

Date
9/2/2025

Scale
1" = 875 feet

Drawn By
TO

Figure
2C

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Project

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Figure Title

SUBJECT PROPERTY LAYOUT - 1990s

Project No.	700152701
Date	9/2/2025
Scale	1" = 875 feet
Drawn By	TO

Figure

2D

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Notes:
1. Imagery provided by UCSB Library Aerial Photography Collection. Flown 2001.
2. All locations of site reconnaissance observations are approximate.
3. Parcel data provided by Orange County.
4. Groundwater flow direction inferred from review of topographic maps.

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Project
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HUNTINGTON BEACH

ORANGE COUNTY CALIFORNIA

Figure Title
SUBJECT PROPERTY LAYOUT - 2000s

Project No.
700152701

Date
9/3/2025

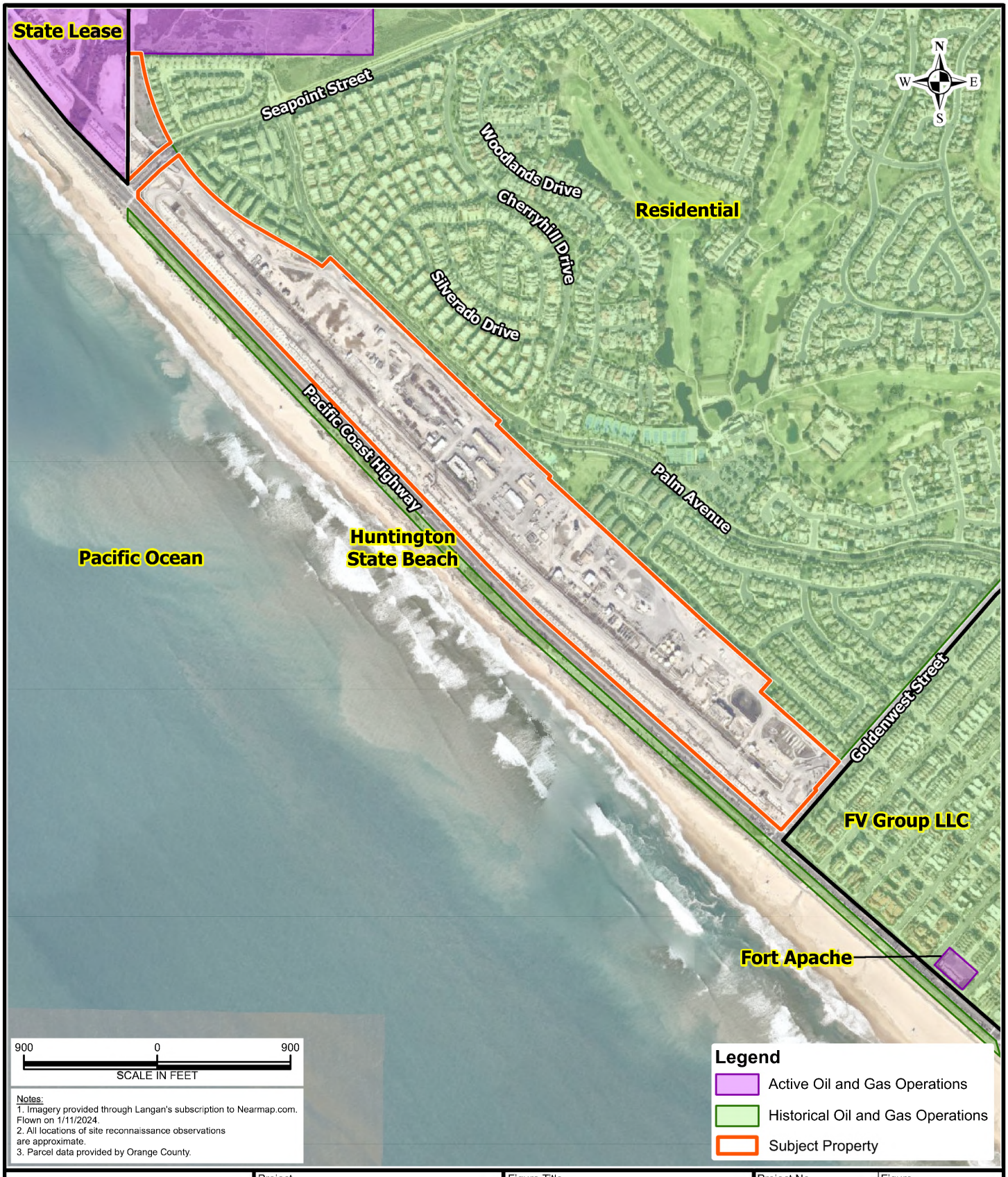
Scale
1" = 875 feet

Drawn By
TO

Figure
2E

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Project
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ORANGE COUNTY CALIFORNIA

Figure Title
NEARBY PROPERTIES MAP

Project No. 700152701
Date 9/4/2025
Scale 1" = 900 feet
Drawn By TO

Figure 3

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APPENDIX B

AGENCY RECORD AND OTHER REPORTS

Katherine Thomas

From: aramos1@aqmd.gov
Sent: Wednesday, July 9, 2025 12:40 PM
To: Katherine Thomas
Cc: ob_pr_support_docs@aqmd.gov
Subject: SCAQMD Public Records Request# 1432174, -- Completion Letter



Katherine Thomas

Langan Ca, Inc

1960 East Grand Street, Suite 585

El Segundo, California

Ref: Request for Records; Control No. **1432174**, Received 7/8/2025

RE: P/O'S, EQL'S, NOV'S, N/C'S & EMISSION SUM FOR 5615 OCEAN VISTA DR, HUNTINGTON BEACH, CA, FROM 4/18/2024-7/7/2025.

After a thorough search of this agency's records:

NO REQUESTED RECORDS WERE FOUND FOR THE ABOVE REFERENCED FACILITY OR FACILITY SITE.

Should you have any questions or need additional information, please do not hesitate to contact me at (909) 396-3700, Tuesday through Friday, between the hours of **8:00 a.m.** and **4:30 p.m.**

Sincerely,

Abigail Ramos

Public Records Coordinator

Information Management

CalGEM Well Records
20101 Goldenwest Street,
Huntington Beach, CA

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921514	Water Source Well	11	Canceled	Oil & Gas	Aera Energy LLC	33.6727066	-118.021904
425921729	State Prc 392	728	Active	Oil & Gas	California Resources Production Corporation	33.674678	-118.025039
405920709	State Prc 91	34	Active	Oil & Gas	California Resources Production Corporation	33.66886139	-118.0173721
405920711	State Prc 91	37	Active	Oil & Gas	California Resources Production Corporation	33.66891479	-118.0174408
405921051	State Prc 91	38	Active	Oil & Gas	California Resources Production Corporation	33.66910172	-118.0177155
405903066	State Prc 425	502A	Active	Waterflood	California Resources Production Corporation	33.67815781	-118.029541
405903073	State Prc 425	509A	Active	Oil & Gas	California Resources Production Corporation	33.67731476	-118.0285568
405903087	State Prc 425	523	Active	Waterflood	California Resources Production Corporation	33.67673111	-118.0278778
405903096	State Prc 425	539	Active	Waterflood	California Resources Production Corporation	33.67871475	-118.0300293
405903099	State Prc 425	551 A	Active	Waterflood	California Resources Production Corporation	33.67912292	-118.0306549
405903107	State Prc 425	559A	Active	Waterflood	California Resources Production Corporation	33.67864609	-118.030098
405903108	State Prc 425	560 A	Active	Oil & Gas	California Resources Production Corporation	33.67869949	-118.0301666
405903111	State Prc 425	563A	Active	Oil & Gas	California Resources Production Corporation	33.67885208	-118.0303497
405903112	State Prc 425	564A	Active	Oil & Gas	California Resources Production Corporation	33.67890549	-118.0304108
405903113	State Prc 425	565	Active	Oil & Gas	California Resources Production Corporation	33.67898941	-118.0303421
405903118	State Prc 425	571	Active	Oil & Gas	California Resources Production Corporation	33.67788696	-118.0292282
405921160	State Prc 91	70	Active	Oil & Gas	California Resources Production Corporation	33.6688118	-118.0176697
405921722	State Prc 425	721	Active	Oil & Gas	California Resources Production Corporation	33.674785	-118.025162
405921723	State Prc 392	722	Active	Oil & Gas	California Resources Production Corporation	33.67475	-118.024249
405921724	State Prc 392	723	Active	Oil & Gas	California Resources Production Corporation	33.67475891	-118.0251312
405921725	State Prc 425	724	Active	Oil & Gas	California Resources Production Corporation	33.67469	-118.025051
405921726	State Prc 425	725	Active	Oil & Gas	California Resources Production Corporation	33.67472076	-118.0250855
405921727	State Prc 425	726	Active	Oil & Gas	California Resources Production Corporation	33.67470932	-118.0250778
405921730	State Prc 392	729	Active	Oil & Gas	California Resources Production Corporation	33.67466354	-118.0250168
405921731	State Prc 392	730	Active	Oil & Gas	California Resources Production Corporation	33.67466354	-118.0250015
405921732	State Prc 392	731	Active	Oil & Gas	California Resources Production Corporation	33.67462921	-118.0249863
405921733	State Prc 392	732	Active	Oil & Gas	California Resources Production Corporation	33.67461777	-118.0249634
405921734	State Prc 392	733	Active	Oil & Gas	California Resources Production Corporation	33.67459869	-118.0249481
405921735	State Prc 425	734 I	Active	Waterflood	California Resources Production Corporation	33.67458725	-118.0248261
405921736	State Prc 425	735	Active	Oil & Gas	California Resources Production Corporation	33.67456436	-118.02491
425921737	State Prc 425	736	Active	Oil & Gas	California Resources Production Corporation	33.674553	-118.024892
405921738	State Prc 425	737I	Active	Waterflood	California Resources Production Corporation	33.67453384	-118.0248642
405921711	State Prc 425	740	Active	Oil & Gas	California Resources Production Corporation	33.67045975	-118.019516

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921712	State Prc 392	741	Active	Oil & Gas	California Resources Production Corporation	33.6704483	-118.0194931
405921713	State Prc 425	742	Active	Oil & Gas	California Resources Production Corporation	33.67042923	-118.0194778
405921714	State Prc 392	743	Active	Oil & Gas	California Resources Production Corporation	33.67041779	-118.019455
405921715	State Prc 392	744	Active	Oil & Gas	California Resources Production Corporation	33.67040253	-118.0194397
405921716	State Prc 392	745	Active	Oil & Gas	California Resources Production Corporation	33.67038727	-118.0194168
405921717	State Prc 392	746	Active	Oil & Gas	California Resources Production Corporation	33.67037582	-118.0193939
405921718	State Prc 425	747	Active	Oil & Gas	California Resources Production Corporation	33.67036057	-118.0193787
405921720	State Prc 392	749	Active	Oil & Gas	California Resources Production Corporation	33.67033005	-118.0193329
405921757	State Prc 425	750I	Active	Waterflood	California Resources Production Corporation	33.67531204	-118.0257721
405921758	State Prc 425	752	Active	Oil & Gas	California Resources Production Corporation	33.67568588	-118.0262146
405921762	State Prc 425	754 I	Active	Waterflood	California Resources Production Corporation	33.67536163	-118.0258331
405902897	State Prc 392	CJ-132B	Active	Waterflood	California Resources Production Corporation	33.66889572	-118.017601
405902976	State Prc 392	CJ-154	Active	Oil & Gas	California Resources Production Corporation	33.66966248	-118.0188599
405902932	State Prc 392	CJ-155	Active	Waterflood	California Resources Production Corporation	33.66988754	-118.0189896
405902810	State Prc 392	CJ-24A	Active	Oil & Gas	California Resources Production Corporation	33.66909027	-118.0178833
405920919	State Prc 392	CJ-278A	Active	Oil & Gas	California Resources Production Corporation	33.676548	-118.027504
405920983	State Prc 425	CJ-287	Active	Waterflood	California Resources Production Corporation	33.67673492	-118.0278854
405921061	State Prc 392	CJ-288	Active	Oil & Gas	California Resources Production Corporation	33.669384	-118.0184708
405902870	State Prc 392	CJ-78	Active	Waterflood	California Resources Production Corporation	33.67504501	-118.0258942
405902877	State Prc 392	J-108	Active	Oil & Gas	California Resources Production Corporation	33.67645264	-118.0275574
405902900	State Prc 392	J-135	Active	Oil & Gas	California Resources Production Corporation	33.67589569	-118.0269013
405900111	State Prc 392	J-143	Active	Oil & Gas	California Resources Production Corporation	33.67001724	-118.0193405
405903094	State Prc 392	J-149	Active	Oil & Gas	California Resources Production Corporation	33.67390823	-118.0245514
405902807	State Prc 392	J-19C	Active	Oil & Gas	California Resources Production Corporation	33.67388916	-118.024353
405901921	State Prc 392	J-1A	Active	Oil & Gas	California Resources Production Corporation	33.66918945	-118.018013
405920719	State Prc 392	J-252	Active	Waterflood	California Resources Production Corporation	33.66920853	-118.0182266
405921077	State Prc 392	J-292	Active	Oil & Gas	California Resources Production Corporation	33.67577362	-118.0265961
405901925	State Prc 392	J-5 B	Active	Oil & Gas	California Resources Production Corporation	33.67024231	-118.0195007
405902849	State Prc 392	J-75A	Active	Oil & Gas	California Resources Production Corporation	33.67526245	-118.0261383
405903033	State Prc 392	S-120	Active	Waterflood	California Resources Production Corporation	33.67697525	-118.0279999
405903037	State Prc 392	S-124A	Active	Waterflood	California Resources Production Corporation	33.67039871	-118.0198822
405903042	State Prc 392	S-129A	Active	Oil & Gas	California Resources Production Corporation	33.67058563	-118.020134
405902817	State Prc 392	S-152	Active	Oil & Gas	California Resources Production Corporation	33.66924667	-118.01828

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405903100	State Prc 392	S-163	Active	Waterflood	California Resources Production Corporation	33.6782608	-118.0296631
405902821	State Prc 392	S-164	Active	Waterflood	California Resources Production Corporation	33.67336655	-118.0237503
405921096	State Prc 392	S-173	Active	Oil & Gas	California Resources Production Corporation	33.67803192	-118.0292282
405921102	State Prc 392	S-175	Active	Oil & Gas	California Resources Production Corporation	33.67840958	-118.0296707
405902915	State Prc 392	S-1B	Active	Oil & Gas	California Resources Production Corporation	33.66969681	-118.0187225
405902933	State Prc 392	S-22B	Active	Waterflood	California Resources Production Corporation	33.66913605	-118.017952
405902948	State Prc 392	S-39B	Active	Waterflood	California Resources Production Corporation	33.67139816	-118.0210953
405902960	State Prc 392	S-47A	Active	Oil & Gas	California Resources Production Corporation	33.67633057	-118.0272369
405903005	State Prc 392	S-92A	Active	Oil & Gas	California Resources Production Corporation	33.67440033	-118.0251236
405903006	State Prc 392	S-93B	Active	Oil & Gas	California Resources Production Corporation	33.67445374	-118.0251846
405903008	State Prc 392	S-95A	Active	Waterflood	California Resources Production Corporation	33.67721176	-118.0284348
405903011	State Prc 392	S-98	Active	Waterflood	California Resources Production Corporation	33.67845535	-118.0297241
405902885	State Prc 392	T-15	Active	Oil & Gas	California Resources Production Corporation	33.67126465	-118.0210877
405921154	State Prc 392	T-25	Active	Oil & Gas	California Resources Production Corporation	33.67251587	-118.022644
405903125	State Prc 392	T-3	Active	Oil & Gas	California Resources Production Corporation	33.67385483	-118.0244904
405921136	State Prc 392	T-34	Active	Oil & Gas	California Resources Production Corporation	33.67321777	-118.0235672
405921158	State Prc 392	T-38	Active	Oil & Gas	California Resources Production Corporation	33.6774025	-118.0285034
405921183	State Prc 392	T-42	Active	Oil & Gas	California Resources Production Corporation	33.67176437	-118.0217743
405902901	State Prc 392	UJ-136A	Active	Oil & Gas	California Resources Production Corporation	33.67111206	-118.020874
405920248	State Prc 392	UJ-189	Active	Oil & Gas	California Resources Production Corporation	33.67100525	-118.0207291
405920732	State Prc 392	UJ-256	Active	Waterflood	California Resources Production Corporation	33.67515945	-118.0260239
405920774	State Prc 392	UJ-262	Active	Oil & Gas	California Resources Production Corporation	33.67499924	-118.0258408
405920801	State Prc 392	UJ-269A	Active	Oil & Gas	California Resources Production Corporation	33.67302322	-118.0235062
405920920	State Prc 392	UJ-277	Active	Oil & Gas	California Resources Production Corporation	33.67565155	-118.0264587
405901923	State Prc 392	UJ-3A	Active	Waterflood	California Resources Production Corporation	33.66928482	-118.018158
405902850	State Prc 392	UJ-76B	Active	Oil & Gas	California Resources Production Corporation	33.67536545	-118.0262756
405921073	State Prc 425	UMZ-587	Active	Oil & Gas	California Resources Production Corporation	33.67944336	-118.0310364
405921764	State Prc 392	731	Canceled	Oil & Gas	California Resources Production Corporation	33.6746254	-118.0249786
405921765	State Prc 425	735	Canceled	Oil & Gas	California Resources Production Corporation	33.67456436	-118.0249023
405921766	State Prc 426	736	Canceled	Oil & Gas	California Resources Production Corporation	33.67455292	-118.0248947
405921504	Water Source Well	1	Idle	Oil & Gas	California Resources Production Corporation	33.673097	-118.022054
405921505	Water Source Well	1-A	Idle	Oil & Gas	California Resources Production Corporation	33.67297745	-118.0222092
405907910	Water Source Well	12	Idle	Water Disposal	California Resources Production Corporation	33.676458	-118.025991

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921506	Water Source Well	2	Idle	Oil & Gas	California Resources Production Corporation	33.6724472	-118.0215225
405921507	Water Source Well	2-A	Idle	Oil & Gas	California Resources Production Corporation	33.672427	-118.021499
405921517	Water Source Well	21	Idle	Oil & Gas	California Resources Production Corporation	33.67138672	-118.0208588
405921518	Water Source Well	21A	Idle	Oil & Gas	California Resources Production Corporation	33.67141724	-118.0209045
405921519	Water Source Well	23	Idle	Oil & Gas	California Resources Production Corporation	33.67018127	-118.0191498
405921520	Water Source Well	26	Idle	Oil & Gas	California Resources Production Corporation	33.67082214	-118.0200424
405921521	Water Source Well	26A	Idle	Oil & Gas	California Resources Production Corporation	33.67079163	-118.0199966
405921522	Water Source Well	27	Idle	Water Source	California Resources Production Corporation	33.67013168	-118.0182953
405921557	Water Source Well	28	Idle	Oil & Gas	California Resources Production Corporation	33.66921616	-118.0178375
405921524	Water Source Well	29	Idle	Oil & Gas	California Resources Production Corporation	33.66973877	-118.0181656
405921699	Water Source Well	3	Idle	Water Source	California Resources Production Corporation	33.674601	-118.024736
405921515	Water Source Well	32	Idle	Oil & Gas	California Resources Production Corporation	33.6709938	-118.0189133
405921516	Water Source Well	33	Idle	Oil & Gas	California Resources Production Corporation	33.6729393	-118.0221939
405921054	State Prc 91	39	Idle	Steamflood	California Resources Production Corporation	33.66906738	-118.0176544
405921148	State Prc 392	3T-40	Idle	Oil & Gas	California Resources Production Corporation	33.6721344	-118.0221252
405921508	Water Source Well	5	Idle	Oil & Gas	California Resources Production Corporation	33.673511	-118.022956
405921509	Water Source Well	5-A	Idle	Oil & Gas	California Resources Production Corporation	33.67351913	-118.0230179
405903068	State Prc 425	504A	Idle	Oil & Gas	California Resources Production Corporation	33.67917633	-118.0307236
405903070	State Prc 425	506A	Idle	Waterflood	California Resources Production Corporation	33.67880249	-118.0302887
405903072	State Prc 425	508	Idle	Oil & Gas	California Resources Production Corporation	33.67853546	-118.0299759
405903079	State Prc 425	515A	Idle	Oil & Gas	California Resources Production Corporation	33.67794418	-118.0292893
405903084	State Prc 425	520A	Idle	Waterflood	California Resources Production Corporation	33.67950058	-118.0310974
405903097	State Prc 425	540A	Idle	Oil & Gas	California Resources Production Corporation	33.67927933	-118.0308533
405903103	State Prc 425	555	Idle	Oil & Gas	California Resources Production Corporation	33.67907333	-118.0306015
405903128	State Prc 425	583A	Idle	Waterflood	California Resources Production Corporation	33.67578888	-118.0267716
405921510	Water Source Well	6	Idle	Water Source	California Resources Production Corporation	33.67424393	-118.0238876
405921511	Water Source Well	6-A	Idle	Water Source	California Resources Production Corporation	33.67446518	-118.0241165
405921060	State Prc 91	61	Idle	Oil & Gas	California Resources Production Corporation	33.66902542	-118.0176086
405921721	State Prc 425	720	Idle	Oil & Gas	California Resources Production Corporation	33.67480087	-118.025177
405921739	State Prc 392	738	Idle	Oil & Gas	California Resources Production Corporation	33.6745224	-118.0248566
405921740	State Prc 425	739	Idle	Oil & Gas	California Resources Production Corporation	33.67450579	-118.0248357
405921719	State Prc 392	748	Idle	Oil & Gas	California Resources Production Corporation	33.67034531	-118.0193558
405921760	State Prc 425	751I	Idle	Waterflood	California Resources Production Corporation	33.67546844	-118.0259476

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921761	State Prc 425	753	Idle	Oil & Gas	California Resources Production Corporation	33.67571259	-118.0262528
405921773	State Prc 392	755	Idle	Oil & Gas	California Resources Production Corporation	33.6728505	-118.0224119
405921771	State Prc 425	756	Idle	Oil & Gas	California Resources Production Corporation	33.672566	-118.0223872
405921769	State Prc 392	757	Idle	Oil & Gas	California Resources Production Corporation	33.672546	-118.0223595
405921768	State Prc 392	758	Idle	Oil & Gas	California Resources Production Corporation	33.672404	-118.0221649
405921772	State Prc 392	759	Idle	Oil & Gas	California Resources Production Corporation	33.672379	-118.0221315
405921770	State Prc 392	760	Idle	Oil & Gas	California Resources Production Corporation	33.67235519	-118.022098
405921512	Water Source Well	9	Idle	Oil & Gas	California Resources Production Corporation	33.678288	-118.029148
405902788	State Prc 392	C-19	Idle	Waterflood	California Resources Production Corporation	33.67747498	-118.0287476
405902792	State Prc 392	C-23	Idle	Waterflood	California Resources Production Corporation	33.67702484	-118.0280533
405902782	State Prc 392	C-7	Idle	Oil & Gas	California Resources Production Corporation	33.67920685	-118.0305939
405902882	State Prc 392	CJ-113	Idle	Waterflood	California Resources Production Corporation	33.67044067	-118.0199509
405903139	State Prc 425	CJ-159	Idle	Waterflood	California Resources Production Corporation	33.67651367	-118.0276184
405903049	State Prc 392	CJ-179	Idle	Waterflood	California Resources Production Corporation	33.67311859	-118.0236282
405902803	State Prc 392	CJ-196A	Idle	Waterflood	California Resources Production Corporation	33.67303848	-118.0233765
405921036	State Prc 425	CJ-286	Idle	Waterflood	California Resources Production Corporation	33.67502975	-118.0257111
405902975	State Prc 392	CJ-289	Idle	Oil & Gas	California Resources Production Corporation	33.66930389	-118.0183487
405921558	Water Source Well	D-A	Idle	Water Source	California Resources Production Corporation	33.679325	-118.029379
405902871	State Prc 392	J-100	Idle	Oil & Gas	California Resources Production Corporation	33.67568588	-118.0266495
405902872	State Prc 392	J-101A	Idle	Oil & Gas	California Resources Production Corporation	33.67573547	-118.0267105
405902874	State Prc 392	J-104	Idle	Waterflood	California Resources Production Corporation	33.67619705	-118.0272446
405902879	State Prc 392	J-110	Idle	Oil & Gas	California Resources Production Corporation	33.67557907	-118.0265198
405902883	State Prc 392	J-115	Idle	Oil & Gas	California Resources Production Corporation	33.67015076	-118.0193481
405902800	State Prc 392	J-11C	Idle	Waterflood	California Resources Production Corporation	33.671978	-118.0219193
405902902	State Prc 392	J-137	Idle	Oil & Gas	California Resources Production Corporation	33.67053604	-118.0200729
405902905	State Prc 392	J-140A	Idle	Oil & Gas	California Resources Production Corporation	33.6735611	-118.0239792
405900113	State Prc 392	J-146	Idle	Oil & Gas	California Resources Production Corporation	33.66995239	-118.0192566
405920106	State Prc 392	J-163	Idle	Oil & Gas	California Resources Production Corporation	33.67584229	-118.0268402
405902944	State Prc 392	J-173	Idle	Oil & Gas	California Resources Production Corporation	33.67198563	-118.0219116
405902965	State Prc 392	J-180	Idle	Oil & Gas	California Resources Production Corporation	33.67447662	-118.0250626
405903028	State Prc 392	J-182	Idle	Oil & Gas	California Resources Production Corporation	33.67123795	-118.0208817
405902941	State Prc 392	J-184	Idle	Oil & Gas	California Resources Production Corporation	33.67304611	-118.023346
405902806	State Prc 392	J-18C	Idle	Waterflood	California Resources Production Corporation	33.67382431	-118.024292

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902813	State Prc 392	J-27A	Idle	Oil & Gas	California Resources Production Corporation	33.66959763	-118.0185852
405902819	State Prc 392	J-33A	Idle	Waterflood	California Resources Production Corporation	33.66956711	-118.0187149
405900103	State Prc 392	J-40D	Idle	Oil & Gas	California Resources Production Corporation	33.67238235	-118.0224533
405902828	State Prc 392	J-46D	Idle	Oil & Gas	California Resources Production Corporation	33.67507553	-118.0257645
405902829	State Prc 392	J-47B	Idle	Waterflood	California Resources Production Corporation	33.67534256	-118.0260773
405902831	State Prc 392	J-50B	Idle	Oil & Gas	California Resources Production Corporation	33.67544556	-118.026207
405902842	State Prc 392	J-64D	Idle	Oil & Gas	California Resources Production Corporation	33.67217255	-118.0221863
405900107	State Prc 392	J-67B	Idle	Oil & Gas	California Resources Production Corporation	33.67199707	-118.0221024
405902845	State Prc 392	J-68B	Idle	Oil & Gas	California Resources Production Corporation	33.67071915	-118.0201492
405900208	State Prc 392	J-71C	Idle	Oil & Gas	California Resources Production Corporation	33.67077637	-118.0204086
405900108	State Prc 392	J-72A	Idle	Oil & Gas	California Resources Production Corporation	33.67087173	-118.0205536
405902848	State Prc 392	J-74B	Idle	Oil & Gas	California Resources Production Corporation	33.67520523	-118.0260849
405900109	State Prc 392	J-80B	Idle	Oil & Gas	California Resources Production Corporation	33.6717453	-118.0217667
405902853	State Prc 392	J-81A	Idle	Oil & Gas	California Resources Production Corporation	33.67170334	-118.021698
405900110	State Prc 392	J-93C	Idle	Oil & Gas	California Resources Production Corporation	33.67296982	-118.0234451
405902869	State Prc 392	J-99	Idle	Oil & Gas	California Resources Production Corporation	33.67375183	-118.0243607
405903019	State Prc 392	S-106A	Idle	Waterflood	California Resources Production Corporation	33.67985153	-118.0313416
405903023	State Prc 392	S-110A	Idle	Waterflood	California Resources Production Corporation	33.67942429	-118.0308456
405903032	State Prc 392	S-119A	Idle	Oil & Gas	California Resources Production Corporation	33.67691803	-118.0279312
405903048	State Prc 392	S-135B	Idle	Waterflood	California Resources Production Corporation	33.67286301	-118.0233154
405903050	State Prc 392	S-137A	Idle	Waterflood	California Resources Production Corporation	33.66870117	-118.017334
405903058	State Prc 392	S-146	Idle	Oil & Gas	California Resources Production Corporation	33.66875076	-118.0174027
405903135	State Prc 392	S-160	Idle	Oil & Gas	California Resources Production Corporation	33.67358398	-118.0241699
405902852	State Prc 392	S-161	Idle	Oil & Gas	California Resources Production Corporation	33.67180252	-118.0218277
405903085	State Prc 392	S-162	Idle	Waterflood	California Resources Production Corporation	33.67463684	-118.0252457
405902916	State Prc 392	S-2	Idle	Oil & Gas	California Resources Production Corporation	33.67034531	-118.0196304
405902938	State Prc 392	S-28A	Idle	Waterflood	California Resources Production Corporation	33.6720314	-118.0219803
405902943	State Prc 392	S-34A	Idle	Waterflood	California Resources Production Corporation	33.67193604	-118.021843
405902917	State Prc 392	S-3B	Idle	Oil & Gas	California Resources Production Corporation	33.67076111	-118.0202103
405900117	State Prc 392	S-40	Idle	Oil & Gas	California Resources Production Corporation	33.67144775	-118.0211716
405902950	State Prc 392	S-42B	Idle	Oil & Gas	California Resources Production Corporation	33.67245865	-118.0225754
405902956	State Prc 392	S-43A	Idle	Waterflood	California Resources Production Corporation	33.67251587	-118.022644
405902969	State Prc 392	S-56A	Idle	Waterflood	California Resources Production Corporation	33.67739105	-118.0284958

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902981	State Prc 392	S-68	Idle	Oil & Gas	California Resources Production Corporation	33.67570877	-118.0265198
405902987	State Prc 392	S-74A	Idle	Waterflood	California Resources Production Corporation	33.6742363	-118.0249329
405902988	State Prc 392	S-75B	Idle	Oil & Gas	California Resources Production Corporation	33.67429352	-118.0249939
405902994	State Prc 392	S-81C	Idle	Oil & Gas	California Resources Production Corporation	33.67101288	-118.0205612
405903000	State Prc 392	S-87A	Idle	Waterflood	California Resources Production Corporation	33.67617416	-118.0270538
405902921	State Prc 392	S-9	Idle	Oil & Gas	California Resources Production Corporation	33.67431641	-118.0248718
405902875	State Prc 392	T-11	Idle	Oil & Gas	California Resources Production Corporation	33.67624664	-118.0273056
405920650	State Prc 392	T-12	Idle	Oil & Gas	California Resources Production Corporation	33.67261887	-118.0229721
405920651	State Prc 392	T-13	Idle	Oil & Gas	California Resources Production Corporation	33.67121124	-118.0208435
405902841	State Prc 392	T-16	Idle	Oil & Gas	California Resources Production Corporation	33.67208481	-118.0220413
405902890	State Prc 392	T-17	Idle	Oil & Gas	California Resources Production Corporation	33.67025757	-118.0196762
405921132	State Prc 392	T-21	Idle	Oil & Gas	California Resources Production Corporation	33.67233658	-118.0223923
405921182	State Prc 392	T-28	Idle	Oil & Gas	California Resources Production Corporation	33.67430496	-118.0250015
405921115	State Prc 392	T-32	Idle	Oil & Gas	California Resources Production Corporation	33.67238998	-118.0224686
405921150	State Prc 392	T-41	Idle	Oil & Gas	California Resources Production Corporation	33.67150497	-118.0212402
405921155	State Prc 392	T-44	Idle	Oil & Gas	California Resources Production Corporation	33.67361069	-118.0240402
405921157	State Prc 392	T-47	Idle	Oil & Gas	California Resources Production Corporation	33.67638779	-118.0273209
405902899	State Prc 392	UJ-134B	Idle	Waterflood	California Resources Production Corporation	33.66876984	-118.017601
405900114	State Prc 392	UJ-148C	Idle	Oil & Gas	California Resources Production Corporation	33.67409134	-118.0247574
405903051	State Prc 392	UJ-156	Idle	Waterflood	California Resources Production Corporation	33.66880417	-118.0174789
405920649	State Prc 392	UJ-174A	Idle	Oil & Gas	California Resources Production Corporation	33.67338181	-118.0239334
405903124	State Prc 392	UJ-176	Idle	Oil & Gas	California Resources Production Corporation	33.67341614	-118.023819
405902920	State Prc 392	UJ-181	Idle	Oil & Gas	California Resources Production Corporation	33.67365646	-118.0241013
405903123	State Prc 392	UJ-185	Idle	Waterflood	California Resources Production Corporation	33.67136002	-118.021225
405920688	State Prc 392	UJ-250A	Idle	Oil & Gas	California Resources Production Corporation	33.67205048	-118.0221787
405920721	State Prc 392	UJ-253	Idle	Oil & Gas	California Resources Production Corporation	33.67461395	-118.025383
405920740	State Prc 425	UJ-257	Idle	Waterflood	California Resources Production Corporation	33.67641449	-118.027504
405920792	State Prc 392	UJ-266	Idle	Oil & Gas	California Resources Production Corporation	33.67532349	-118.026207
405920911	State Prc 392	UJ-274	Idle	Oil & Gas	California Resources Production Corporation	33.67292404	-118.0233841
405920916	State Prc 392	UJ-275	Idle	Oil & Gas	California Resources Production Corporation	33.67375565	-118.0243683
405920921	State Prc 392	UJ-276	Idle	Waterflood	California Resources Production Corporation	33.67422485	-118.0247726
405920969	State Prc 392	UJ-279	Idle	Oil & Gas	California Resources Production Corporation	33.6757431	-118.0267181
405920984	State Prc 392	UJ-283	Idle	Oil & Gas	California Resources Production Corporation	33.67200089	-118.02211

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921003	State Prc 392	UJ-285	Idle	Oil & Gas	California Resources Production Corporation	33.67238998	-118.022644
405921373	State Prc 392	UJ-294	Idle	Oil & Gas	California Resources Production Corporation	33.67402649	-118.0246887
405902818	State Prc 392	UJ-32A	Idle	Waterflood	California Resources Production Corporation	33.66934967	-118.0184174
405902820	State Prc 392	UJ-34C	Idle	Oil & Gas	California Resources Production Corporation	33.67048645	-118.0198288
405902843	State Prc 392	UJ-65B	Idle	Oil & Gas	California Resources Production Corporation	33.67208862	-118.0222473
405900930	State Prc 392	UJ-73B	Idle	Waterflood	California Resources Production Corporation	33.67509842	-118.0259552
405902868	State Prc 392	UJ-98C	Idle	Waterflood	California Resources Production Corporation	33.67097855	-118.0206833
405921513	Water Source Well	10	Plugged	Water Source	California Resources Production Corporation	33.67448807	-118.0248718
405907909	Water Source Well	11A	Plugged	Water Disposal	California Resources Production Corporation	33.67239761	-118.0222702
405907904	Water Source Well	13	Plugged	Water Disposal	California Resources Production Corporation	33.67848587	-118.0289002
405907905	Water Source Well	15	Plugged	Water Disposal	California Resources Production Corporation	33.67878342	-118.0292511
405907906	Water Source Well	16	Plugged	Water Disposal	California Resources Production Corporation	33.67878342	-118.029892
405907911	Water Source Well	20	Plugged	Water Disposal	California Resources Production Corporation	33.67370987	-118.0239639
405907907	Water Source Well	24	Plugged	Water Disposal	California Resources Production Corporation	33.67937851	-118.030571
405921523	Water Source Well	27A	Plugged	Water Source	California Resources Production Corporation	33.67021561	-118.0182037
405921353	Lease by California Resources Production Corporation	34WD	Plugged	Water Disposal	California Resources Production Corporation	33.67409134	-118.0247192
405920710	State Prc 91	36	Plugged	Oil & Gas	California Resources Production Corporation	33.66881561	-118.0173035
405921556	Water Source Well	3A	Plugged	Water Source	California Resources Production Corporation	33.67448807	-118.0248718
405921101	State Prc 91	40	Plugged	Oil & Gas	California Resources Production Corporation	33.66862106	-118.0174027
405907908	Water Source Well	4A	Plugged	Water Disposal	California Resources Production Corporation	33.67161942	-118.0215607
405903065	State Prc 425	501	Plugged	Oil & Gas	California Resources Production Corporation	33.67810059	-118.02948
405903067	State Prc 425	503	Plugged	Oil & Gas	California Resources Production Corporation	33.67922974	-118.0307846
405903071	State Prc 425	507	Plugged	Oil & Gas	California Resources Production Corporation	33.67804718	-118.029419
405903074	State Prc 425	510	Plugged	Oil & Gas	California Resources Production Corporation	33.67955399	-118.0311508
405903075	State Prc 425	511	Plugged	Oil & Gas	California Resources Production Corporation	33.67656708	-118.0276871
405903076	State Prc 425	512	Plugged	Oil & Gas	California Resources Production Corporation	33.67662048	-118.0277481
405903077	State Prc 425	513 A	Plugged	Oil & Gas	California Resources Production Corporation	33.67667007	-118.0278091
405903078	State Prc 425	514B	Plugged	Waterflood	California Resources Production Corporation	33.67369843	-118.0242996
405903081	State Prc 425	517	Plugged	Oil & Gas	California Resources Production Corporation	33.67723846	-118.0283127
405903082	State Prc 392	518	Plugged	Waterflood	California Resources Production Corporation	33.67855835	-118.0298462
405903083	State Prc 425	519	Plugged	Oil & Gas	California Resources Production Corporation	33.67860794	-118.0299072
425903088	State Prc 425	525A	Plugged	Waterflood	California Resources Production Corporation	33.67736435	-118.0286255
405903089	State Prc 425	526	Plugged	Oil & Gas	California Resources Production Corporation	33.67761612	-118.0289154

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405903090	State Prc 425	527	Plugged	Oil & Gas	California Resources Production Corporation	33.67729568	-118.0283737
405903091	State Prc 425	528	Plugged	Oil & Gas	California Resources Production Corporation	33.67821503	-118.0296021
405903092	State Prc 425	529	Plugged	Oil & Gas	California Resources Production Corporation	33.67866135	-118.0299683
405903093	State Prc 425	530	Plugged	Oil & Gas	California Resources Production Corporation	33.67933273	-118.0309067
405903095	State Prc 425	537A	Plugged	Oil & Gas	California Resources Production Corporation	33.67734146	-118.0284424
405903098	State Prc 425	549A	Plugged	Waterflood	California Resources Production Corporation	33.67877197	-118.030098
405903101	State Prc 425	553	Plugged	Oil & Gas	California Resources Production Corporation	33.67831421	-118.0297241
405903102	State Prc 425	554	Plugged	Oil & Gas	California Resources Production Corporation	33.67910004	-118.0304718
405903104	State Prc 425	556B	Plugged	Oil & Gas	California Resources Production Corporation	33.67903519	-118.0305481
405903105	State Prc 425	557	Plugged	Oil & Gas	California Resources Production Corporation	33.67837524	-118.0297852
405903106	State Prc 425	558A	Plugged	Waterflood	California Resources Production Corporation	33.67858887	-118.0300369
405903109	State Prc 425	561	Plugged	Oil & Gas	California Resources Production Corporation	33.67965698	-118.0312805
405903110	State Prc 425	562A	Plugged	Oil & Gas	California Resources Production Corporation	33.67960358	-118.0312195
405903114	State Prc 425	567	Plugged	Oil & Gas	California Resources Production Corporation	33.67772675	-118.0290375
405903116	State Prc 425	569B	Plugged	Oil & Gas	California Resources Production Corporation	33.67842865	-118.0298538
405903117	State Prc 425	570A	Plugged	Oil & Gas	California Resources Production Corporation	33.67782974	-118.0291596
405903119	State Prc 425	572	Plugged	Oil & Gas	California Resources Production Corporation	33.6767807	-118.0279388
405903120	State Prc 425	573	Plugged	Oil & Gas	California Resources Production Corporation	33.67692947	-118.028122
405903121	State Prc 425	574	Plugged	Oil & Gas	California Resources Production Corporation	33.6768837	-118.0280609
405903122	State Prc 425	575	Plugged	Waterflood	California Resources Production Corporation	33.67683792	-118.0280075
405903127	State Prc 425	582	Plugged	Oil & Gas	California Resources Production Corporation	33.67459106	-118.0253296
405903069	State Prc 425	584	Plugged	Oil & Gas	California Resources Production Corporation	33.67874527	-118.0302277
405920979	State Prc 425	585	Plugged	Oil & Gas	California Resources Production Corporation	33.6762886	-118.0271912
405921159	State Prc 91	60	Plugged	Oil & Gas	California Resources Production Corporation	33.66872406	-118.01754
405921066	State Prc 91	62	Plugged	Oil & Gas	California Resources Production Corporation	33.66898346	-118.0175476
405921074	State Prc 91	63	Plugged	Oil & Gas	California Resources Production Corporation	33.66894913	-118.0174942
405902776	State Prc 392	C-1	Plugged	Oil & Gas	California Resources Production Corporation	33.67952728	-118.0309753
405902784	State Prc 392	C-11	Plugged	Oil & Gas	California Resources Production Corporation	33.67791367	-118.0290985
405902785	State Prc 392	C-14	Plugged	Oil & Gas	California Resources Production Corporation	33.67802429	-118.0292282
405902786	State Prc 392	C-16	Plugged	Oil & Gas	California Resources Production Corporation	33.67829514	-118.0295334
405902787	State Prc 392	C-18	Plugged	Oil & Gas	California Resources Production Corporation	33.6765976	-118.0275574
405902777	State Prc 392	C-2	Plugged	Oil & Gas	California Resources Production Corporation	33.67969131	-118.0311585
405902789	State Prc 392	C-20	Plugged	Oil & Gas	California Resources Production Corporation	33.676651	-118.0276184

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902790	State Prc 392	C-21	Plugged	Oil & Gas	California Resources Production Corporation	33.6764946	-118.0274277
405902791	State Prc 392	C-22	Plugged	Oil & Gas	California Resources Production Corporation	33.67698669	-118.028183
405902793	State Prc 392	C-26	Plugged	Oil & Gas	California Resources Production Corporation	33.67597961	-118.0268326
405902778	State Prc 392	C-3	Plugged	Multi-Purpose	California Resources Production Corporation	33.67963791	-118.0310974
405902794	State Prc 392	C-30	Plugged	Oil & Gas	California Resources Production Corporation	33.67546844	-118.0263977
405902779	State Prc 392	C-4	Plugged	Oil & Gas	California Resources Production Corporation	33.6795845	-118.0310364
405902780	State Prc 392	C-5	Plugged	Waterflood	California Resources Production Corporation	33.67931366	-118.0307236
405902781	State Prc 392	C-6	Plugged	Oil & Gas	California Resources Production Corporation	33.67926025	-118.0306549
405902783	State Prc 392	C-8	Plugged	Waterflood	California Resources Production Corporation	33.67915344	-118.0305328
405902873	State Prc 392	CJ-102B	Plugged	Multi-Purpose	California Resources Production Corporation	33.67608643	-118.0271225
405902799	State Prc 392	CJ-10A	Plugged	Oil & Gas	California Resources Production Corporation	33.67193222	-118.0218506
405902805	State Prc 392	CJ-17B	Plugged	Injection	California Resources Production Corporation	33.67314529	-118.0234909
405900115	State Prc 392	CJ-192B	Plugged	Injection	California Resources Production Corporation	33.67129898	-118.020958
405902996	State Prc 392	CJ-197	Plugged	Injection	California Resources Production Corporation	33.67531586	-118.0261993
405920187	State Prc 392	CJ-198	Plugged	Injection	California Resources Production Corporation	33.6718483	-118.0219116
405902812	State Prc 392	CJ-26A	Plugged	Oil & Gas	California Resources Production Corporation	33.66943741	-118.0183563
405920980	State Prc 392	CJ-281	Plugged	Injection	California Resources Production Corporation	33.67248535	-118.0227814
405902814	State Prc 392	CJ-28A	Plugged	Oil & Gas	California Resources Production Corporation	33.6696434	-118.0186539
405902816	State Prc 392	CJ-30A	Plugged	Injection	California Resources Production Corporation	33.67044449	-118.0197601
405902846	State Prc 392	CJ-69B	Plugged	Oil & Gas	California Resources Production Corporation	33.67067719	-118.0202789
405902797	State Prc 392	CJ-8A	Plugged	Oil & Gas	California Resources Production Corporation	33.67038727	-118.0196915
405907903	Water Source Well	E	Plugged	Water Disposal	California Resources Production Corporation	33.67749786	-118.0284729
405902815	State Prc 392	J 29D	Plugged	Oil & Gas	California Resources Production Corporation	33.67020035	-118.0194244
405900307	State Prc 392	J-103A	Plugged	Multi-Purpose	California Resources Production Corporation	33.67613602	-118.0271835
405900425	State Prc 392	J-106	Plugged	Unknown	California Resources Production Corporation	33.67715454	-118.0283737
405902876	State Prc 392	J-107	Plugged	Oil & Gas	California Resources Production Corporation	33.67635345	-118.0274353
405902878	State Prc 392	J-109B	Plugged	Oil & Gas	California Resources Production Corporation	33.67456055	-118.0253067
405902880	State Prc 392	J-111A	Plugged	Oil & Gas	California Resources Production Corporation	33.67630005	-118.0273743
405902881	State Prc 392	J-112A	Plugged	Unknown	California Resources Production Corporation	33.67052841	-118.0198898
405900209	State Prc 392	J-114A	Plugged	Unknown	California Resources Production Corporation	33.67121124	-118.0210266
405900948	State Prc 392	J-116	Plugged	Oil & Gas	California Resources Production Corporation	33.67006302	-118.0194092
405902884	State Prc 392	J-117A	Plugged	Oil & Gas	California Resources Production Corporation	33.67266083	-118.0228424
405902886	State Prc 392	J-119	Plugged	Oil & Gas	California Resources Production Corporation	33.67404175	-118.0245514

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902887	State Prc 392	J-120	Plugged	Oil & Gas	California Resources Production Corporation	33.67766953	-118.0289764
405900952	State Prc 392	J-122C	Plugged	Oil & Gas	California Resources Production Corporation	33.67140961	-118.0212936
405902889	State Prc 392	J-123	Plugged	Unknown	California Resources Production Corporation	33.67015839	-118.0195465
405902891	State Prc 392	J-125	Plugged	Oil & Gas	California Resources Production Corporation	33.67154694	-118.0213013
405902892	State Prc 392	J-126	Plugged	Oil & Gas	California Resources Production Corporation	33.66938019	-118.0184631
405902893	State Prc 392	J-127	Plugged	Oil & Gas	California Resources Production Corporation	33.6695137	-118.0186462
405902894	State Prc 392	J-128	Plugged	Oil & Gas	California Resources Production Corporation	33.67271805	-118.0227585
405901300	State Prc 392	J-129A	Plugged	Oil & Gas	California Resources Production Corporation	33.6725769	-118.0229111
405902801	State Prc 392	J-12C	Plugged	Unknown	California Resources Production Corporation	33.6720314	-118.0219879
405902903	State Prc 392	J-138	Plugged	Oil & Gas	California Resources Production Corporation	33.67241669	-118.0225143
405902904	State Prc 392	J-139	Plugged	Oil & Gas	California Resources Production Corporation	33.67333603	-118.02388
405902906	State Prc 392	J-141	Plugged	Oil & Gas	California Resources Production Corporation	33.67213058	-118.0222931
405902907	State Prc 392	J-142	Plugged	Oil & Gas	California Resources Production Corporation	33.67582321	-118.0266495
405900112	State Prc 392	J-144	Plugged	Oil & Gas	California Resources Production Corporation	33.67145538	-118.0213623
405902908	State Prc 392	J-145	Plugged	Oil & Gas	California Resources Production Corporation	33.66885757	-118.0177307
405902909	State Prc 392	J-147	Plugged	Oil & Gas	California Resources Production Corporation	33.66891098	-118.017807
405902995	State Prc 392	J-157	Plugged	Oil & Gas	California Resources Production Corporation	33.67105865	-118.0206223
405903138	State Prc 392	J-158A	Plugged	Oil & Gas	California Resources Production Corporation	33.67640686	-118.0274963
405901862	State Prc 392	J-160B	Plugged	Oil & Gas	California Resources Production Corporation	33.67741776	-118.0286865
405903140	State Prc 425	J-161	Plugged	Oil & Gas	California Resources Production Corporation	33.67752457	-118.0288086
405903141	State Prc 425	J-162	Plugged	Oil & Gas	California Resources Production Corporation	33.67704773	-118.0282517
405920100	State Prc 392	J-164	Plugged	Oil & Gas	California Resources Production Corporation	33.67600632	-118.0270233
405902856	State Prc 392	J-165	Plugged	Oil & Gas	California Resources Production Corporation	33.67670059	-118.0276794
405902910	State Prc 392	J-166	Plugged	Oil & Gas	California Resources Production Corporation	33.67848206	-118.0299149
405903115	State Prc 392	J-168	Plugged	Oil & Gas	California Resources Production Corporation	33.67778015	-118.0290985
405902966	State Prc 392	J-169	Plugged	Oil & Gas	California Resources Production Corporation	33.67453003	-118.0251236
405902804	State Prc 392	J-16C	Plugged	Unknown	California Resources Production Corporation	33.67309189	-118.0234299
405900014	State Prc 392	J-170B	Plugged	Oil & Gas	California Resources Production Corporation	33.67091751	-118.0204163
405903025	State Prc 392	J-175	Plugged	Oil & Gas	California Resources Production Corporation	33.67541885	-118.0263367
405901920	State Prc 392	J-190	Plugged	Oil & Gas	California Resources Production Corporation	33.67219162	-118.022377
405902962	State Prc 392	J-193	Plugged	Unknown	California Resources Production Corporation	33.67643356	-118.0273666
405902830	State Prc 392	J-194	Plugged	Unknown	California Resources Production Corporation	33.67360687	-118.0240326
405902918	State Prc 392	J-195	Plugged	Oil & Gas	California Resources Production Corporation	33.67183304	-118.0216599

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405901922	State Prc 392	J-2	Plugged	Oil & Gas	California Resources Production Corporation	33.66923904	-118.0180893
405902808	State Prc 392	J-20C	Plugged	Waterflood	California Resources Production Corporation	33.67393494	-118.0244293
405902809	State Prc 392	J-21	Plugged	Waterflood	California Resources Production Corporation	33.67398834	-118.0244827
405900207	State Prc 392	J-22B	Plugged	Unknown	California Resources Production Corporation	33.67522812	-118.0259552
405902811	State Prc 392	J-25	Plugged	Oil & Gas	California Resources Production Corporation	33.66938019	-118.0182953
405920972	State Prc 392	J-280A	Plugged	Oil & Gas	California Resources Production Corporation	33.67443466	-118.0250092
405921064	State Prc 392	J-290	Plugged	Unknown	California Resources Production Corporation	33.67146301	-118.0213699
405921071	State Prc 392	J-291	Plugged	Oil & Gas	California Resources Production Corporation	33.67489243	-118.0257111
405921371	State Prc 392	J-295	Plugged	Oil & Gas	California Resources Production Corporation	33.67269897	-118.0228958
405900101	State Prc 392	J-35B	Plugged	Oil & Gas	California Resources Production Corporation	33.67233276	-118.0223846
405900102	State Prc 392	J-36C	Plugged	Oil & Gas	California Resources Production Corporation	33.67512512	-118.0258331
405902823	State Prc 392	J-39	Plugged	Oil & Gas	California Resources Production Corporation	33.66973877	-118.0189438
405902824	State Prc 392	J-41	Plugged	Oil & Gas	California Resources Production Corporation	33.6737709	-118.024231
405902825	State Prc 392	J-42A	Plugged	Unknown	California Resources Production Corporation	33.67370987	-118.0241623
405900104	State Prc 392	J-43A	Plugged	Waterflood	California Resources Production Corporation	33.67325592	-118.023613
405904527	State Prc 392	J-44	Plugged	Unknown	California Resources Production Corporation	33.67330551	-118.0236816
405902826	State Prc 392	J-45	Plugged	Oil & Gas	California Resources Production Corporation	33.67501831	-118.0257034
405900105	State Prc 392	J-49D	Plugged	Oil & Gas	California Resources Production Corporation	33.67539597	-118.0261383
405902832	State Prc 392	J-51B	Plugged	Unknown	California Resources Production Corporation	33.67549896	-118.026268
405902827	State Prc 392	J-52A	Plugged	Unknown	California Resources Production Corporation	33.67606735	-118.0269318
405900106	State Prc 392	J-55	Plugged	Unknown	California Resources Production Corporation	33.66910172	-118.018074
405902835	State Prc 392	J-56B	Plugged	Unknown	California Resources Production Corporation	33.67586899	-118.0267105
405902836	State Prc 392	J-57	Plugged	Oil & Gas	California Resources Production Corporation	33.67589951	-118.0267258
405902837	State Prc 392	J-58	Plugged	Oil & Gas	California Resources Production Corporation	33.67565536	-118.0264511
405902838	State Prc 392	J-59B	Plugged	Multi-Purpose	California Resources Production Corporation	33.67592239	-118.0267716
405902839	State Prc 392	J-60B	Plugged	Multi-Purpose	California Resources Production Corporation	33.66976166	-118.0189896
405901001	State Prc 392	J-63B	Plugged	Unknown	California Resources Production Corporation	33.67213058	-118.0221176
405902795	State Prc 392	J-6D	Plugged	Multi-Purpose	California Resources Production Corporation	33.6702919	-118.0195618
405902851	State Prc 392	J-77	Plugged	Oil & Gas	California Resources Production Corporation	33.6749382	-118.0257645
405902796	State Prc 392	J-7A	Plugged	Oil & Gas	California Resources Production Corporation	33.67030334	-118.0196304
405902854	State Prc 392	J-82A	Plugged	Unknown	California Resources Production Corporation	33.6718483	-118.021904
405902855	State Prc 392	J-83	Plugged	Oil & Gas	California Resources Production Corporation	33.67654419	-118.0274887
405902857	State Prc 392	J-85B	Plugged	Oil & Gas	California Resources Production Corporation	33.67512894	-118.0259781

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902861	State Prc 392	J-89B	Plugged	Unknown	California Resources Production Corporation	33.67247772	-118.0227737
405902864	State Prc 392	J-92A	Plugged	Multi-Purpose	California Resources Production Corporation	33.6729126	-118.0233841
405902866	State Prc 392	J-95A	Plugged	Oil & Gas	California Resources Production Corporation	33.67317963	-118.0236893
405900424	State Prc 392	J-96B	Plugged	Oil & Gas	California Resources Production Corporation	33.673516	-118.023208
405902867	State Prc 392	J-97A	Plugged	Oil & Gas	California Resources Production Corporation	33.6748848	-118.0257034
405902798	State Prc 392	J-9A	Plugged	Unknown	California Resources Production Corporation	33.67188263	-118.0217896
405902922	State Prc 392	S-10	Plugged	Oil & Gas	California Resources Production Corporation	33.6749649	-118.0256424
405903013	State Prc 392	S-100	Plugged	Oil & Gas	California Resources Production Corporation	33.67675781	-118.0277481
405903014	State Prc 392	S-101B	Plugged	Unknown	California Resources Production Corporation	33.67178345	-118.021637
405903015	State Prc 392	S-102	Plugged	Oil & Gas	California Resources Production Corporation	33.67192841	-118.0219955
405903016	State Prc 392	S-103	Plugged	Oil & Gas	California Resources Production Corporation	33.67202759	-118.0221252
405903017	State Prc 392	S-104	Plugged	Oil & Gas	California Resources Production Corporation	33.67726517	-118.0284882
405903018	State Prc 392	S-105	Plugged	Oil & Gas	California Resources Production Corporation	33.67991257	-118.0314102
405903020	State Prc 392	S-107	Plugged	Unknown	California Resources Production Corporation	33.67979813	-118.0312805
405903021	State Prc 392	S-108	Plugged	Oil & Gas	California Resources Production Corporation	33.67974091	-118.0312195
405903022	State Prc 392	S-109	Plugged	Unknown	California Resources Production Corporation	33.67947388	-118.0309067
405902923	State Prc 392	S-11	Plugged	Unknown	California Resources Production Corporation	33.67622375	-118.0271149
405903024	State Prc 392	S-111	Plugged	Waterflood	California Resources Production Corporation	33.67936707	-118.0307922
405903026	State Prc 392	S-113	Plugged	Oil & Gas	California Resources Production Corporation	33.67552948	-118.0264587
405903027	State Prc 392	S-114	Plugged	Unknown	California Resources Production Corporation	33.67713165	-118.028183
405903029	State Prc 392	S-116A	Plugged	Oil & Gas	California Resources Production Corporation	33.67563248	-118.0265884
405903030	State Prc 392	S-117	Plugged	Oil & Gas	California Resources Production Corporation	33.6768074	-118.0278091
405903031	State Prc 392	S-118	Plugged	Oil & Gas	California Resources Production Corporation	33.67685699	-118.0278702
405903034	State Prc 392	S-121	Plugged	Oil & Gas	California Resources Production Corporation	33.67707443	-118.028122
405903035	State Prc 392	S-122B	Plugged	Unknown	California Resources Production Corporation	33.67718506	-118.028244
405903036	State Prc 392	S-123	Plugged	Unknown	California Resources Production Corporation	33.67034912	-118.0198212
405903038	State Prc 392	S-125A	Plugged	Unknown	California Resources Production Corporation	33.67011642	-118.0194778
405903039	State Prc 392	S-126	Plugged	Oil & Gas	California Resources Production Corporation	33.67882538	-118.030159
405903040	State Prc 392	S-127	Plugged	Unknown	California Resources Production Corporation	33.6788826	-118.03022
405903041	State Prc 392	S-128	Plugged	Oil & Gas	California Resources Production Corporation	33.678936	-118.0302887
405902924	State Prc 392	S-12A	Plugged	Oil & Gas	California Resources Production Corporation	33.67750168	-118.0286179
405903043	State Prc 392	S-130B	Plugged	Unknown	California Resources Production Corporation	33.67092896	-118.0206146
405903045	State Prc 392	S-132B	Plugged	Oil & Gas	California Resources Production Corporation	33.67242432	-118.0227051

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405903052	State Prc 392	S-139	Plugged	Unknown	California Resources Production Corporation	33.66884613	-118.01754
405903054	State Prc 392	S-142	Plugged	Unknown	California Resources Production Corporation	33.6781311	-118.0293503
405903055	State Prc 392	S-143	Plugged	Unknown	California Resources Production Corporation	33.67818069	-118.0294113
405903056	State Prc 392	S-144	Plugged	Unknown	California Resources Production Corporation	33.67824173	-118.0294647
405903057	State Prc 392	S-145A	Plugged	Multi-Purpose	California Resources Production Corporation	33.66876984	-118.0172348
405903059	State Prc 392	S-147	Plugged	Waterflood	California Resources Production Corporation	33.67021179	-118.0196075
405903060	State Prc 392	S-148	Plugged	Oil & Gas	California Resources Production Corporation	33.67030716	-118.0197449
405902926	State Prc 392	S-15	Plugged	Oil & Gas	California Resources Production Corporation	33.66924286	-118.0180893
405903061	State Prc 392	S-151	Plugged	Oil & Gas	California Resources Production Corporation	33.67116165	-118.0209427
405903137	State Prc 392	S-153	Plugged	Unknown	California Resources Production Corporation	33.67380142	-118.0244217
405902840	State Prc 392	S-154A	Plugged	Oil & Gas	California Resources Production Corporation	33.66980743	-118.0190582
405902858	State Prc 392	S-156	Plugged	Oil & Gas	California Resources Production Corporation	33.67224884	-118.0224533
405902862	State Prc 392	S-157	Plugged	Oil & Gas	California Resources Production Corporation	33.67306137	-118.0235672
405902802	State Prc 392	S-158	Plugged	Oil & Gas	California Resources Production Corporation	33.67298889	-118.0233002
405902927	State Prc 392	S-16	Plugged	Oil & Gas	California Resources Production Corporation	33.66928864	-118.018158
405900119	State Prc 392	S-167	Plugged	Oil & Gas	California Resources Production Corporation	33.67159271	-118.0213699
405920906	State Prc 392	S-168	Plugged	Unknown	California Resources Production Corporation	33.67497253	-118.02565
405920966	State Prc 392	S-169	Plugged	Oil & Gas	California Resources Production Corporation	33.67424774	-118.0249405
405902928	State Prc 392	S-17	Plugged	Oil & Gas	California Resources Production Corporation	33.66934204	-118.0182266
405920982	State Prc 392	S-170	Plugged	Oil & Gas	California Resources Production Corporation	33.67179871	-118.0216522
405920985	State Prc 392	S-171	Plugged	Oil & Gas	California Resources Production Corporation	33.67851639	-118.0297928
405920986	State Prc 392	S-172	Plugged	Oil & Gas	California Resources Production Corporation	33.67326736	-118.0236206
405902929	State Prc 392	S-18	Plugged	Oil & Gas	California Resources Production Corporation	33.66974258	-118.0187912
405902930	State Prc 392	S-19	Plugged	Unknown	California Resources Production Corporation	33.66979218	-118.0188599
405902931	State Prc 392	S-20A	Plugged	Multi-Purpose	California Resources Production Corporation	33.66983795	-118.0189285
405902934	State Prc 392	S-23B	Plugged	Oil & Gas	California Resources Production Corporation	33.67029953	-118.0195541
405902935	State Prc 392	S-24	Plugged	Unknown	California Resources Production Corporation	33.6703949	-118.0196991
405902936	State Prc 392	S-25	Plugged	Oil & Gas	California Resources Production Corporation	33.67081451	-118.0202789
405902937	State Prc 392	S-26B	Plugged	Multi-Purpose	California Resources Production Corporation	33.67086792	-118.0203476
405902939	State Prc 392	S-29	Plugged	Unknown	California Resources Production Corporation	33.67024231	-118.0194931
405902942	State Prc 392	S-32	Plugged	Oil & Gas	California Resources Production Corporation	33.67436981	-118.0249405
405900116	State Prc 392	S-33	Plugged	Oil & Gas	California Resources Production Corporation	33.67627335	-118.0271759
405902945	State Prc 392	S-36A	Plugged	Oil & Gas	California Resources Production Corporation	33.6730957	-118.0234222

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405902946	State Prc 392	S-37A	Plugged	Unknown	California Resources Production Corporation	33.67314529	-118.0234909
405902947	State Prc 392	S-38A	Plugged	Oil & Gas	California Resources Production Corporation	33.67135239	-118.0210266
405902949	State Prc 392	S-41	Plugged	Oil & Gas	California Resources Production Corporation	33.67150116	-118.0212326
405902957	State Prc 392	S-44A	Plugged	Unknown	California Resources Production Corporation	33.67256165	-118.0227127
405902958	State Prc 392	S-45A	Plugged	Oil & Gas	California Resources Production Corporation	33.67261124	-118.0227814
405902959	State Prc 392	S-46A	Plugged	Oil & Gas	California Resources Production Corporation	33.67320251	-118.0235596
405902961	State Prc 392	S-48B	Plugged	Oil & Gas	California Resources Production Corporation	33.67637634	-118.0273056
405902964	State Prc 392	S-50A	Plugged	Unknown	California Resources Production Corporation	33.67755508	-118.0286789
405900118	State Prc 392	S-51	Plugged	Oil & Gas	California Resources Production Corporation	33.67442703	-118.0250015
405902967	State Prc 392	S-54	Plugged	Unknown	California Resources Production Corporation	33.67760849	-118.0287476
405902968	State Prc 392	S-55A	Plugged	Unknown	California Resources Production Corporation	33.67745209	-118.0285568
405902970	State Prc 392	S-57	Plugged	Unknown	California Resources Production Corporation	33.66904449	-118.0178146
405902972	State Prc 392	S-59A	Plugged	Oil & Gas	California Resources Production Corporation	33.66905594	-118.018013
405902973	State Prc 392	S-60	Plugged	Oil & Gas	California Resources Production Corporation	33.66915131	-118.0181503
405902974	State Prc 392	S-61	Plugged	Oil & Gas	California Resources Production Corporation	33.66918564	-118.0181732
405902977	State Prc 392	S-64A	Plugged	Oil & Gas	California Resources Production Corporation	33.66986084	-118.0191269
405902978	State Prc 392	S-65	Plugged	Oil & Gas	California Resources Production Corporation	33.67417908	-118.024704
405902979	State Prc 392	S-66A	Plugged	Unknown	California Resources Production Corporation	33.67555237	-118.026329
405902980	State Prc 392	S-67B	Plugged	Waterflood	California Resources Production Corporation	33.67560959	-118.0263901
405902982	State Prc 392	S-69	Plugged	Oil & Gas	California Resources Production Corporation	33.67576599	-118.0265884
405902919	State Prc 392	S-7	Plugged	Unknown	California Resources Production Corporation	33.67298889	-118.0233154
405902983	State Prc 392	S-70	Plugged	Oil & Gas	California Resources Production Corporation	33.66991043	-118.0191956
405902984	State Prc 392	S-71B	Plugged	Oil & Gas	California Resources Production Corporation	33.67064667	-118.0202255
405902985	State Prc 392	S-72A	Plugged	Oil & Gas	California Resources Production Corporation	33.6741333	-118.0248032
405902986	State Prc 392	S-73	Plugged	Oil & Gas	California Resources Production Corporation	33.67418671	-118.0248642
405902991	State Prc 392	S-78	Plugged	Waterflood	California Resources Production Corporation	33.67363358	-118.024231
405902992	State Prc 392	S-79A	Plugged	Oil & Gas	California Resources Production Corporation	33.67082214	-118.0204773
405902993	State Prc 392	S-80	Plugged	Oil & Gas	California Resources Production Corporation	33.67096329	-118.0204849
405902997	State Prc 392	S-84	Plugged	Oil & Gas	California Resources Production Corporation	33.67775345	-118.0289078
405902998	State Prc 392	S-85	Plugged	Oil & Gas	California Resources Production Corporation	33.67770004	-118.0288544
405902999	State Prc 392	S-86A	Plugged	Oil & Gas	California Resources Production Corporation	33.67612457	-118.0269928
405903001	State Prc 392	S-88	Plugged	Oil & Gas	California Resources Production Corporation	33.67786026	-118.0290375
405903002	State Prc 392	S-89	Plugged	Oil & Gas	California Resources Production Corporation	33.67780685	-118.0289764

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405903003	State Prc 392	S-90	Plugged	Oil & Gas	California Resources Production Corporation	33.67796707	-118.0291519
405903004	State Prc 392	S-91A	Plugged	Oil & Gas	California Resources Production Corporation	33.6780777	-118.0292893
405903007	State Prc 392	S-94	Plugged	Unknown	California Resources Production Corporation	33.67499161	-118.0258255
405903009	State Prc 392	S-96	Plugged	Unknown	California Resources Production Corporation	33.67834091	-118.0296021
405903010	State Prc 392	S-97A	Plugged	Oil & Gas	California Resources Production Corporation	33.67839813	-118.0296631
405903012	State Prc 392	S-99	Plugged	Oil & Gas	California Resources Production Corporation	33.67850494	-118.0297852
405902971	State 91 Mzu	S915	Plugged	Waterflood	California Resources Production Corporation	33.66895676	-118.0178757
405902925	State 91 Mzu	S916	Plugged	Waterflood	California Resources Production Corporation	33.66919708	-118.018013
405903047	State Prc 392	T-1	Plugged	Oil & Gas	California Resources Production Corporation	33.6729393	-118.0232468
405903136	State Prc 392	T-10	Plugged	Oil & Gas	California Resources Production Corporation	33.67710114	-118.0283127
405920652	State Prc 392	T-14	Plugged	Oil & Gas	California Resources Production Corporation	33.67427444	-118.0248184
405902865	State Prc 392	T-18	Plugged	Oil & Gas	California Resources Production Corporation	33.67329025	-118.0238113
405920699	State Prc 392	T-19	Plugged	Oil & Gas	California Resources Production Corporation	33.67063904	-118.0202026
405903126	State Prc 392	T-2	Plugged	Oil & Gas	California Resources Production Corporation	33.67469025	-118.0253143
405920700	State Prc 392	T-20	Plugged	Oil & Gas	California Resources Production Corporation	33.66971588	-118.0189285
405920978	State Prc 392	T-31	Plugged	Multi-Purpose	California Resources Production Corporation	33.67251968	-118.0228348
405921112	State Prc 392	T-33	Plugged	Oil & Gas	California Resources Production Corporation	33.67332077	-118.0236969
405921137	State Prc 392	T-35	Plugged	Oil & Gas	California Resources Production Corporation	33.67399979	-118.024498
405921153	State Prc 392	T-36	Plugged	Oil & Gas	California Resources Production Corporation	33.67534637	-118.0260849
405921172	State Prc 392	T-37	Plugged	Oil & Gas	California Resources Production Corporation	33.67727661	-118.0284958
405921168	State Prc 392	T-39	Plugged	Oil & Gas	California Resources Production Corporation	33.67697906	-118.0280075
405921166	State Prc 392	T-48	Plugged	Oil & Gas	California Resources Production Corporation	33.67797089	-118.0291519
405921184	State Prc 392	T-49	Plugged	Oil & Gas	California Resources Production Corporation	33.67902374	-118.0305405
405921167	State Prc 392	T-52	Plugged	Oil & Gas	California Resources Production Corporation	33.6704483	-118.0197678
405903080	State Prc 392	T-7	Plugged	Oil & Gas	California Resources Production Corporation	33.67458344	-118.0251923
405903086	State Prc 392	T-8	Plugged	Oil & Gas	California Resources Production Corporation	33.67449951	-118.0252533
405900100	State Prc 392	T-9	Plugged	Oil & Gas	California Resources Production Corporation	33.67528534	-118.0260162
405902888	State Prc 392	UJ-121A	Plugged	Oil & Gas	California Resources Production Corporation	33.67131424	-118.0211563
405902895	State Prc 392	UJ-130A	Plugged	Waterflood	California Resources Production Corporation	33.66860962	-118.017395
405902896	State Prc 392	UJ-131A	Plugged	Waterflood	California Resources Production Corporation	33.66871643	-118.0175247
405902898	State Prc 392	UJ-133A	Plugged	Waterflood	California Resources Production Corporation	33.66880798	-118.0176621
405920051	State Prc 392	UJ-171A	Plugged	Injection	California Resources Production Corporation	33.67348099	-118.0240479
405903046	State Prc 392	UJ-172	Plugged	Waterflood	California Resources Production Corporation	33.67252731	-118.0228424

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405920114	State Prc 392	UJ-177	Plugged	Waterflood	California Resources Production Corporation	33.67150879	-118.021431
405902940	State Prc 392	UJ-178	Plugged	Waterflood	California Resources Production Corporation	33.67188644	-118.0217819
405920145	State Prc 392	UJ-183	Plugged	Unknown	California Resources Production Corporation	33.67106247	-118.0208054
405903053	State Prc 392	UJ-186	Plugged	Waterflood	California Resources Production Corporation	33.66866302	-118.0174637
405920685	State Prc 425	UJ-187	Plugged	Oil & Gas	California Resources Production Corporation	33.67354584	-118.0241165
405920687	State Prc 392	UJ-188	Plugged	Waterflood	California Resources Production Corporation	33.67184448	-118.0217209
405902911	State Prc 392	UJ-191	Plugged	Waterflood	California Resources Production Corporation	33.67396545	-118.0246124
405920297	State Prc 392	UJ-199	Plugged	Unknown	California Resources Production Corporation	33.67117691	-118.0207825
405920696	State Prc 392	UJ-251A	Plugged	Waterflood	California Resources Production Corporation	33.67195511	-118.0220413
405920917	State Prc 392	UJ-254	Plugged	Oil & Gas	California Resources Production Corporation	33.67518616	-118.0259018
405920731	State Prc 392	UJ-255	Plugged	Oil & Gas	California Resources Production Corporation	33.67219925	-118.0223846
425903044	State Prc 392	UJ-258	Plugged	Waterflood	California Resources Production Corporation	33.67233276	-118.0225678
405920762	State Prc 392	UJ-259	Plugged	Oil & Gas	California Resources Production Corporation	33.67397308	-118.0246201
405902989	State Prc 392	UJ-260	Plugged	Oil & Gas	California Resources Production Corporation	33.67435074	-118.0250549
405920773	State Prc 392	UJ-261	Plugged	Oil & Gas	California Resources Production Corporation	33.67323685	-118.0237579
405920778	State Prc 392	UJ-263	Plugged	Waterflood	California Resources Production Corporation	33.67464828	-118.0252609
405920784	State Prc 392	UJ-264	Plugged	Oil & Gas	California Resources Production Corporation	33.6736412	-118.0242386
405920785	State Prc 392	UJ-265	Plugged	Oil & Gas	California Resources Production Corporation	33.67229462	-118.022522
405920954	State Prc 392	UJ-267	Plugged	Unknown	California Resources Production Corporation	33.67513657	-118.0258408
405920793	State Prc 392	UJ-268	Plugged	Oil & Gas	California Resources Production Corporation	33.67145538	-118.0211716
405920923	State Prc 392	UJ-270	Plugged	Multi-Purpose	California Resources Production Corporation	33.67705154	-118.0282593
405921049	State Prc 392	UJ-272	Plugged	Waterflood	California Resources Production Corporation	33.67620468	-118.0272598
405921001	State Prc 392	UJ-282	Plugged	Injection	California Resources Production Corporation	33.67087936	-118.0205612
405902990	State Prc 392	UJ-293	Plugged	Waterflood	California Resources Production Corporation	33.67322922	-118.0237503
405902822	State Prc 392	UJ-38A	Plugged	Waterflood	California Resources Production Corporation	33.66961288	-118.0187912
405901924	State Prc 392	UJ-4A	Plugged	Waterflood	California Resources Production Corporation	33.66933441	-118.0182343
405902833	State Prc 392	UJ-53D	Plugged	Waterflood	California Resources Production Corporation	33.67518234	-118.0258942
405902834	State Prc 392	UJ-54	Plugged	Oil & Gas	California Resources Production Corporation	33.66900253	-118.0179443
405902844	State Prc 392	UJ-66A	Plugged	Oil & Gas	California Resources Production Corporation	33.6719017	-118.021965
405902847	State Prc 392	UJ-70B	Plugged	Oil & Gas	California Resources Production Corporation	33.67072678	-118.02034
405902859	State Prc 392	UJ-87	Plugged	Waterflood	California Resources Production Corporation	33.6722908	-118.0225143
405902860	State Prc 392	UJ-88B	Plugged	Oil & Gas	California Resources Production Corporation	33.67238235	-118.0226364
405902863	State Prc 392	UJ-91C	Plugged	Waterflood	California Resources Production Corporation	33.67301559	-118.0234985

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405921053	State Prc 425	UMZ-586	Plugged	Oil & Gas	California Resources Production Corporation	33.67938995	-118.0309677
405920356	Lease by California Resources Production Corporation	WD-11	Plugged	Oil & Gas	California Resources Production Corporation	33.67247391	-118.0221176
405903761	Huntington B	100-B	Plugged	Unknown	Chevron U.S.A. Inc.	33.67404175	-118.021492
405903762	Huntington B	101	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67605209	-118.0254135
405903763	Huntington B	102	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67295074	-118.0223618
405903765	Huntington B	104	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67904282	-118.0303879
405903768	Huntington B	107	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.680336	-118.0314865
405903769	Huntington B	108	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67766953	-118.028717
405904529	Huntington B	114	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67396927	-118.0237427
405903778	Huntington B	119	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67484665	-118.0227966
405903779	Huntington B	120	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67768478	-118.0286026
405903780	Huntington B	121	Plugged	Unknown	Chevron U.S.A. Inc.	33.67684555	-118.0278091
405900152	Huntington B	127-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67175674	-118.0186081
405903785	Huntington B	130	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67884445	-118.0286713
405903814	Huntington B	162	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67049789	-118.0182648
405903815	Huntington B	163	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67336273	-118.0205994
405903817	Huntington B	165	Plugged	Unknown	Chevron U.S.A. Inc.	33.67145538	-118.0191956
405903819	Huntington B	167	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67062378	-118.0184784
405903825	Huntington B	173	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66986084	-118.0166245
405900902	Huntington B	179	Plugged	Unknown	Chevron U.S.A. Inc.	33.67261124	-118.0204849
405903831	Huntington B	180	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67355728	-118.0218658
405903835	Huntington B	184	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67177963	-118.0192947
405903837	Huntington B	187	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67602539	-118.025116
405903838	Huntington B	188	Plugged	Unknown	Chevron U.S.A. Inc.	33.67290497	-118.0216751
405903839	Huntington B	189	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67407227	-118.0218735
405903841	Huntington B	191	Plugged	Unknown	Chevron U.S.A. Inc.	33.67489624	-118.0229034
405903844	Huntington B	196-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67072678	-118.0185013
405903846	Huntington B	198	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67256927	-118.0199509
405903852	Huntington B	204	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67864227	-118.0283203
405903858	Huntington B	210	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.6744194	-118.0245667
405903859	Huntington B	211	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.6739502	-118.0217362
405903864	Huntington B	216	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67110443	-118.0202789
405903865	Huntington B	217	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67155838	-118.0182343

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405903874	Huntington B	219	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67220688	-118.0220947
405904168	Pacific Electric	222	Plugged	Unknown	Chevron U.S.A. Inc.	33.67215347	-118.0219803
405903875	Huntington B	225	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67380142	-118.0236816
405904169	Pacific Electric	227	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67194748	-118.0217667
405900159	Huntington B	228	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67087936	-118.0181809
405903877	Huntington B	230	Plugged	Unknown	Chevron U.S.A. Inc.	33.67245483	-118.0194855
405900160	Huntington B	231	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66983795	-118.0187073
405904170	Pacific Electric	232	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67121887	-118.0206375
405900161	Huntington B	233	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67205429	-118.0218964
405900156	Huntington B	235-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67247009	-118.0199356
405920026	Huntington B	236	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67383575	-118.0216751
405920335	Huntington B	241	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67296219	-118.0205994
405920340	Huntington B	242	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67303848	-118.0206757
405920346	Huntington B	243	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67389297	-118.0220795
405920569	Huntington B	248	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67889786	-118.0275192
405920635	Huntington B	249	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67092896	-118.0201569
405920883	Pacific Electric	250	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67289734	-118.0224152
405920904	Huntington B	251	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67103195	-118.0203095
405920918	Huntington B	253	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67411423	-118.0241318
405903704	Huntington B	34	Plugged	Multi-Purpose	Chevron U.S.A. Inc.	33.67710876	-118.0255203
405903707	Huntington B	38	Plugged	Unknown	Chevron U.S.A. Inc.	33.67603302	-118.0268478
405903526	Huntington B	39	Plugged	Waterflood	Chevron U.S.A. Inc.	33.67620087	-118.0242615
405903708	Huntington B	40	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67799759	-118.0267792
405903709	Huntington B	41	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67399597	-118.0221024
405903712	Huntington B	44	Plugged	Unknown	Chevron U.S.A. Inc.	33.67508698	-118.0231171
405903715	Huntington B	47	Plugged	Unknown	Chevron U.S.A. Inc.	33.67308807	-118.020874
405904151	Pacific Electric	50	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67035675	-118.0194244
405904152	Pacific Electric	51	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.6692276	-118.0167236
405903718	Huntington B	52	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66926575	-118.0171356
405903719	Huntington B	53	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.6697464	-118.0167999
405903724	Huntington B	58	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67060089	-118.0173187
405903725	Huntington B	59	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66953278	-118.0184555
405904159	Pacific Electric	59	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67484665	-118.0252457

API	Lease Name	Well Number	Well Status	Well Type Label	Operator Name	Latitude	Longitude
405904160	Pacific Electric	61	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66975403	-118.0185394
405903730	Huntington B	64	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66892624	-118.0176468
405903731	Huntington B	65	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67110443	-118.0206528
405903732	Huntington B	66	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67004013	-118.0192108
405903733	Huntington B	67	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67057419	-118.0199356
405903734	Huntington B	68	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67163467	-118.0214539
405903735	Huntington B	69-B	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67284393	-118.0230331
405903088	Huntington C	7	Plugged	Waterflood	Chevron U.S.A. Inc.	33.67736435	-118.0286102
405903736	Huntington B	70	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67369461	-118.0240936
405903737	Huntington B	71	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67412186	-118.0246201
405903738	Huntington B	72	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67222214	-118.0222626
405903739	Huntington B	73	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67485809	-118.025383
405903740	Huntington B	74-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.6725769	-118.0214386
405903741	Huntington B	75	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67068863	-118.019661
405903742	Huntington B	76	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67116928	-118.0176544
405903743	Huntington B	77-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67256165	-118.0194397
405903226	Huntington B	78	Plugged	Unknown	Chevron U.S.A. Inc.	33.66909027	-118.0172195
405900947	Huntington B	79-A	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67080307	-118.019783
405903746	Huntington B	84	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.66989136	-118.0185165
405903747	Huntington B	85	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67156601	-118.0192566
405903748	Huntington B	86	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67149353	-118.0207977
405904534	Huntington B	88	Plugged	Unknown	Chevron U.S.A. Inc.	33.67225266	-118.0201645
405903752	Huntington B	91-A	Plugged	Unknown	Chevron U.S.A. Inc.	33.67081451	-118.0183258
405903753	Huntington B	92	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67372131	-118.0220413
405903757	Huntington B	96	Plugged	Unknown	Chevron U.S.A. Inc.	33.67461395	-118.0235062
405907898	Lease by Chevron U.S.A. Inc.	WS-3	Plugged	Water Disposal	Chevron U.S.A. Inc.	33.67540741	-118.0247269
405907899	Lease by Chevron U.S.A. Inc.	WS-4	Plugged	Water Disposal	Chevron U.S.A. Inc.	33.67610168	-118.0251923
405907900	Lease by Chevron U.S.A. Inc.	WS-5	Plugged	Oil & Gas	Chevron U.S.A. Inc.	33.67683792	-118.0261688
405907901	Lease by Chevron U.S.A. Inc.	WS-6	Plugged	Water Disposal	Chevron U.S.A. Inc.	33.67774582	-118.0263214
405907902	Lease by Chevron U.S.A. Inc.	WS-9	Plugged	Water Disposal	Chevron U.S.A. Inc.	33.67827606	-118.0281296
405921705	State Prc 392	700	Canceled	Oil & Gas	Oxy USA Inc.	33.67460251	-118.0249252
405921323	State Prc 425	UJ-294	Canceled	Oil & Gas	Shell Western E&P Inc.	33.67402649	-118.0246811

City of Huntington Beach
Department of Community Development
2000 Main Street Huntington Beach, CA 92648
For Inspections go to:
https://huntingtonbeachca.gov/aca

Building Permit

Permit Number:	B2024-004210	**Valuation:**	$54,900	**Date Issued:**	07/17/2024
Building Address:	20101 Goldenwest St			**APN:**	023-181-54
Block:	2	**Tract:**		**Lot:**	
No. Stories:		**Zone:**	SP	**Code Year:**	

Owner	Contractor	Agent
SOCAL HOLDING LLC 27200 TOURNEY RD STE 315 SANTA CLARITA CA 91355-5389	REMEDIAL TRANSPORTATION SERVICES INC P O BOX 81856 BAKERSFIELD CA 93380 (661) 746 1132	

Architect	Engineer	Designer

Project Description: DEMOLISH 2800 SF CHEMICAL LAB ***SOCAL HOLDING LLC***

Description:	Occupancy Group:	Area (Sq Ft):	Const. Type:	Occupancy Load:

Permit Fees:

Building Inspection	985.00
Building Plan Review	600.85
California Building Standards Fee	3.00
Fire Plan Check - Building Permits	252.50
Permit Processing	39.00
Planning Plan Review	453.10
Record Retention Fee - Each Issued Permit	1.00
State of California - Commercial SMIP	15.37
Technology Automation Fee	139.89

Total Fees:	$2,489.71
Total Paid:	$2,489.71
Balance Due:	**$0.00**

Permit Number: B2024-004210

Permit Total:	$2,038.95

Fee Item	Unit Type	Quantity	Fees
Building			
Building Inspection	Flat	1.00	$985.00
Building Plan Review	Permit	985.00	$600.85
Planning Plan Review	Permit	985.00	$453.10

I certify that I have read this construction application and that the information I have provided is correct and I agree to comply with all City and County ordinances and State Laws relating to building construction.

I shall be responsible to ensure all improvements are consistent with applicable HOA.

I shall be responsible to verify and ensure this construction does not encroach onto or violate the restrictions of any existing property easements.

I authorize representatives of this City to enter upon the identified property for inspection purposes.

I understand that all refunds are subject to a processing fee as listed in the City Master Fee Schedule.

IF WORK IS NOT COMMENCED 1 YEAR FROM DATE OF ISSUE OF THIS PERMIT, OR IF THE WORK IS ABANDONED, THIS PERMIT SHALL BE SUBJECT TO EXPIRATION.

LICENSE & WORKERS' COMPENSATION DECLARATION (for Contractors only)
I hereby affirm under penalty of perjury:

1) I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

2) I have and will maintain workers compensation insurance or a certificate of consent to self-insure, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued; Unless, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

By my signature below, I certify I am either a Licensed Contractor, Property Owner* or Authorized Agent**
*Requires separate verification form
**Requires separate authorization form

Signature: _____ Date: _____

City of Huntington Beach

Department of Community Development

2000 Main Street Huntington Beach, CA 92648
For Inspections go to:
https://huntingtonbeachca.gov/aca

Building Permit

Permit Number:	B2024-004143	**Valuation:**	$226,550	**Date Issued:**	07/23/2024
Building Address:	20101 Goldenwest St			**APN:**	023-181-54
Block:	2	**Tract:**		**Lot:**	
No. Stories:		**Zone:**	SP	**Code Year:**	

Owner	Contractor	Agent
SOCAL HOLDING LLC 27200 TOURNEY RD STE 315 SANTA CLARITA CA 91355-5389	REMEDIAL TRANSPORTATION SERVICES INC P O BOX 81856 BAKERSFIELD CA 93380 (661) 746 1132	

Architect	Engineer	Designer

Project Description: DEMOLISH 15,230 SF OFFICE BUILDING ***SOCAL HOLDING LLC***

Description:	Occupancy Group:	Area (Sq Ft):	Const. Type:	Occupancy Load:

Permit Fees:

Building Inspection	2125.50
Building Plan Review	1296.56
California Building Standards Fee	10.00
Fire Plan Check - Building Permits	386.85
Permit Processing	39.00
Planning Plan Review	977.73
Record Retention Fee - Each Issued Permit	1.00
State of California - Commercial SMIP	63.43
Technology Automation Fee	289.60

Total Fees:	$6,410.01
Total Paid:	$5,189.67
Balance Due:	**$0.00**

Permit Number: B2024-004143

		Permit Total:	$5,620.13
Fee Item	**Unit Type**	**Quantity**	**Fees**
Building			
Building Inspection	Flat	1.00	$2125.50
Building Plan Review	Permit	2,125.50	$1296.56
Planning Plan Review	Permit	2,125.50	$977.73
Building Plan Review	Permit	1,140.50	$695.71
Planning Plan Review	Permit	1,140.50	$524.63

I certify that I have read this construction application and that the information I have provided is correct and I agree to comply with all City and County ordinances and State Laws relating to building construction.

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2) I have and will maintain workers compensation insurance or a certificate of consent to self-insure, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued; Unless, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

By my signature below, I certify I am either a Licensed Contractor, Property Owner* or Authorized Agent**
*Requires separate verification form
**Requires separate authorization form

☑ Application electronically signed by Date: 6/18/2024

City of Huntington Beach

Department of Community Development

2000 Main Street Huntington Beach, CA 92648
For Inspections go to:
https://huntingtonbeachca.gov/aca

Building Permit

Permit Number:	B2023-001636	**Valuation:**	$15,000	**Date Issued:**	06/01/2023
Building Address:	20101 Goldenwest St			**APN:**	023-181-54
Block:		**Tract:**	6	**Lot:**	
No. Stories:		**Zone:**	SP	**Code Year:**	

Owner	Contractor	Agent
SOCAL HOLDING LLC 27200 TOURNEY RD STE 315 SANTA CLARITA CA 91355-5389 7149693221	MASTEC NETWORK SOLUTIONS INC 1825 PONCE DE LEON BLVD #543 CORAL GABLES FL 33134 (866) 545 1782	

Architect	Engineer	Designer
	MADHAN KANTHA SAMY CA	

Project Description: CELL SITE MODIFICATION ***T-MOBILE***

Description:	Occupancy Group:	Area (Sq Ft):	Const. Type:	Occupancy Load:

Permit Fees:

Building Inspection	404.41
Building Plan Review	246.69
California Building Standards Fee	1.00
Fire Plan Check - Building Permits	170.93
Permit Processing	34.00
Planning Plan Review	186.03
Record Retention Fee - Each Issued Permit	1.00
State of California - Commercial SMIP	4.20
Technology Automation Fee	62.58

Total Fees:	$1,110.84
Total Paid:	$1,110.84
Balance Due:	**$0.00**

Permit Number: B2023-001636

		Permit Total:	$837.13
Fee Item	**Unit Type**	**Quantity**	**Fees**
Building			
Building Inspection	Flat	1.00	$404.41
Building Plan Review	Permit	404.41	$246.69
Planning Plan Review	Permit	404.41	$186.03

I certify that I have read this construction application and that the information I have provided is correct and I agree to comply with all City and County ordinances and State Laws relating to building construction.

I shall be responsible to ensure all improvements are consistent with applicable HOA.

I authorize representatives of this City to enter upon the identified property for inspection purposes.

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By my signature below, I certify I am either a Licensed Contractor, Property Owner* or Authorized Agent**
*Requires separate verification form
**Requires separate authorization form

Signature: _____ Date: _____

Department of Toxic Substances Control

Katherine M. Butler, MPH, Director
5796 Corporate Avenue
Cypress, CA 90630
https://dtsc.ca.gov/

Yana Garcia
Secretary for
Environmental
Protection

Gavin Newsom
Governor

July 9, 2025

Katherine Thomas
LANGAN
kthomas@langan.com

PR4-070725-06
AMINOIL BOLSA CHICA/ SWEPI 20101 GOLDENWEST STREET, HUNTINGTON BEACH, CA

Dear Requestor:

On 7/7/25 the Department of Toxics Control (DTSC) received your email of 7/7/25 requesting records under the Public Records Act. DTSC Cypress Office has identified site records responsive to your request for 20101 Goldenwest Street, Huntington Beach, CA and is in the process of gathering the requested records. However, DTSC did not find records for any other addresses on your request.

Please contact us to schedule an appointment to review these records. DTSC will notify you if any of the records will be withheld from disclosure under the Act. We recommend you bring a copier or arrange for a bonded copying service to make copies of the records.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is

available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library-anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How To Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at (714) 484-5337 or via email at CypressFileRoom@dtsc.ca.gov.

Respectfully,

Julie Chandler

Julie Chandler
Regional Records Coordinator
Administrative Services Branch

SCE Recovery Substation (CERSID: 10175719)

Facility Information **Submitted Feb 17, 2024**

Submitted on 2/17/2024 8:45:54 AM by *Jeremy Gates* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by Submitter: 2024 annual submission

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Mar 21, 2024**

Submitted on 2/17/2024 8:45:54 AM by *Jeremy Gates* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 3/21/2024 11:54:25 AM by Alexandra Escobedo
Comments by regulator: THE HAZARDOUS MATERIALS INVENTORY HAS BEEN ACCEPTED. ON-SITE VERIFICATION WILL OCCUR DURING YOUR ROUTINE INSPECTION. NOTIFY THIS AGENCY THROUGH CERS IF THERE ARE ANY CHANGES IN OWNERSHIP, ANY CHANGES IN CHEMICAL QUANTITIES OVER 100% OR IF THERE ARE ANY NEW CHEMICALS BEING STORED AT YOUR FACILITY. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Hazardous Material Inventory (1)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 183KB)

Emergency Response and Training Plans **Accepted Mar 21, 2024**

Submitted on 2/17/2024 8:45:54 AM by *Jeremy Gates* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 3/21/2024 11:57:28 AM by Alexandra Escobedo
Comments by regulator: THE EMERGENCY RESPONSE AND TRAINING PLANS HAVE BEEN ACCEPTED. ON-SITE VERIFICATION OF EMPLOYEE TRAINING RECORDS FOR INITIAL AND ANNUAL REFRESHER TRAINING WILL OCCUR DURING YOUR ROUTINE INSPECTION. FOR EMPLOYEE TRAINING PLANS, PLEASE SELECT 'STORED AT FACILITY' UNDER DOCUMENT OPTIONS AS OPPOSED TO 'PROVIDED TO REGULATOR' OR 'PROVIDED ELSEWHERE IN CERS', IF DOCUMENT IS NOT ATTACHED. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 367KB)
- Employee Training Plan
  - Provided In Submital Element: Emergency Response and Training Plans

California Environmental Reporting System (CERS) — Business Activities

Site Identification

SCE Recovery Substation
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10175719
EPA ID Number

Submittal Status

Submitted on 2/17/2024 by *Jeremy Gates* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2024 annual submission

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**No**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

SCE Recovery Substation
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10175719

Submittal Status

Submitted on 2/17/2024 by *Jeremy Gates* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2024 annual submission

Identification

Southern California Edison

Operator Phone	Business Phone	Business Fax
(626) 302-1212	(626) 302-1212	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
195138458	4911	221122

Facility/Site Mailing Address

P.O. Box 5085 (Attn: ESD, Programs & Governance)
Rosemead, CA 91770

Primary Emergency Contact

Environmental Notification Center
Title
Environmental Specialist

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Owner

Southern California Edison
(626) 302-1212
P.O. Box 5085 (Attn: ESD, Programs & Governance)
Rosemead, CA 91770

Secondary Emergency Contact

Environmental Notification Center
Title
Environmental Supervisor

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Billing Contact

Southern California Edison
(626) 302-1212 EHSync@sce.com
P.O. Box 5085 (Attn: ESD, Programs & Governance)
Rosemead , CA 91770

Environmental Contact

Environmental Notification Center
(844) 468-7745 AgencyInspections@SCE.COM
P.O. Box 5085 (Attn: ESD, Programs & Governance)
Rosemead, CA 91770

Name of Signer	Signer Title	Document Preparer
Jeremy Gates	Senior Advisor	Jeremy Gates

Additional Information
Taxpayer Identification Number: 95-1240335

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Socal Holding LLC
Phone

Mailing Address
27200 Tourney Rd # 3
Santa Clarita, CA 91355

Assessor Parcel Number (APN)
023-181-54
Number of Employees
0
Facility ID
FA0047759

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Southern California Edison, Transmission and Distribution Organization (TD)**

Chemical Location

CERS ID **10175719**

Facility Name **SCE Recovery Substation**
20101 Goldenwest St, Huntington Beach 92648

Inside Electrical Equipment

Facility ID **FA0047759**

Status **Submitted** on 2/17/2024 8:45 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Mineral Oil** CAS No 64742-53-6	**Gallons** State Liquid Type Mixture	**3321** Storage Container Other Days on Site: 365	**3302**	3321 Pressue Ambient Temperature Ambient	Waste Code	- Health Aspiration Hazard	Severely Hydrotreated Light Naphthenic Petroleum Butylated Hydroxy Toluene	100% 0%		64742-53-6 128-37-0

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID #	A1.	CERS ID #	A2.	DATE OF PLAN PREPARATION/REVISION (MM/DD/YYYY)	A3.
FA-0047759		10175719		03/01/2021	

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* A4.
SCE Recovery Substation

BUSINESS SITE ADDRESS A5.
20101 Goldenwest St

BUSINESS SITE CITY	A6.		ZIP CODE	A7.
Huntington Beach		CA	92648-0000	

TYPE OF BUSINESS (e.g., Painting Contractor)	A8.	INCIDENTAL OPERATIONS (e.g., Fleet Maintenance)	A9.
Electric Utility			

THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING (Check all that apply): A10.

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR BY (Check all that apply): B1.

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (e.g., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

In the event of an emergency involving hazardous materials and/or hazardous waste, all facilities must IMMEDIATELY:
1. Notify facility personnel and evacuate if necessary in accordance with the Emergency Action Plan (Title 8 California Code of Regulations §3220);
2. Notify local emergency responders by calling 9-1-1;
3. Notify the local Unified Program Agency (UPA) at the phone number below; and
4. Notify the State Warning Center at (800) 852-7550.

Facilities that generate, treat, store or dispose of hazardous waste have additional responsibilities to notify and coordinate with other response agencies. Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator must follow the appropriate requirements for the category of facility and type of release involved:
1. Title 22 California Code of Regulations §66265.56. Emergency Procedures for generators of 1,000 kilograms or more of hazardous waste in any calendar month.
2. Title 22 California Code of Regulations §66265.196. Response to Leaks or Spills and Disposition of Leaking or Unfit-for-Use Tank Systems.
3. Title 40 Code of Federal Regulations §302.6. Notification requirements for a release of a hazardous substance equal to or greater than the reportable quantity.
4. Title 22 California Code of Regulations §66262.34(d)(2) and Title 40 Code of Federal Regulations §262.34(d)(5)(ii) for generators of less than 1000 kilograms of hazardous waste in any calendar month.

Following notification and before facility operations are resumed in areas of the facility affected by the incident, the Emergency Coordinator shall notify the local UPA and the local fire department's hazardous materials program, if necessary, that the facility is in compliance with requirements to:
1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

EMERGENCY RESPONSE PHONE NUMBERS:			
	AMBULANCE, FIRE, POLICE AND CHP	9-1-1	
	CALIFORNIA STATE WARNING CENTER (CSWC)/CAL OES	(800) 852-7550	
	NATIONAL RESPONSE CENTER (NRC)	(800) 424-8802	
	POISON CONTROL CENTER	(800) 222-1222	
	LOCAL UNIFIED PROGRAM AGENCY (UPA)	(714) 433-6406	C1.
	OTHER (Specify): Huntington Beach FD C2.	(714) 536-2501	C3.
NEAREST MEDICAL FACILITY / HOSPITAL NAME:	Orange Coast Memorial Medical Center C4.	(714) 378-7000	C5.

AGENCY NOTIFICATION PHONE NUMBERS:			
	CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)	(916) 255-3545	
	REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)	(951) 782-4130	C6.
	U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)	(800) 300-2193	
	CALIFORNIA DEPT. OF FISH AND WILDLIFE (CDFW)	(916) 358-2900	
	U.S. COAST GUARD (USCG)	(202) 267-2180	
	CAL OSHA	(916) 263-2800	
	CAL FIRE OFFICE OF THE STATE FIRE MARSHAL (OSFM)	(916) 323-7390	
	OTHER (Specify): C7.		C8.
	OTHER (Specify): C9.		C10.

INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR BY (Check all that apply): C11.

- [x] 1. VERBAL WARNINGS;
- [ ] 2. PUBLIC ADDRESS OR INTERCOM SYSTEM;
- [x] 3. TELEPHONE;
- [ ] 4. PAGERS;
- [ ] 5. ALARM SYSTEM;
- [x] 6. PORTABLE RADIO

NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY (Check all that apply): C12.

- [x] 1. VERBAL WARNINGS;
- [ ] 2. PUBLIC ADDRESS OR INTERCOM SYSTEM;
- [ ] 3. TELEPHONE;
- [ ] 4. PAGERS;
- [ ] 5. ALARM SYSTEM;
- [ ] 6. PORTABLE RADIO

EMERGENCY COORDINATOR CONTACT INFORMATION: Environmental Notification Center C13.

PRIMARY EMERGENCY COORDINATOR NAME: Environmental Specialist PHONE NO.: (844) 468-7745 PHONE NO.: (844) 468-7745

ALTERNATE EMERGENCY COORDINATOR NAME: Environmental Supervisor PHONE NO.: (844) 468-7745 PHONE NO.: (844) 468-7745

- [ ] Check if additional Emergency Coordinator contact and address information is available onsite or by calling PHONE NO.:

Note: If more than one alternate emergency coordinator is designated, attach a list in order of responsibility.

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

Check the applicable boxes to indicate your facility's procedures for containing spills and preventing and mitigating releases, fires and/or explosions.

D1.

- [x] 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- [x] 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls, built-in berms);
- [x] 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, spill pigs, spill pillows);
- [ ] 4. COVER OR BLOCK FLOOR AND/OR STORM DRAINS;
- [ ] 5. LINED TRENCH DRAINS AND/OR SUMPS;
- [ ] 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- [ ] 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS;
- [x] 8. STOP PROCESSES AND/OR OPERATIONS;
- [x] 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- [ ] 10. SHUT OFF WATER, GAS, ELECTRICAL UTILITIES;
- [x] 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE AND/OR MEDICAL AID;
- [x] 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AND/OR IMPACTED AREAS;
- [x] 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION;
- [ ] 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE EMERGENCY RESPONSE TEAM;
- [x] 15. REMOVE CONTAINERS AND/OR ISOLATE AREAS;
- [x] 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- [x] 17. USE ABSORBENT MATERIAL FOR SPILL CONTAINMENT;
- [x] 18. VACUUM SUCTION USING APPROPRIATE VACUUM (e.g., Intrinsically safe) FOR SPILL CONTROL AND/OR CLEANUP;
- [ ] 19. DECONTAMINATE PERSONNEL AND EQUIPMENT WITHIN DESIGNATED AREA AND DISPOSE OF WASTEWATER AS HAZARDOUS WASTE;
- [x] 20. PROVIDE SAFE TEMPORARY STORAGE OF HAZARDOUS WASTE GENERATED DURING EMERGENCY ACTIONS;
- [ ] 21. OTHER (Specify): D2.

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (Check all that apply): E1.

E2.

- [ ] 1. BELLS;
- [ ] 2. HORNS/SIRENS;
- [x] 3. VERBAL (i.e., Shouting);
- [x] 4. OTHER (Specify): Telephone, Cell Phones, Car Horns

THE FOLLOWING LOCATION(S) WILL BE USED FOR AN EMERGENCY ASSEMBLY AREA(S) (e.g., Parking lot, street corner): E3.

Outside front gate.

Note: The Emergency Coordinator must account for all onsite employees and visitors after evacuation.

EVACUATION ROUTE S AND ALTERNATE EVACUATION ROUTES ARE DESCRIBED AS FOLLOWS: E4.

- [ ] 1. WRITTEN PROCEDURES DESCRIBING ROUTES, EXITS, AND ASSEMBLY AREAS;
- [ ] 2. EVACUATION MAP(S) DEPICTING ROUTES, EXITS, AND ASSEMBLY AREAS;
- [x] 3. OTHER (Specify): Meet at front gate. E5.

Note: Evacuation procedures and/or maps should be posted in visible facility locations and must be included in the Contingency Plan.

F. ARRANGEMENTS FOR EMERGENCY SERVICES

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following): F1.

- [x] 1. HAVE BEEN DETERMINED NOT NECESSARY;
- [ ] 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify): F2.

Note: Advance arrangements with local fire and police departments, hospitals, state and local emergency response teams, and/or emergency services contractors should be made for your facility, if necessary. Large Quantity Generators must describe arrangements in the Contingency Plan.

G. EMERGENCY EQUIPMENT

Check the applicable boxes to list emergency response equipment available at the facility, identify the location(s) where the equipment is kept, and indicate the equipment's capability, if applicable.

TYPE	EQUIPMENT AVAILABLE G1.	LOCATION G2.	CAPABILITY G3.
EXAMPLE	☒ *CHEMICAL PROTECTIVE GLOVES*	*SPILL RESPONSE KIT*	*SINGLE USE, OIL RESISTANT ONLY*
Safety and First Aid	1. ☐ CHEMICAL PROTECTIVE SUITS, APRONS, AND/OR VESTS		
	2. ☒ CHEMICAL PROTECTIVE GLOVES	Vehicles	Nitrile
	3. ☐ CHEMICAL PROTECTIVE BOOTS		
	4. ☒ SAFETY GLASSES, GOGGLES, AND FACE SHIELDS	Vehicles, Employee PPE	
	5. ☒ HARD HATS	Vehicles, Employee PPE	
	6. ☐ AIR-PURIFYING RESPIRATORS		
	7. ☐ SELF-CONTAINED BREATHING APPARATUS (SCBA)		
	8. ☒ FIRST AID KITS	Vehicles	
	9. ☐ PLUMBED EYEWASH FOUNTAIN AND/OR SHOWER		
	10. ☐ PORTABLE EYEWASH KITS AND/OR STATION		
	11. ☐ OTHER		
Fire Fighting	12. ☒ PORTABLE FIRE EXTINGUISHERS	Vehicles	
	13. ☐ FIXED FIRE SUPPRESSION SYSTEMS AND/ OR SPRINKLERS		
	14. ☐ FIRE ALARM BOXES		
	15. ☐ OTHER		
Spill Control and Clean-Up	16. ☒ ALL-IN-ONE SPILL KIT	Vehicles	
	17. ☒ ABSORBENT MATERIAL	Vehicles	
	18. ☒ CONTAINER FOR USED ABSORBENT	Vehicles	
	19. ☐ BERM AND/OR DIKING EQUIPMENT		
	20. ☒ BROOM	Vehicles	
	21. ☒ SHOVEL	Vehicles	
	22. ☐ VACUUM		
	23. ☐ EXHAUST HOOD		
	24. ☐ SUMP AND/OR HOLDING TANK		
	25. ☐ CHEMICAL NEUTRALIZERS		
	26. ☐ GAS CYLINDER LEAK REPAIR KIT		
	27. ☐ SPILL OVERPACK DRUMS		
	28. ☐ OTHER		
Communi-cations and Alarm Systems	29. ☒ TELEPHONES (e.g., Cellular)	Vehicles	
	30. ☐ INTERCOM AND/OR PA SYSTEM		
	31. ☒ PORTABLE RADIOS	Vehicles	
	32. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT		
Other	33. ☒ OTHER	Vehicle Horn	
	34. ☐ OTHER		

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases due to seismic motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS (Check all that apply): H1.

- [x] 1. HAZARDOUS MATERIALS AND/OR WASTE STORAGE AREAS
- [ ] 2. PROCESS LINES AND PIPING
- [ ] 3. LABORATORY
- [ ] 4. WASTE TREATMENT AREA

LOCATIONS (e.g., Shop, outdoor shed, lab): H2.

Inside Electrical Equipment, Battery Cabinets

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS AND/OR EQUIPMENT (Check all that apply): H3.

- [x] 1. SHELVES, CABINETS AND/OR RACKS
- [ ] 2. TANKS AND SHUT-OFF VALVES
- [ ] 3. PORTABLE GAS CYLINDERS
- [ ] 4. EMERGENCY SHUT-OFF AND/OR UTILITY VALVES
- [ ] 5. SPRINKLER SYSTEMS
- [ ] 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane tank)

LOCATIONS: H4.

Battery Cabinets

I. EMPLOYEE TRAINING

Employee training is required for all employees and/or contractors handling hazardous materials and/or hazardous wastes during normal and/or emergency operations. Most facilities will need to submit a separate Training Plan. However, your CUPA may accept this section as the Training Plan for some small facilities.
Employee training plans may include the following content:

- Applicable laws and regulations;
- Emergency response plans and procedures;
- Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Hazards of materials and processes (e.g., fire, explosion, asphyxiation);
- Hazard mitigation, prevention and abatement procedures;
- Coordination of emergency response actions;
- Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;
- Communication and alarm systems;
- Personal protective equipment;
- Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials);
- Decontamination procedures;
- Evacuation procedures and evacuation staging locations;
- Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters.
- OTHER (Specify):

Check the applicable boxes below to indicate how the employee training program is administered.

- [x] 1. FORMAL CLASSROOM
- [x] 2. VIDEOS
- [x] 3. SAFETY MEETINGS
- [x] 4. STUDY GUIDES / MANUALS I1.
- [x] 5. OTHER (Specify): Employees receive Hazardous Material and Hazardous Waste awareness (Training Handouts, Web Based Training, Policy/Procedure Manuals) depending on their position I2.
- [ ] 6. NOT APPLICABLE SINCE FACILITY HAS NO EMPLOYEES
- [ ] 7. CHECK IF A SEPARATE EMPLOYEE TRAINING PLAN IS USED AND UPLOADED TO CERS AS A PDF DOCUMENT I3.
- [x] 8. CHECK IF EMPLOYEE TRAINING IS COVERED BY THE ABOVE REFERENCED CONTENT AND OTHER DOCUMENTS ONSITE I4.

EMPLOYEE TRAINING FREQUENCY AND RECORDKEEPING TRAINING MUST BE:

- Provided initially for new employees as soon as possible following the date of hire. New employees should not work in an unsupervised position that involves hazardous materials handling and/or hazardous waste management without proper training;
- Provided within six months from the date of hire for new employees at a large quantity generator;
- Ongoing and provided at least annually;
- Amended prior to a change in process or work assignment;
- Given upon modification to the Emergency Response/Contingency Plan.

Large Quantity Generator Training: Large quantity generators (1,000 kg or more) must retain written plan and documentation of employee training which includes:

- A written description of the type and amount of both initial and ongoing training that will be given to persons filling each job position having responsibility for hazardous waste management and/or emergency response.
- The name, job title and job description for each position at the facility related to hazardous waste management.
- Current employee training records must be retained until closure of the facility and former employee training records must be retained for at least three years after termination of employment.

Small Quantity Generator Training: Small quantity generators (less than 1,000 kg) must include basic hazardous waste management and emergency response procedures but a written employee training plan and training records are not required. In order to show that the facility has met the small quantity generator employee training requirement, an employee training plan and training records may be made available.

Hazardous Materials Business Plan Training: Businesses must provide initial and annual employee training that includes the content referenced above. The training may be based on the job position and training records must be made available for a period of at least three years.

J. LIST OF ATTACHMENTS

Check one of the following: J1.

- [x] 1. NO ATTACHMENTS ARE REQUIRED; or
- [ ] 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

JAYKIM ENGINEERS, INC.

August 31, 1988 Ref: 6716.14

Mr. W. B. Wilder
Senior Engineering Technician
Shell Western E & P, Inc.
P.O. Box 191
20101 Goldenwest Street
Huntington Beach, CA 92648

SUBJECT: SUBSURFACE INVESTIGATION AT THE SHELL WESTERN E & P, INC. FACILITY IN HUNTINGTON BEACH

Dear Mr. Wilder:

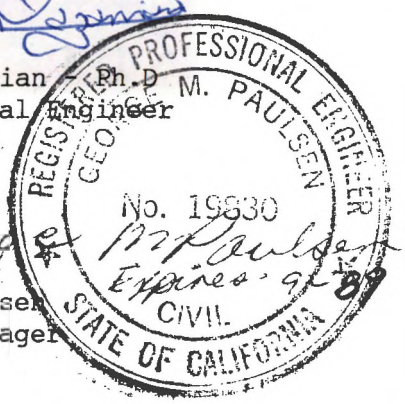
Jaykim Engineers, Inc., is pleased to forward to your the report of its subsurface investigation conducted at the Shell Western Exploration and Production, Inc., facility in Huntington Beach.

If you have any questions or need further information, please call us at (213) 596-2755.

Sincerely,

JAYKIM ENGINEERS, INC.

Jahan Nazarian - Ph.D
Environmental Engineer



George Paulsen
Project Manager

JN/JKB/sw

jn3s1034

10701 Los Alamitos Blvd., Suite 200, Los Alamitos, CA 90720 (213) 596-2755

INTRODUCTION

This report presents the results of subsurface investigation conducted at the Shell Western E & P, Inc., at Huntington Beach. This work was performed following underground storage tank removals from the site, which confirmed the presence of contamination underneath the tanks.

SITE DESCRIPTION

Shell Western Exploration and Production Inc., is located at 20101 Golden West Street, Huntington Beach. The facility has been the site of concentrated oil production and oil field related services since the early 1930's. Figure 1 presents a plot plan showing the site of the removed tanks, the pump island as well as the borehole locations and the close-by buildings.

BACKGROUND

Recently three underground storage tanks were removed by Coast Contractors, Inc., from the Shell Western E and P Inc., facility in Huntington Beach. The following table presents a description of the tanks that have been removed and their contents:

Tank Number	Tank Capacity (Gallon)	Material Stored
1	2,000	Stoddard Solvent
2	5,000	Stoddard Solvent
3	7,500	Leaded Gasoline

Analyses of soil samples taken at about 2 feet below the bottom of the tanks at the time of tank removals show that contamination by fuel hydrocarbons exists at the northern part of the excavation site. Little or no contamination was detected at the southern part of the excavation. The fill pipes of the removed tanks were positioned at the northern part of the excavation. As the tanks were in good condition at the time of the removals, it is strongly suspected that the contamination at the site has been caused by overfilling of the tanks or leakage of the stored materials from loose fittings.

GROUNDWATER DEPTH

Data regarding groundwater depth for the area is rather limited. Search of the archives of the State Department of Water Resources revealed that data for groundwater was available for September 1966. We have also obtained water depth of 71 feet at the site for water source well 33A measured by the Shell Western E & P staff in August 1988. In a telephone conversation with the Orange County Water District we were informed that Well No. 05S/11W/26M8 about half a

mile away had a groundwater depth of 40 feet for November 1987. The Orange County Water District also informed us that the first aquifer in the Huntington Beach area is designated to be a municipal water source. The first aquifer is also connected to deeper aquifers in that region. No groundwater gradient can be presented at the present time.

RAINFALL DATA

Historical data obtained from a South Coast Air Quality Management District publication titled "A Climatological - Air Quality Profile, California South Coast Basin" shows that average data in Newport Beach the nearest station to the site is 11.88 inches. Historical data from other stations in Orange County show average annual rainfall in the range 12-14.5 inches.

RESULTS OF DRILLING, SOIL SAMPLING AND LABORATORY ANALYSES PROGRAM

On July 19 and 20, 1988, a drilling and soil sampling program was conducted at Shell Western E & P, Inc. located at 20101 Golden West Street in Huntington Beach to determine the vertical and lateral extent of the contamination at the site. Hollow stem augers were used to drill six boreholes around the excavation . Borings B-3, B-4 and B-5 were drilled to depths of 35 feet, borings B-1, B-2 and B-6 were drilled to depths of 30 feet. Borings B-1 and B-2 were drilled to determine if the contamination has migrated to the south and east of the excavation. Boreholes B-3 and B-4 were slant drilled at 20° angles to obtain soil samples from underneath tanks 1 and 2 at points where the highest concentrations of the contaminants were detected at the time of the tank removals. Borings B-5 and B-6 were drilled at locations dictated by the logistics of the site which include various pipes traversing the area and other underground storage tanks in the vicinity. All the borings were sampled at 5 foot intervals. At borehole B-3 several attempts were made to take a sample at 35 foot depth, but no sample was obtained. The soil samples were collected in stainless steel tubes inside a modified California sampler. The sample tube ends were covered with aluminum foil and sealed with plastic end caps and stored in an ice chest with blue ice to prevent volatilization. A Bacharach Instrument TLV meter was used to monitor duplicate soil samples for the presence of combustible vapors. The field monitoring results as well as visual and olfactory evidence indicated that some contamination was present at the site. The samples were submitted to a state-certified laboratory to be analyzed using the EPA Method 8015 for total petroleum hydrocarbons and by the EPA Method 8020 for BTX and E. A summary of the laboratory results for total fuel hydrocarbons are presented in Table 1, while Table 2 contains the BTX and E results.

TABLE 1

Sample	EPA 8015 Concentration mg/kg
B-1 at 5'	480
B-1 at 10'	ND
B-1 at 15'	ND
B-1 at 20'	ND
B-1 at 25'	ND
B-1 at 30'	ND
B-2 at 5'	40
B-2 at 10'	110
B-2 at 15'	ND
B-2 at 20'	ND
B-2 at 25'	ND
B-2 at 30'	ND
B-3 at 5'	20
B-3 at 10'	ND
B-3 at 15'	130
B-3 at 20'	80
B-3 at 25'	ND
B-3 at 30'	ND
B-4 at 5'	200
B-4 at 10'	250
B-4 at 15'	320
B-4 at 20'	ND
B-4 at 25'	ND
B-4 at 30'	ND
B-4 at 35'	120
B-5 at 5'	40
B-5 at 10'	810
B-5 at 15'	4,740
B-5 at 20'	50
B-5 at 25'	ND
B-5 at 30'	ND
B-5 at 35'	70
B-6 at 5'	90
B-6 at 10'	3,430
B-6 at 15'	3,080
B-6 at 20'	2,740
B-6 at 25'	ND
B-6 at 30'	180

ND - Non Detected
Detection Limit 5ppm

TABLE 2

Sample	EPA 8020 Concentration ug/kg			
	Benzene	Toluene	Ethylbenzene	Xylene
B-1 at 30'	ND	ND	ND	ND
B-2 at 30'	ND	ND	ND	ND
B-3 at 30'	ND	ND	ND	ND
B-4 at 35'	ND	ND	ND	ND
B-5 at 35'	ND	ND	ND	ND
B-6 at 30'	ND	ND	ND	ND

ND - Non Detected
Detection Limit 5 ppb

The laboratory results show that contamination by petroleum hydrocarbons is present at the site. However, no BTX&E are present in the bottom samples. At borehole B-1 contamination has been detected at 5 foot depth. Considering the position of borehole B-1, this contamination is most likely not a result of leakage from the removed tanks. At boreholes B-2 and B-3 insignificant contamination is present to 10 and 20 foot depths respectively. The results of analyses for borehole B-2 shows that the contamination has not migrated to the eastern parts of the excavation. The results of analyses for borehole B-3 indicates that the contamination detected below tank 1 at the time of tank removals has not migrated to depths greater than 20 feet. At borehole B-4 minor contamination is detected to 15 foot depth, but at 35 foot depth a relatively low concentration of the contaminants are found. Such anomalies in the profile assessment are not usually expected, but it could be attributed to the migration of the contaminants by the channelling effect through the soil matrix. At boreholes B-5 and B-6 significant contamination is present to 15 and 20 foot depths respectively. Bottom samples from both boreholes show the presence of a small concentration of petroleum hydrocarbons. The results of the analyses for BTX&E for the bottom samples clearly show that no contamination by BTX&E are present. The presence of non-contaminated soil above the bottom samples indicates that the leakage or spillage from the removed tanks has not penetrated to such depths.

Enclosed are copies of the chain of custody papers regarding the drilling program as well as the formal laboratory reports for both the drilling program and the tank removals.

GENERAL GEOLOGY

The drilling program revealed that the soil formation at the site is mostly interbedded sandy silt, clayey silt or silty clay. Enclosed are the boring logs.

CONCLUSIONS

Based on the laboratory results of the subsurface investigation the vertical extent of the contamination by fuel hydrocarbons has been defined, but the lateral extent of the contamination has not been fully determined.

Figure 2 presents the plan view of the former tank site together with sections AA and BB. This figure also shows section AA with numerical presentation of the fuel hydrocarbon contamination as determined by the EPA method 8015. The maximum vertical depth at which significant fuel hydrocarbons were detected by the EPA Method 8015 is 20 feet. Figure 2 clearly shows that at the vertical depth of 25 feet all the boreholes are free from contamination. However, based on field observations the maximum depth of the contamination is 23 feet. The soil formation at the site is mostly interbedded sandy silt, clayey silt or silty clay. It appears that the clay layers have been instrumental in retarding the vertical penetration of the contaminants. The available data indicates that the contamination may have migrated laterally to the northern and northwestern parts of the excavation. However, various pipes and other underground tanks that exist in that locality may have also contributed to the contamination detected to the northern and northwestern parts of the excavation. Considering the data from boreholes B-1, B-2 and B-3, and those obtained at the time of tank removals, the lateral extent of the contamination at the eastern and southern parts of the excavation can be defined, but the lateral limits to the northern and western parts may not be determined. Figure 3 is a 3-dimensional presentation of the plume of contamination according to the available data. Further subsurface investigation is required to determine the plume size.

The LUFT Manual was consulted as a guideline to determine the concentration of the contaminants that can be left in place without threatening groundwater. Table 2-1 of the LUFT Manual which is a simplified procedure to evaluate the leaching potential of the contaminants from contaminated soils was employed. Table 3 shows the points scored for the site features. A total of 46 points is scored which allows a maximum concentration of 100 ppm TPH to be left in place. The maximum B/T/X/E concentrations that can accordingly be left in place are 0.3/0.3/1/1 ppm respectively. The general risk appraisal based on profile of soil contamination and depth to groundwater was subsequently considered. However, the site produced positive results for questions 7 and 8 of Table 2-3 of the LUFT Manual and the answers to questions 3 and 4 are not know at this time. Because of this, the results of the general risk appraisal will be less valid than if the site had produces negative answers. The general risk appraisal is also dependent upon the results of the BTX&E for the entire profile of the borings. Such data is not available at this moment. Therefore the general risk appraisal according to Tables 2-5 through 2-8 presents in the LUFT manual have not been used. As further subsurface investigations have been recommended for the site, the application of the general risk appraisal can be delayed, until the results of further subsurface investigation and laboratory analyses for total boreholes profiles for BTX&E is obtained.

Table 3
Leaching Potential Analysis for Gasoline
Using Total Petroleum Hydrocarbons (TPH)
and Benzene, Toluene, Xylene and Ethylbenzene (BTX&E)

SITE FEATURE	SCORE	SCORE 10 PTS IF CONDITION IS MET	SCORE	SCORE 9 PTS IF CONDITION IS MET	SCORE	SCORE 5 PTS IF CONDITION IS MET
Minimum Depth to Ground Water from the Soil Sample (feet)		>100	9	51-100		25-50*
Fractures in subsurface (applies to foothills or mountain areas)	10	None		Unknown		Present
Average Annual Precipitation (inches)		<10	9	10-25		26-40**
Man-made conduits which increase vertical migration of leachate		None	9	Unknown		Present
Unique site features: recharge area, coarse soil, nearby wells, etc		None	9	At least one		More than one
COLUMN TOTALS→TOTAL PTS	10	+	36	+		= 46
RANGE OF TOTAL POINTS	49pts or more		41 - 48 pts		40pts or less	
MAXIMUM ALLOWABLE B/T/X/E LEVELS (PPM)	1/50/50/50		.3/.3/1/1		.3/.3/.3/.3	
MAXIMUM ALLOWABLE TPH LEVELS (PPM)	1000		100		10	

* If depth is under 25 feet score 0 points.
** If precipitation is over 40 inches score 0 points.

REMEDIATION

A number of remediation methods that can be considered for the site are discussed as follows:

1. EXCAVATION

Excavation of the contaminated soil by a backhoe or crane and clam shell would ensure the removal of the contaminated soil. The nearby buildings may need to be shored up. The contaminated volume will be surrounded by soil which is clean, as a result the total volume of soil that needs to be removed will be larger than the actual plume of contamination. This is due to excavating and shoring up requirements. Field monitoring by a TLV sniffer should be employed to ascertain the lateral and vertical extent of the contamination at the time of excavation.

Several soil samples would be taken where the field monitoring indicates that the contamination has been totally removed. A report of this activity should be issued to the lead agency involved.

The clean soil excavated prior to the removal of the contaminated soil may be stock piled on site and can be used as backfill material.

After the agency approval for the clean-up is obtained, the excavation will have to be backfilled with clean soil from the pit as well as import soil.

Regarding the contaminated soil, two options would be available for completing the site remediation:

a) On-site surface aeration or treatment by biological degradation (landfarming). This work requires 12 to 18 months to be completed. However, due to the proposed regulations by South Coast Air Quality Management District (SCAQMD) the applicability of this type of remediation may be limited as time constraints would eventually be placed on the existing landfarms after the adoption of the regulations.

b) Transportation of the contaminated soil to a class 1 land fill by registered hazardous waste haulers.

As the volume of the contaminated plume has not been determined, the economic feasibility of conducting such work may not be evaluated.

2. In-situ treatment:

In-situ treatment refers to the abatement of the contamination in the soil matrix without disturbing the soil.

a) Biodegradation: Although a relatively simple method, its applicability is limited to very shallow depths in suitable soil formations.

b) Vapor extraction: This method is mostly applicable to sandy and silty formations. However, it may be an option to consider for this site even though the majority of the soils which exist at the site are interbedded sandy silt, clayey sit or silty clay. The treatment period may be very long due to the slow volatilization rates. It is difficult to monitor or control the treatment progress and completeness, but it has been used with varying degrees of success at a number of sites.

c) Air stripping: The applicability and limitations of this method are similar to those as in vapor extraction described above.

d) Chemical oxidation: This treatment method involves the injection of hydrogen peroxide into the contaminated soil. However, at this site due to the soil formation part of the upper strata soil needs to be excavated and treated at the surface to make the less contaminated soil at depths more than 20 feet more accessible to the treatment process. This treatment method is not approved by the State Department of Health Services. However, on a case by case basis some work plans employing this technique may be approved.

Several treatment options have been briefly described. It appears that options 1(a), 1(b) and 2(b) can be applicable to the site.

Option 1(a) is effective in the treatment of gasoline contaminated soil, but requires the shoring up of the building. Option 1(b) offers the fastest and surest remediation measure. But it is an extremely costly undertaking as it requires shoring up, excavation, transportation and disposal at a class 1 landfill.

Option 2(b) has the potential and suitability to be effective for pollution abatement at this site. It also offers economic feasibility as an acceptable method. But, this treatment technique would not remove the contamination completely. Therefore, prior to the installation of the vapor extraction system a criteria for leaving part of the contaminants in the soil should be established and approved by the lead agency.

It may be necessary to conduct limited vapor extraction at the site to monitor the progress of the process and assess its effectiveness for the site. If the results of the monitoring indicate that the process is achieving its intended goals then full scale vapor extraction will be a most suitable method to be considered for the mitigation at the site.

A combination of options 1(a) and 2(b) may also be an appropriate choice for mitigation at this site. Excavation at the epicenter of the contaminated soil and away form the buildings to a depth of about 23 feet may not require shoring up of the building. The excavated soil and the contaminated soil that would be left in place would then be treated by landfarming on site and by vapor extraction in-situ respectively.

It is recommended to investigate the economic and practical applicability of methods 1(a), 1(b) and 2(b) and a combination of methods 1(a) and 2(b) further.

DISCLAIMER

All properties are subject to some environmental risks. These risks cannot be eliminated completely. Many commercial and industrial properties that were developed prior to the enactment of modern environmental laws are particularly prone to risks associated with environmental hazards which include, but are not limited to materials or wastes which may be toxic, ignitable, corrosive or reactive. The identification and mitigation of the potential environmental hazards prior to the development or redevelopment of the property can lead to the reduction or elimination of the impact of the environmental hazards on the use of the property. In some cases, it is not possible to ascertain that hazardous materials/wastes are present on the property prior to development.

No warranty, expressed or implied, of any kind is made or intended in connection with this report, or by the fact that you are being furnished with the report, or by any other oral or written statement.

SUMMARY

The subsurface investigation program conducted for the Shell Western E and P Inc., located at Huntington Beach has not determined a contaminated plume completely. Further subsurface investigation at the site is required to determine the size of the contaminated plume caused by the leakage or spillage from the underground storage tanks in that locality. Installation of monitoring wells may be appropriate for the site. However, remediation methods have been briefly discussed and three methods suitable for this purpose have been brought into focus.

We look forward to your review and comments on this report. If you have any questions or require further information, please call us at (213) 596-2755.

Sincerely,

JAYKIM ENGINEERS, INC.

Jahan Nazarian - Ph.D.
Environmental Engineer

George Paulsen
Project Manager

REGISTERED PROFESSIONAL ENGINEER
GEORGE M. PAULSEN
No. 19830
Expires 9-'89
CIVIL
STATE OF CALIFORNIA

JN/JKB/sw-jn3s1034

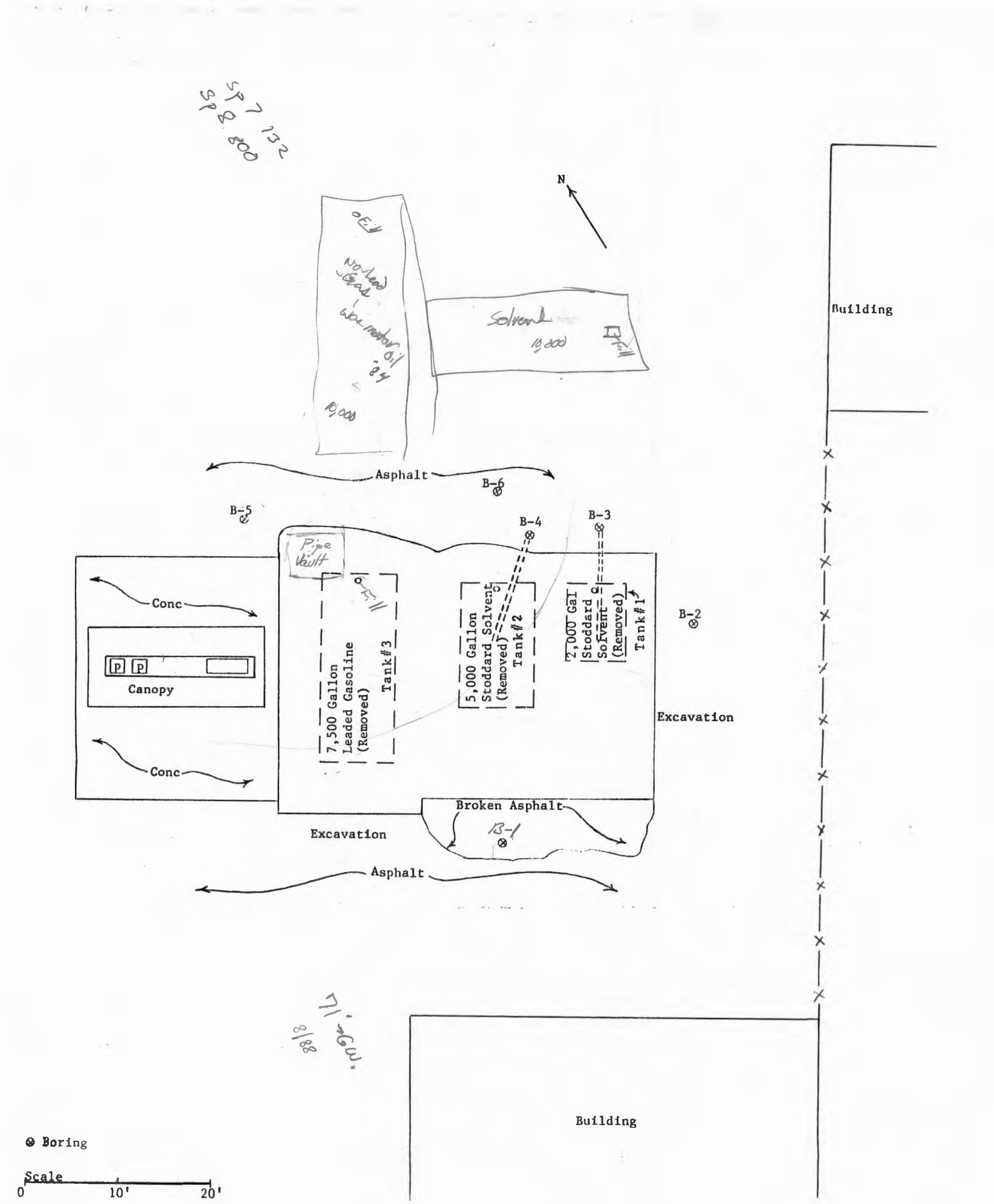
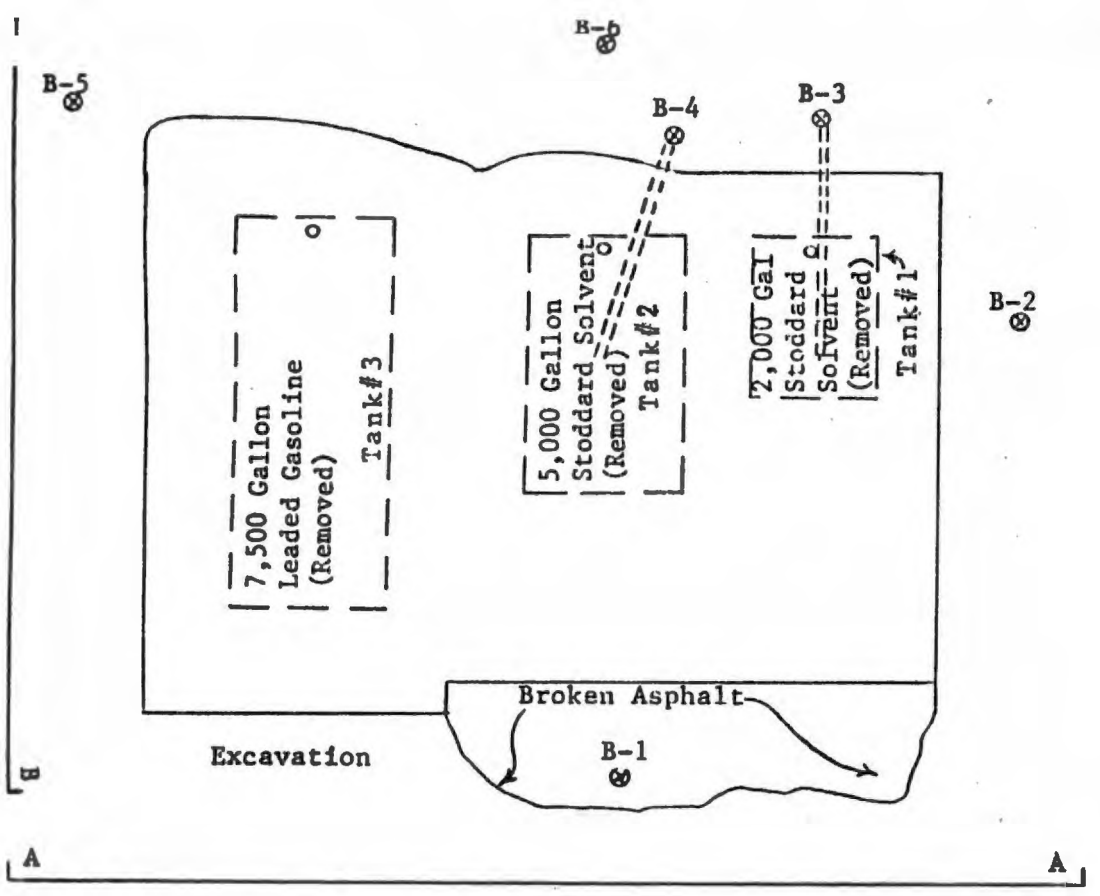
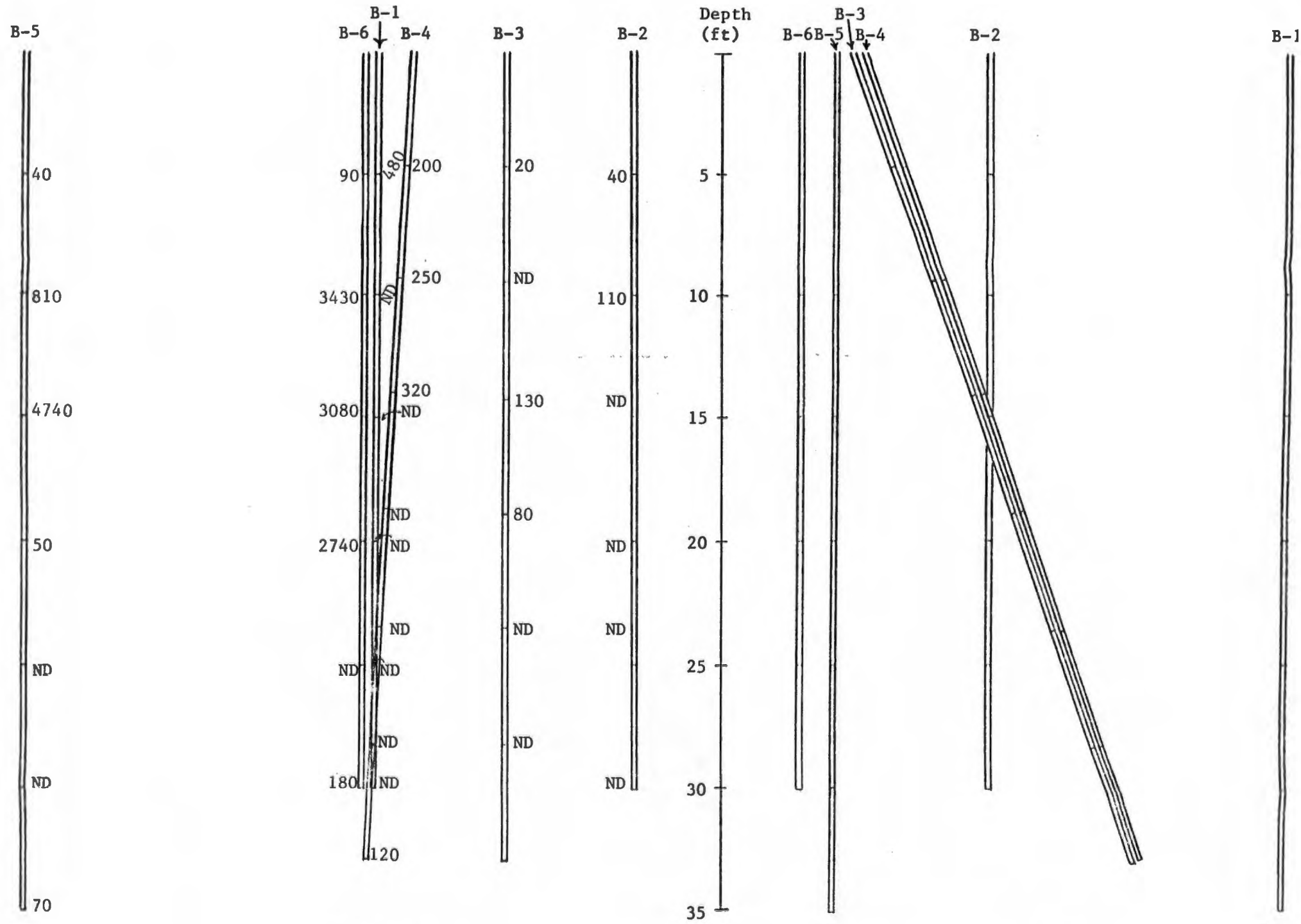


FIGURE 1

PLANS PREPARED BY JAYKIM ENGINEERS, Inc.	Shell Western E and P Inc., 20101 Golden West Street Huntington Beach, California	JOB NO. 6714.16 DWG.NO. 1



Plan View



Section AA

Section BB

⊗ Boring

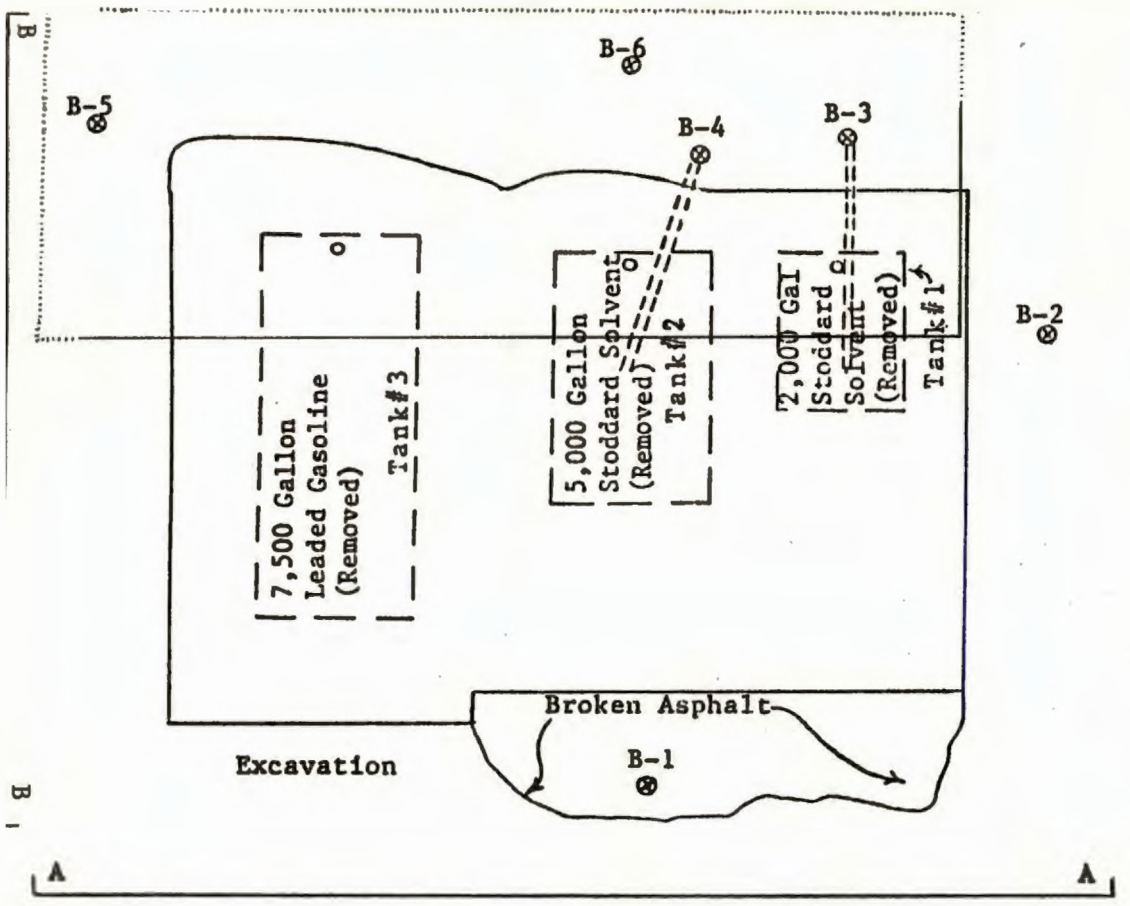
TPH Concentrations mg/kg

FIGURE 2

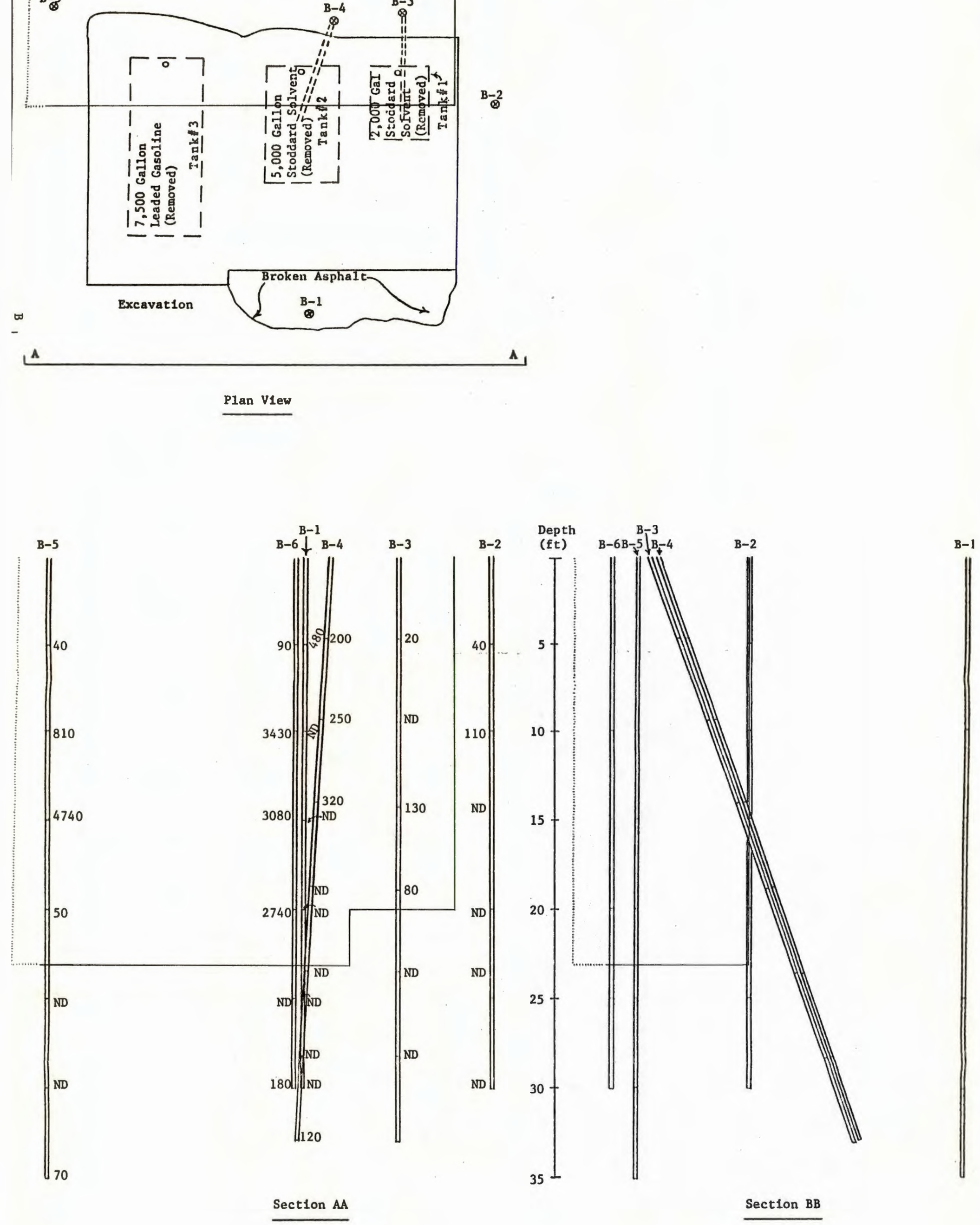
Plan Scale:
0 10' 20'

Elevation Scale:
0 5' 10'

PLANS PREPARED BY		
JAYKIM ENGINEERS, Inc.	Shell Western E and P Inc., 20101 Golden West Street Huntington Beach, California	JOB NO. 6714.16 DWG.NO. 2



Plan View



Section AA

Section BB

FIGURE 3

⊗ Boring

TPH Concentrations mg/kg

Determined Plume Boundary

Undetermined Plume Boundary

Plan Scale: 0 10' 20'

Elevation Scale: 0 5' 10'

PLANS PREPARED BY JAYKIM ENGINEERS, Inc.	Shell Western E and P Inc., 20101 Golden West Street Huntington Beach, California	JOB NO. 6714.16
		DWG.NO.

C K Y incorporated
Environmental Services

August 4, 1988

Jaykim Engineers, Inc.
10701 Los Alamitos Blvd., 200
Los Alamitos, CA 90720

Attn: Mr. Jahan Nazarian

Subject: Laboratory Report
Project: 6716.14 - Shell Oil

Enclosed is the laboratory report for the subject project. The data reported includes:

Method	No. of Analysis
M8015-(TPH)	37 Soils
8020 - BTEX	6 Soils

Please feel free to call if you have any questions concerning these results.

Sincerely,

Timothy L. Theisen
Analyst

Dr. Kam Pang
Laboratory Director

3551 Voyager St., Suite 102, Torrance, Calif. 90503 • Telephone (213) 371-0048

CKY

EPA METHOD - Modified 8015 TPH

CLIENT:	Jaykim Engineers	**DATE REC'D:**	7/19-7/20
PROJECT:	6716-14	**DATE COMPLETED:**	08/03/88
CKY ID:	880709	**MATRIX TYPE:**	Soil

CKY CONTROL	SAMPLE I.D.	TPH, mg/kg
880709-1	B1 AT 5'	480
880709-2	B1 AT 10'	N.D.
880709-3	B1 AT 15'	N.D.
880709-4	B1 AT 20'	N.D.
880709-5	B1 AT 25'	N.D.
880709-6	B1 AT 30'	N.D.
880709-7	B2 AT 5'	40
880709-8	B2 AT 10'	110
880709-9	B2 AT 15'	N.D.
880709-10 COMP	B2 AT 20'	N.D.
880709-11 COMP	B2 AT 25'	
880709-12	B2 AT 30'	N.D.
880709-13	B3 AT 5'	20
880709-14	B3 AT 10'	N.D.
880709-15	B3 AT 15'	130
880709-16	B3 AT 20'	80
880709-17	B3 AT 25'	N.D.
880709-18	B3 AT 30'	N.D.
880711-1	B4 AT 5'	200
880711-2	B4 AT 10'	250
880711-3	B4 AT 15'	320
880711-4	B4 AT 20'	N.D.
880711-5	B4 AT 25'	N.D.
880711-6	B4 AT 30'	N.D.
880711-7	B4 AT 35'	120
880711-8	B5 AT 5'	40
880711-9	B5 AT 10'	810
880711-10	B5 AT 15'	4,740
880711-11	B5 AT 20'	50
880711-12	B5 AT 25'	N.D.
880711-13	B5 AT 30'	N.D.
880711-14	B5 AT 35'	70
880711-15	B6 AT 5'	90
880711-16	B6 AT 10'	3,430
880711-17	B6 AT 15'	3,080
880711-18	B6 AT 20'	2,740
880711-19	B6 AT 25'	N.D.
880711-20	B6 AT 30'	180
Detection Limit		5

CKY

EPA METHOD - 8020 - BTXE

CLIENT:	JAYKIM ENGINEERS	**DATE REC'D:**	7-19,7-20
PROJECT:	6716-14 SHELL OIL	**DATE COMPLETED:**	08/01/88
CKY ID:	880709,11	**MATRIX TYPE:**	Soil

CKY CONTROL	SAMPLE I.D.	RESULTS, ug/kg BENZENE	TOLUENE	ETHYLBENZ.	XYLENE
880709-6	B1 AT 30'	ND	ND	ND	ND
880709-12	B2 AT 30'	ND	ND	ND	ND
880709-18	B3 AT 30'	ND	ND	ND	ND
880711-7	B4 AT 35'	ND	ND	ND	ND
880711-14	B5 AT 35'	ND	ND	ND	ND
880711-20	B6 AT 30'	ND	ND	ND	ND
Detection Limit		5	5	5	5

CHAIN OF CUSTODY RECORD

Client name	Jenkins Engineers, Inc.	Job number	6716.14
Project name	Shell 0.1 Ed P		
		Sampler(s)	John

Sample number	Date sampled	Time sampled	Type Composite or Grab	Sample description	Number of containers	EPA 8015	EPA 8020	Hazardous sample Special handling required	Remarks
	July 19, 1988	AM	Grab	B-1 at 5', 10', 15', 20', 25', 30'	6	X			Samples were
									collected in stainless
				B-1 at 30'			X		~~tube~~ steel tubes,
									covered with aluminum
	July 19, 1988	PM	4	B-2 at 5', 10', 15', 30'	4	X			foil & sealed with
				B-2 at 20' and 25' (Please composite)	2	X			Plastic end caps. The
				B-2 at 30'			X		samples were then
									stored in an ice
	July 19, 1988	PM	4	B-3 at 5', 10', 15', 20', 25', 30'	6	X			chest with blue ice
							X		to reduce potential for
				B-3 at 30'					volatilization.
				Total	18		3		

	Signature	Company	Date	Time
Relinquished by	John Nazemi	Jenkins Engineers, Inc.	July 19, 1988	5:55p
Received by	Can Pap	CCC Inc.	7/19	6:00p
Relinquished by				
Received by				
Relinquished by				
Received by				

CHAIN OF CUSTODY RECORD

Client name: Jahn Engineers, Inc. | Job number: 6716.14

Project name: Shell O.I E&P

Sampler(s): John

Sample number	Date sampled	Time sampled	Type Composite or Grab	Sample description	Number of containers	EPA 8015		EPA 8020					Hazardous sample Special handling required	Remarks
	July 20, 1988	AM		B-4 at 5', 10', 15', 20', 25', 30', 35'	7	X								
		↓		B-4 at 35'				X						
				B-5 at 5', 10', 15', 20', 25', 30', 35'	7									
		↓		B-5 at 35'				X						
		PM		B-6 at 5', 10', 15', 20', 25', 30'	6	X								
		↓		B-6 at 30'				X						
				Total	20	20		3						

	Signature	Company	Date	Time
Relinquished by	John Nazarian	Jahn Engineers, Inc	July 20, 1988	5:20 p
Received by	Can Yee Pang	CKY Inc.	7/20/88	5:35 pm
Relinquished by				
Received by				
Relinquished by				
Received by				

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

Coast Contractors, Inc. (2646)
1301 E. Spring Street
Long Beach, Ca. 90806

Attn: Terri Loomer

LAB NO. F48760

REPORTED 05/27/88

SAMPLE Soil

RECEIVED 05/20/88

IDENTIFICATION Shell Western, 20101 Goldenwest, H. B.

BASED ON SAMPLE As Submitted with County Seals Intact

	SP-7	SP-8
Total Hydrocarbons (8015) (mg/kg)	132	800
Benzene (mg/kg)	ND< 0.05	ND< 0.05
Toluene (mg/kg)	ND< 0.05	ND< 0.05
Ethyl Benzene (mg/kg)	ND< 0.1	ND< 0.1
Xylene - Para	ND< 0.1	ND< 0.1
(8020) - Meta	ND< 0.1	ND< 0.1
(mg/kg)- Ortho	ND< 0.1	ND< 0.1

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

cc: O.C. Health Care Dept.

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical •
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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

Coast Contractors, Inc. (2646)
1301 E. Spring Street
Long Beach, Ca. 90806

Attn: Terri Loomer

LAB NO F48752
REPORTED 05/27/88

SAMPLE Soil
RECEIVED 05/20/88

IDENTIFICATION Shell Western, 20101 Goldenwest, H.B.

BASED ON SAMPLE As Submitted Chilled and with County Seals Intact

	Total Hydrocarbons (8015) (mg/kg)
SP-1	1,450
SP-2	ND<10
SP-3	20,300
SP-4	31
SP-5	2,360
SP-6	ND<10

	SP-1	SP-2
Benzene (mg/kg)	ND<0.05	ND<0.05
Toluene (mg/kg)	12	ND<0.05
Ethyl Benzene (mg/kg)	10	ND<0.1
Total Xylene (8020) (mg/kg)	185	ND<0.1
Total Lead (7421) (mg/kg)	5.90	2.87

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

cc: O.C. Health Care Dept.

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1 10M

(TY OF ORANGE/HEALTH CARE AGENC
I RONMENTAL HEALTH (714) 834-80
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

PLEASE WRITE LEGIBLY.

ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SAMPLE LOCATION: _____

_____

_____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS

CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.			
2.			
3.			
4.			
5.			
6.			

272-8.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

ITY OF ORANGE/HEALTH CARE AGENC
.RONMENTAL HEALTH (714) 834-802
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

PLEASE WRITE LEGIBLY.

ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SAMPLE LOCATION: _____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
SP 7	TPH 20	Soils pile at End
SP 8	TPH 20	Soils pile at End

CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	_____	_____	_____ - _____
2.	_____	_____	_____ - _____
3.	_____	_____	_____ - _____
4.	_____	_____	_____ - _____
5.	_____	_____	_____ - _____
6.	_____	_____	_____ - _____

272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 in.	BORE ELEV.	BORE NO. B-1
DATE: July 19, 1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			9:50 am			SM	Sand silt mixture with gravel. Brown grey. Nonodorous.
		90ppm		5		CL	Silty clay. Grey.
		70ppm		10		ML	Fine silt. Green grey.
		55ppm		15		CL	Slightly silty clay. Green grey
		55ppm		20			
		20ppm		25			
		50ppm	11:40 pm	30		ML	Fine sandy silt. Brown.
							Bottom of boring at 30 feet.
				35			
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6716.14 | FIGURE NO.

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 In.	BORE ELEV.	BORE NO. B-2
DATE: July 19,1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			12:25			SM	Sand silt mixture. Brown grey.
		120ppm		5		CL	Slightly silty clay. Grey.
		60ppm		10		ML	Clayey silt. Grey.
		60ppm		15		SM	Silty Sand. Brown grey.
		60ppm		20		CL	Silty clay. Grey.
		60ppm		25		ML	Fine sandy silt. Brown.
		90ppm	1:45 pm	30			Bottom of boring at 30 feet.
				35			
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6716.14 | FIGURE NO.

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 In.	BORE ELEV.	BORE NO. B-3
DATE: July 19, 1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			2:30 pm			SM	Sand silt mixture with gravel. Brown grey.
		110ppm		5		CL	Silty clay. Grey.
		80ppm		10		ML	Slightly clayey silt. Grey.
		120ppm		15		CL	Slightly silty clay. Grey.
		180ppm		20		ML	Sandy silt. Grey.
		80ppm		25			
		60ppm		30		CL	Silty clay. Deep brown.
			4:00 pm	35			Bottom of boring at 35 feet.
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6716.14 | FIGURE NO.

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 In.	BORE ELEV.	BORE NO. B-4
DATE: July 20, 1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			7:50 am			SM	Sand silt mixture with gravel. Black.
		80ppm		5		CL	Slightly silty clay. Green grey.
		70ppm		10		ML	Clayey silt. Green grey.
		1600 ppm		15		CL	Slightly silty clay.
		500 ppm		20		ML	Sandy silt. Brown.
		80ppm		25		CL	Slightly silty clay. Grey.
		30ppm		30		ML	Silty sand. Brown.
		30ppm	9:50 am	35			Bottom of boring at 35 feet.
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6714.16 | FIGURE NO.

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 in.	BORE ELEV.	BORE NO. B-5
DATE: July 20, 1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			10:25 am			SM	Sand silt mixture with gravel. Grey.
		30ppm		5		ML	Sand silt. Grey brown.
		600ppm		10			
		600ppm		15		CL	Sandy silty clay. Grey.
		70ppm		20			
		40ppm		25		ML	Sandy silt. Grey.
		60ppm		30			
		40ppm	12:25 pm	35			Bottom of boring at 35 feet.
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6714.16 | FIGURE NO.

LOG OF BORING

DRILL RIG: CME 45	BORE DIA. 6 3/4 In.	BORE ELEV.	BORE NO. B-6
DATE: July 20, 1988			

SAMPLE BULK	SAMPLE TUBE	VAPOR READING	TIME	DEPTH, FT.	SOIL/ROCK SYMBOL	SOIL/ROCK TYPE	DESCRIPTION & REMARKS
			1:15 pm			SM	Sand silt mixture with gravel. Grey.
		60ppm		5			
				10		ML	Silty sand. Grey brown.
		350ppm					
		1200 ppm		15		CL	Silty clay. Light brown.
		600ppm		20		SM	Silty sand. Grey. Brown.
		90ppm		25		ML	Sandy silt. Light brown.
		70ppm	2:25 pm	30			Bottom of boring at 35 feet.
				35			
				40			
				45			
				50			

PREPARED BY:
Jaykim Engineers, Inc.

Shell Western E and P Inc.,
20101 Golden West Street, Huntington Beach, Ca

PROJECT NO. 6714.16 | FIGURE NO.

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS • ENGINEERS • SCIENTISTS

CLOSURE REPORT

Shell Western
Exploration and Production, Inc.
Huntington Beach Unit
20101 Goldenwest Street
Huntington Beach, California

Prepared for:

Shell Western Exploration and Production, Inc.
20101 Goldenwest Street
Huntington Beach, California 92648

Prepared by:

AMAN ENVIRONMENTAL, INC.
100 South Citrus Avenue, Suite 2-B
Covina, California 91723

RECEIVED
AUG 8 1989
HEALTH CARE AGENCY
Environmental Health

June 24, 1989

I. INTRODUCTION

The following report describes the tank removal performed by Aman Environmental, Inc. (AEI) for the Shell Western Exploration and Production, Inc. (SWEPI) Huntington Beach Unit (the site) located at 20101 Goldenwest Street, Huntington Beach, California. Refer to Figure 1 - Site Location Map.

II. BACKGROUND

The site had two (2) 10,000-gallon underground storage tanks, one containing gasoline and one containing stoddard solvent, associated with the site maintenance yard. Refer to Figure 2 - Site Plan and Sample Locations. SWEPI, projecting no further use for the tanks, retained AEI to remove them.

III. TANK REMOVAL

AEI secured closure permits from the Orange County Health Care Agency, Environmental Health, Waste Management Section (OCHCA), and from the City of Huntington Beach Fire Department, Fire Prevention Division (HBFD). Refer to Appendix A - OCHCA and HBFD Permits.

The South Coast Air Quality Management District (SCAQMD) was notified by AEI and assigned reference number 89-1027 to the project in accordance with Rule 1166 excavation permit (AEI application number A/N 180871) notification requirement.

On April 4, 1989, the contents from both tanks were removed. The inside of each tank was washed, and the oxygen level was reduced by placing 150 pounds of dry ice into each tank. The tanks were observed to contain no visible contamination upon inspection by a Certified Industrial Hygienist. The tanks were removed and transported to American Metal Recycling, Inc. in Ontario, California. Refer to Appendix B - Tank Removal Certificates and Tank Disposal Form.

During tank excavation operations, a 1-foot diameter slotted steel liner was encountered and removed from the northeast corner of the stoddard solvent tank. The 4-foot long casing was welded to the base of a 4-inch diameter steel riser pipe, and total length of the vessel was approximately 8 feet. The slotted liner was packed with coarse gravel, and noticeable hydrocarbon odors were detected inside the vessel.

IV. SOIL SAMPLING AND LABORATORY ANALYSIS

Samples GT-EX-1 and GT-EX-2 were obtained at the base of each end of the gasoline tank, and samples ST-EX-1 and ST-EX-2 were obtained at the base of each end of the solvent tank, at a depth of approximately 12 feet (see Figure 2). Each soil sample was collected using a backhoe scoop, placed into 250-ml glass jars with Teflon caps, labeled, entered into AEI chain-of-custody protocol, then packed on ice prior to transport to the laboratory for analysis.

Because soil contamination was detected during excavation around the eastern end of the solvent tank, two additional soil samples were collected. One sample, ST-EX-1A, was taken approximately 2 feet beneath sample ST-EX-1, at a depth of about 14 feet, and one sample, SP-GS-1, was taken from the contaminated soil stockpiled to the south of the excavation (Figure 2).

The soil samples were submitted to Terra Tech Labs, Inc. (TTL) of Huntington Beach, California for analysis of total petroleum hydrocarbons (TPH) in accordance with modified EPA Method 8015 using gasoline and stoddard solvent as calibration standards, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) in accordance with EPA Method 8020. Analytical results for soil samples GT-EX-1, GT-EX-2, and ST-EX-2 indicated TPH concentrations below the detection limit of 1 milligram per kilogram, equivalent to parts per million (ppm), and BTEX concentrations below the detection limit of 0.01 ppm for benzene and toluene, and 0.05 ppm for ethylbenzene and total xylenes. Analytical results for samples ST-EX-1, ST-EX-1A, and SP-GS-1 indicated TPH concentrations ranging from 3,550 ppm in ST-EX-1 to 20,700 ppm in ST-EX-1A. Concentrations of benzene ranged from 6.17 ppm in SP-GS-1 to 90.6 ppm in ST-EX-1A. Concentrations of ethylbenzene ranged from 6.24 ppm in SP-GS-1 to 46.2 ppm in ST-EX-1A. Concentrations of total xylenes ranged from 52.2 ppm in SP-GS-1 to 339 ppm in ST-EX-1A. Refer to Table 1 - Summary of Analytical Results, and to Appendix C - Laboratory Analytical Reports and Chain-of-Custody Records.

V. EXCAVATION OF CONTAMINATED SOIL

On April 10, 1989, excavation of contaminated soil commenced around the east end of the former solvent tank location. Soil was stockpiled and covered with visqueen, pending analytical results from additional soil samples collected at various depths. Analytical results of soil samples ST-EX-7 and ST-EX-8, taken at approximate depths of 26 and 32 feet below the surface, respectively, still indicated elevated concentrations of TPH and BTEX (see Table 1). On April 13, excavation ceased due to safety

considerations based on proximity to surface structures and buildings. Approximately 640 cubic yards (956.36 tons) of contaminated soil had been excavated to an estimated depth of 35 feet below grade. Refer to Figure 3 - Site Plan and Boring Locations, and to Figure 4 - Cross Section A-A' - Boring and Sample Locations.

On April 13 and 14, the contaminated soil stockpiled on-site was removed and disposed under manifest to Casmalia Resources, a State permitted disposal facility in Casmalia, California, subject to all applicable government regulations. Refer to Appendix D - Hazardous Waste Manifests.

VI. DRILLING, ADDITIONAL SOIL SAMPLING AND ANALYSIS

Because additional excavation of contaminated soil could no longer be performed safely, it was decided to conduct a subsurface investigation to determine lateral and vertical extent of remaining contamination. The investigation included drilling 3 soil test borings, and analyzing the soils sampled for TPH (also known as total extractable petroleum hydrocarbons, TEPH) and for BTEX using a mobile analytical laboratory located on-site.

On June 27, 1989, AEI drilled, logged and sampled soils from borings PB-1, PB-2, and PB-3 located along the north and east sides of the excavation (see Figure 3). The borings were drilled using 3.25-inch inside diameter (ID) continuous-flight, follow-stem augers. Borings PB-1 and PB-3 were drilled to a total depth of 36 feet below surface and boring PB-2 was slant-drilled and projected beneath the excavation to a total depth of 40 feet (approximately 35 feet vertical depth). Groundwater was encountered at a depth of approximately 35 feet. Soil cuttings were logged continuously and monitored for volatile organic compounds (VOC) using a field organic vapor detector. Samples were collected at approximately 5-foot intervals (10-foot intervals in boring PB-2) from surface to total depth of each boring.

Soil samples were collected using a Modified California sampler containing two 2-inch O.D., 6-inch-long, brass retainers. Soil within the upper retainer was examined on-site for evidence of contamination and characterized using the Unified Soil Classification system (USCS). Soil within the lower retainer was immediately sealed, labeled, entered into AEI chain-of-custody protocol, and delivered to the mobile laboratory for analysis.

Sampling equipment was thoroughly washed between sample collections using an aqueous solution of phosphate detergent followed by tap water and distilled water rinses. Clean augers were used in each

boring. Borehole information including soil conditions, was documented on soil test boring logs included in Appendix E.

Soil samples were submitted to an on-site mobile laboratory provided by Enseco-CRL of Garden Grove, California, for TEPH analysis by modified EPA Method 8015 using stoddard solvent as a calibration standard, and for BTEX by EPA Method 8020. Analytical results for soils sampled from the borings indicated TEPH concentrations below the detection limit of 10 ppm, except for sample PB1-25' with 10 ppm, and for a grab sample of cuttings from boring PB2 at an approximate depth of 22 feet (labeled GS2-22') at 180 ppm. Analytical results for samples PB1-35', PB2-40', and PB3-35' indicated BTEX concentrations below the detection limit of 0.1 ppm. Results for sample PB1-25' indicated concentrations of benzene at 0.3 ppm, of toluene at 0.7 ppm, of ethylbenzene at 0.3 ppm, and of total xylenes of 0.9 ppm. Results for cuttings grab sample GS2-22' indicated concentrations of toluene at 0.2 ppm, of total xylenes at 6.6 ppm, and of benzene and ethylbenzene below detection (see Table 1).

VII. CONCLUSION

Based on the analytical results of soils sampled from borings PB1, PB2, and PB3, it appears that solvent contamination has not extended laterally to the east or north of the excavation. Also, based on no detectable concentrations of TPH or BTEX being encountered in samples taken at total depths of the borings, it appears that solvent contamination has not extended deeper than the excavation. Therefore, AEI concludes that the current excavation has adequately removed the extent of solvent contamination in the soil at the site.

Backfilling activities will commence immediately after clean closure has been indicated by the Orange County Health Care Agency. The former tank locations will be capped with impermeable building materials (i.e. asphalt, concrete) after the completion of backfill and sub-grade preparation.

VIII. CLOSURE

This report has been prepared under the direction of William B. Reese, California Registered Geologist, Number 4475. It is in accordance with accepted practices in the State of California.

Submitted By:

John W. Kosztowny, Environmental Geologist
AMAN ENVIRONMENTAL, INC.

William B. Reese, R.G. - Senior Project Manager
AMAN ENVIRONMENTAL, INC.

JWK/mep
fl: 7030\Closure.Rpt

TABLES

TABLE 1

Summary of Analytical Results
Shell Western Exploration and Production, Inc.
Huntington Beach Unit
Huntington Beach, California
(AEI Project Number 88-7030)

Sample I.D.	Depth (ft)	TPH (1) (mg/kg)	Benzene (2) (mg/kg)	Toluene (2) (mg//kg)	Ethylbenzene (2) (mg/kg)	Total Xylenes (2) (mg/kg)
GT-EX-1	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
GT-EX-2	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
ST-EX-1	12	3550	0.97	11.66	6.78	59.3
ST-EX-1A	14	20700	3.44	90.6	46.2	399
ST-EX-2	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
SP-GS-1		4070	0.83	6.17	6.24	52.2
ST-EX-3	20	5210	ND<0.01	6.04	ND<0.05	41.0
ST-EX-4		295	ND<0.01	0.92	ND<0.05	0.25
ST-EX-7	26	5820	22.5	48.9	177	56.6
ST-EX-8	32	1090	0.518	4.06	3.83	29.5
PB1-5'		ND<10				
PB1-10'		ND<10				
PB1-15'		ND<10				
PB1-20'		ND<10				
PB1-25'		10	0.3	0.7	0.3	0.9
PB1-30'		ND<10				
PB1-35'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
PB2-10'		ND<10				
PB2-20'		ND<10				
PB2-30'		ND<10				
PB2-40'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
GS2-22' *		180	ND<0.1	0.2	ND<0.1	6.6
PB3-5'		ND<10				
PB3-10'		ND<10				
PB3-15'		ND<10				
PB3-20'		ND<10				
PB3-25'		ND<10				
PB3-30'		ND<10				
PB3-35'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1

* Grab sample of soil cuttings from boring PB2 at approximately 22 feet.

(1) Total Petroleum Hydrocarbons, also known as total extractable petroleum hydrocarbons (TEPH); analyzed in accordance with modified EPA Method 8015.

(2) Analyzed in accordance with EPA Method 8020.

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

ND Not detected at the stated detection limit.

FIGURES



SOURCE:

USGS – SEAL BEACH QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)
Mapped, edited & published by
the Geological Survey

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS • ENGINEERS • SCIENTISTS

100 S. Citrus Ave
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

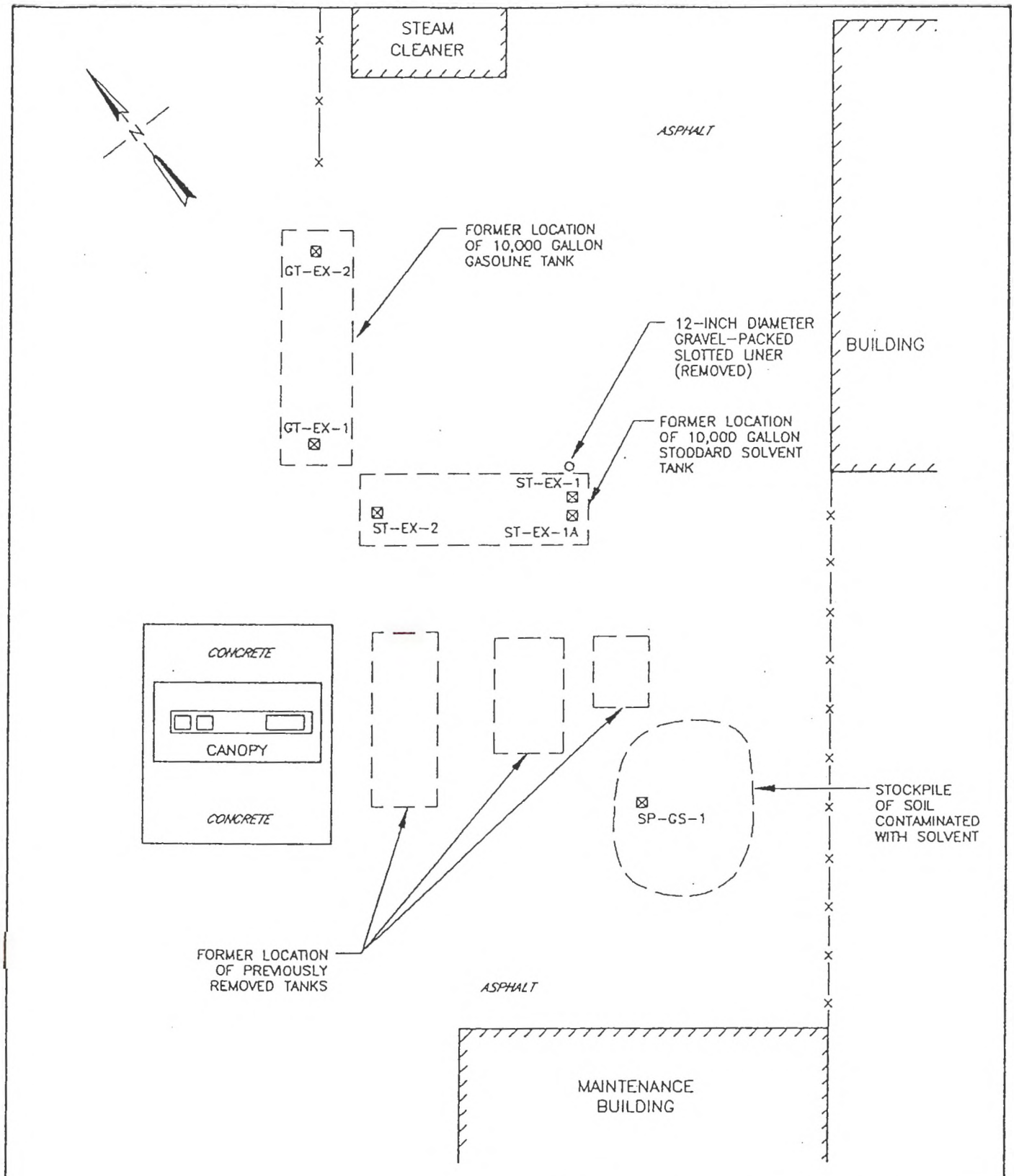
SITE LOCATION MAP

SHELL WESTERN EXPL. & PROD., INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

FIGURE 1

Date: 7/89

Scale: 1"=2000'



LEGEND

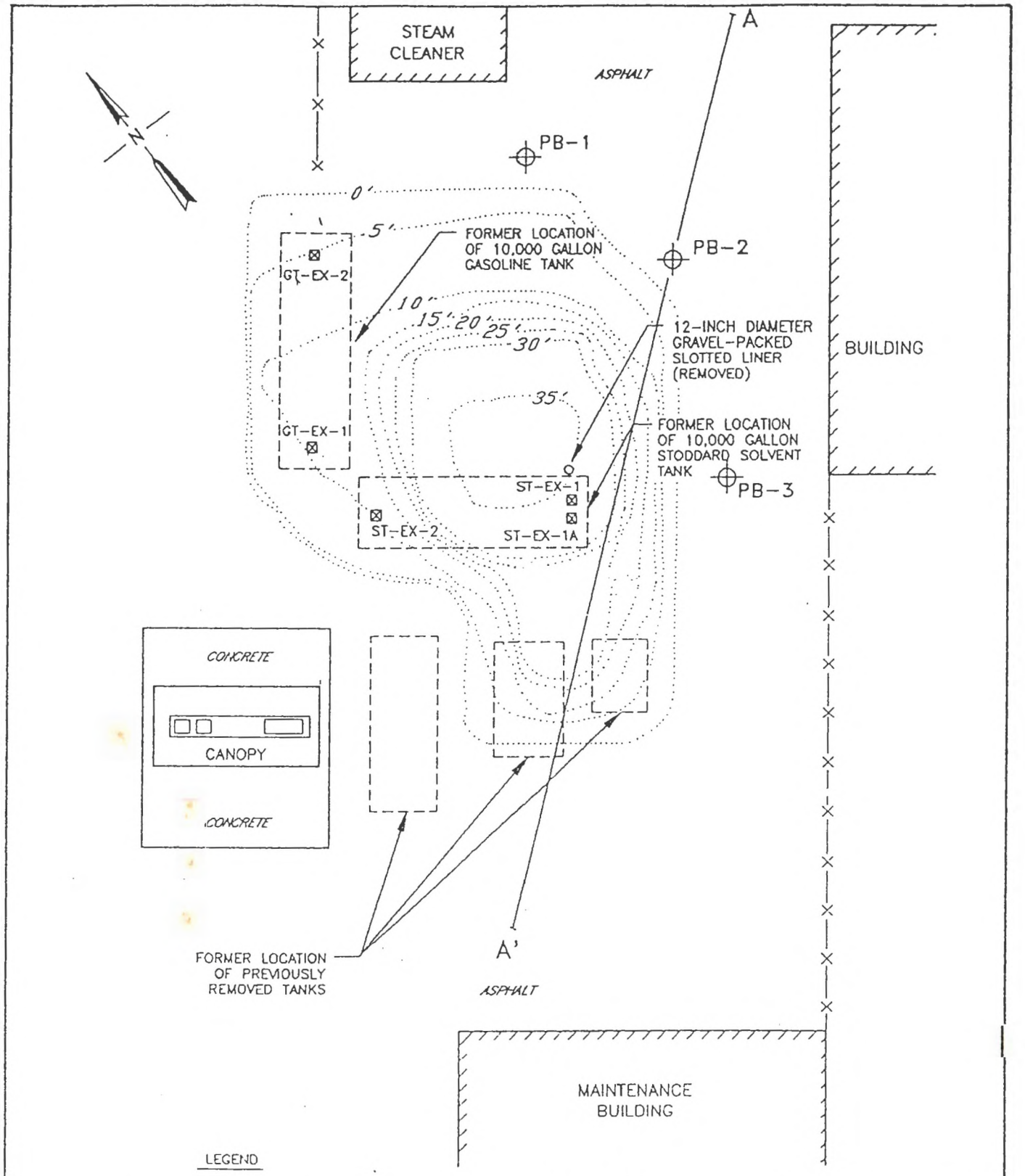
⊠ ST-EX-2 SOIL GRAB SAMPLE LOCATION

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS • ENGINEERS • SCIENTISTS
100 S. Citrus Ave
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

SITE PLAN & SAMPLE LOCATIONS

SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030
FIGURE 2

Not to Scale Date: 7/89



LEGEND

A–A' CROSS SECTION FROM FIGURE 4

PB-2 BORING LOCATION

..... 5' ..... EXCAVATION DEPTH CONTOUR

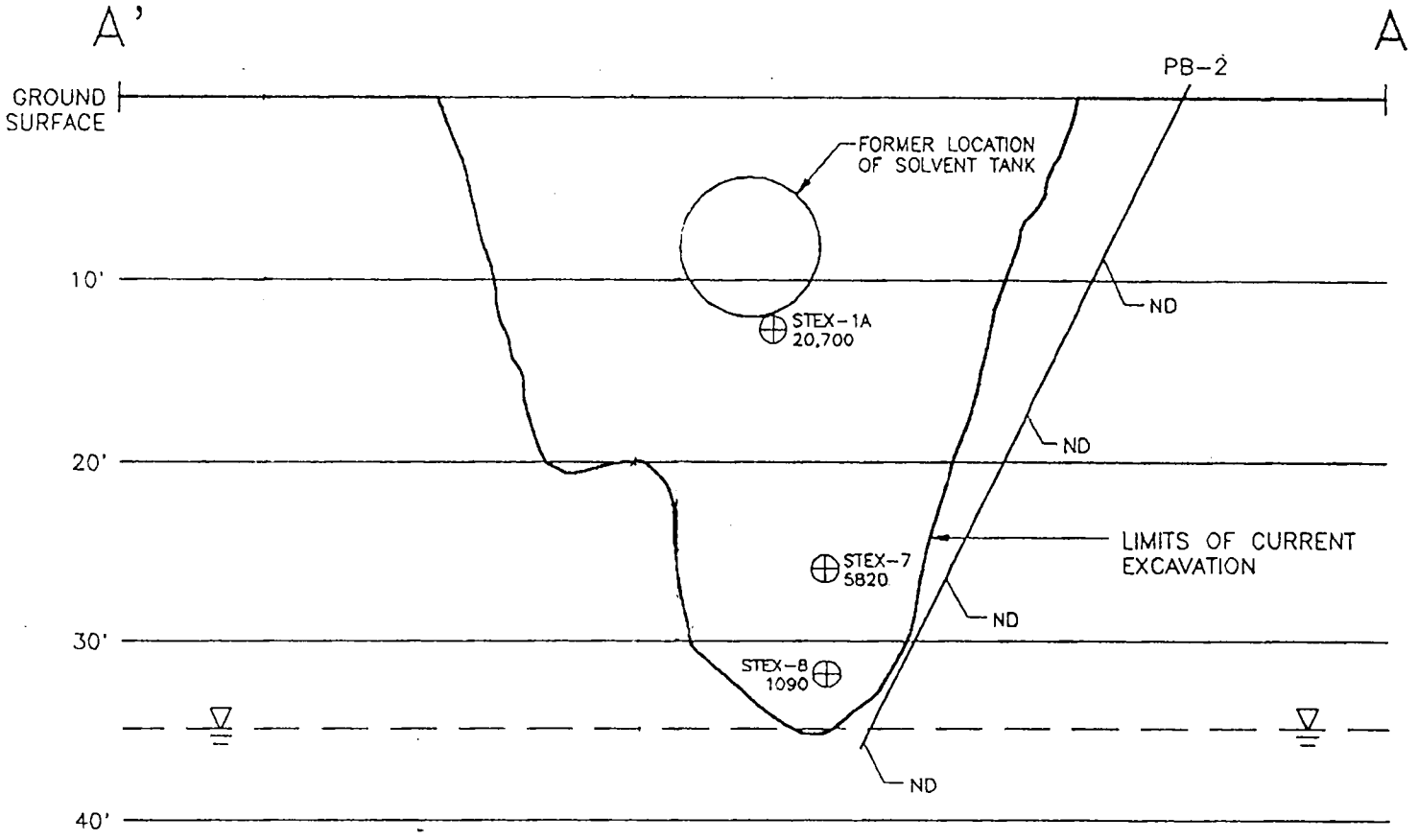
ST-EX-2 SOIL GRAB SAMPLE LOCATION

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS
100 S. Citrus Ave
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

SITE PLAN & BORING LOCATIONS

SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030
FIGURE 3

Not to Scale Date: 7/89



NOTE:

PB-2 IS ANGLED BORING

⊕ = EXCAVATION GRAB SAMPLE

ND = NOT DETECTABLE

OTHER NUMBERS REPRESENT TOTAL PETROLEUM HYDROCARONS (mg/kg)

HORIZONTAL DIMENSIONS NOT TO SCALE

LOCATION OF CROSS SECTION SHOWN ON FIGURE 3

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

100 S. Citrus Ave
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

CROSS SECTION A-A'
BORING AND SAMPLE LOCATIONS

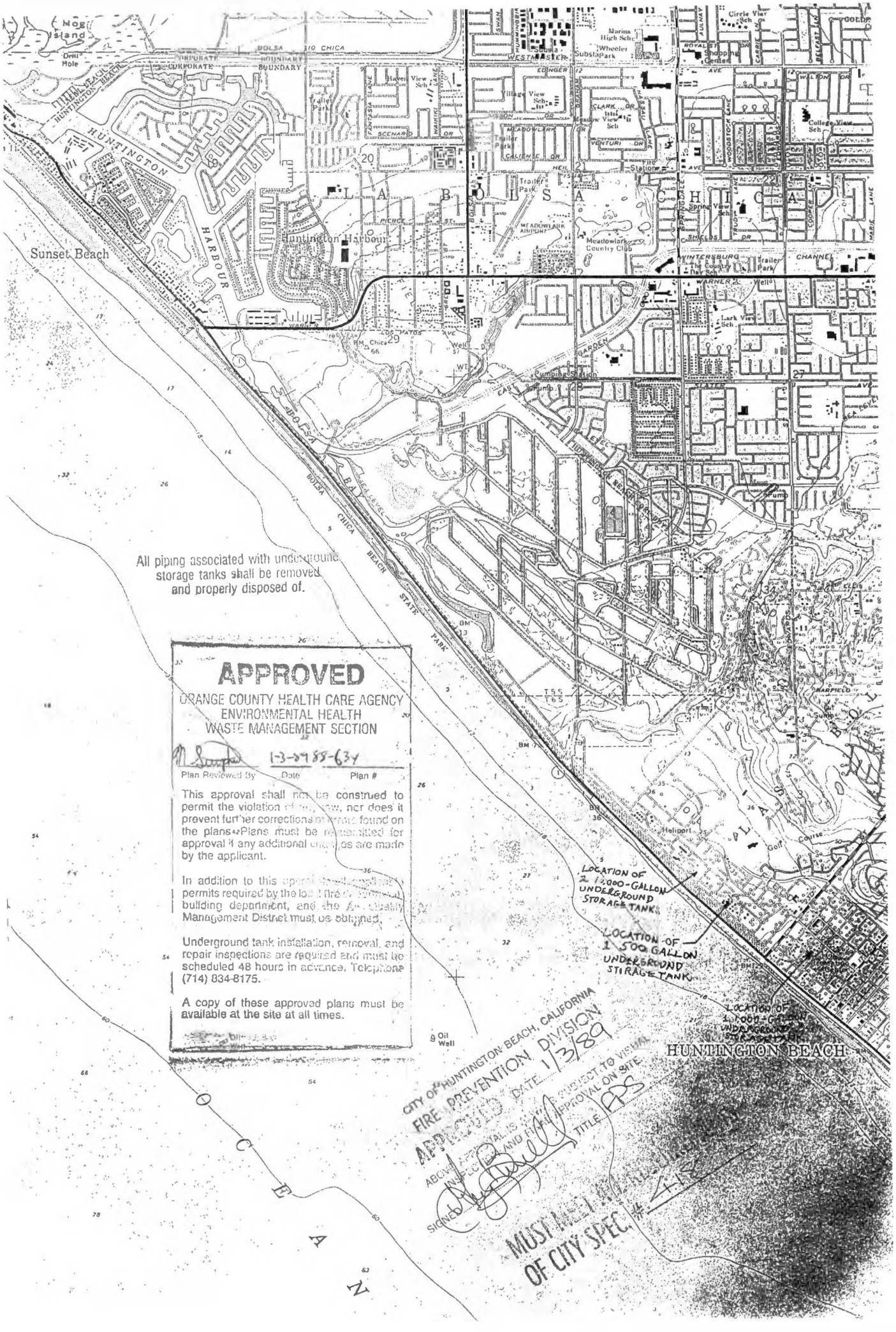
SHELL WESTERN EXPL. & PROD., INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

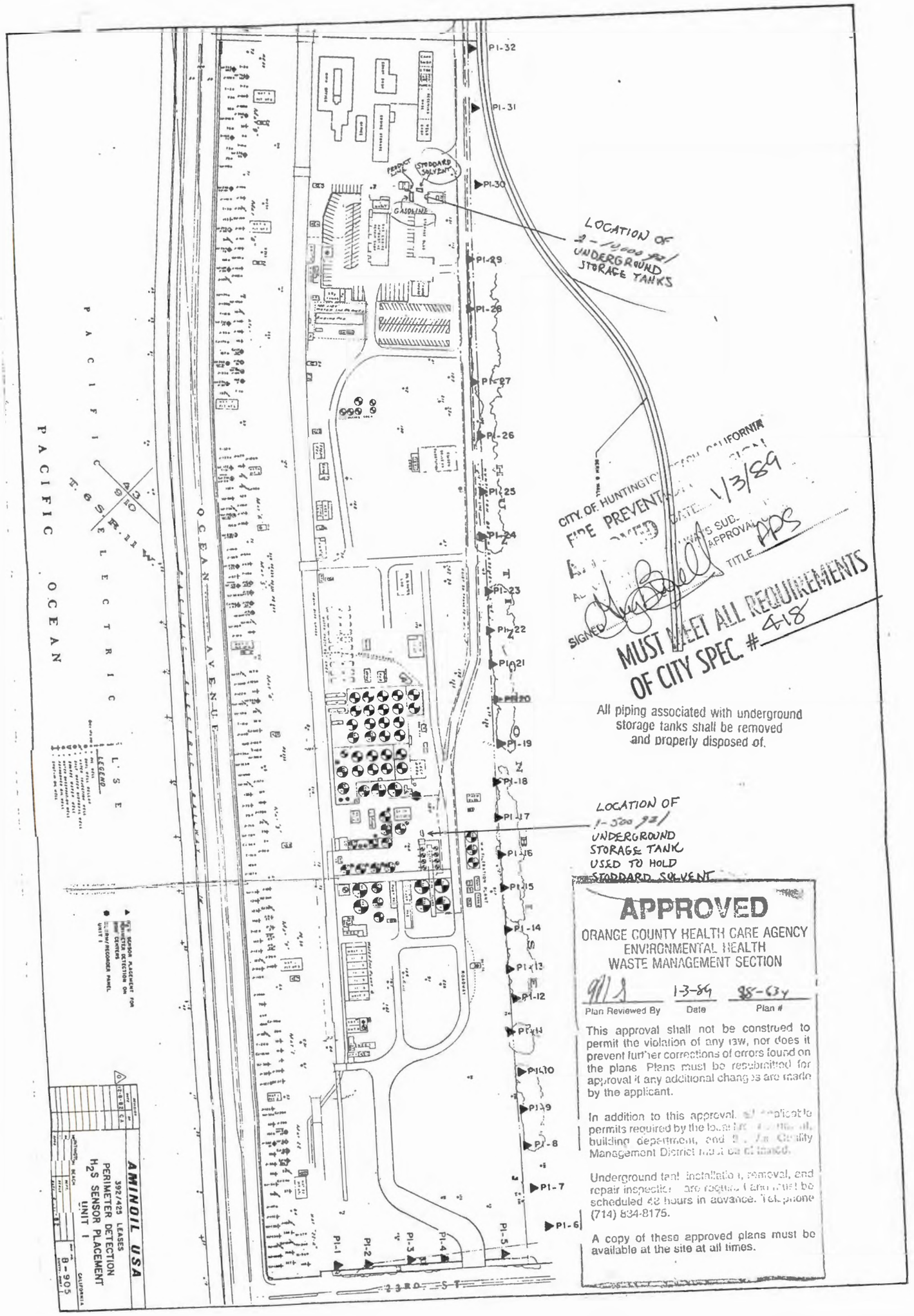
FIGURE 4

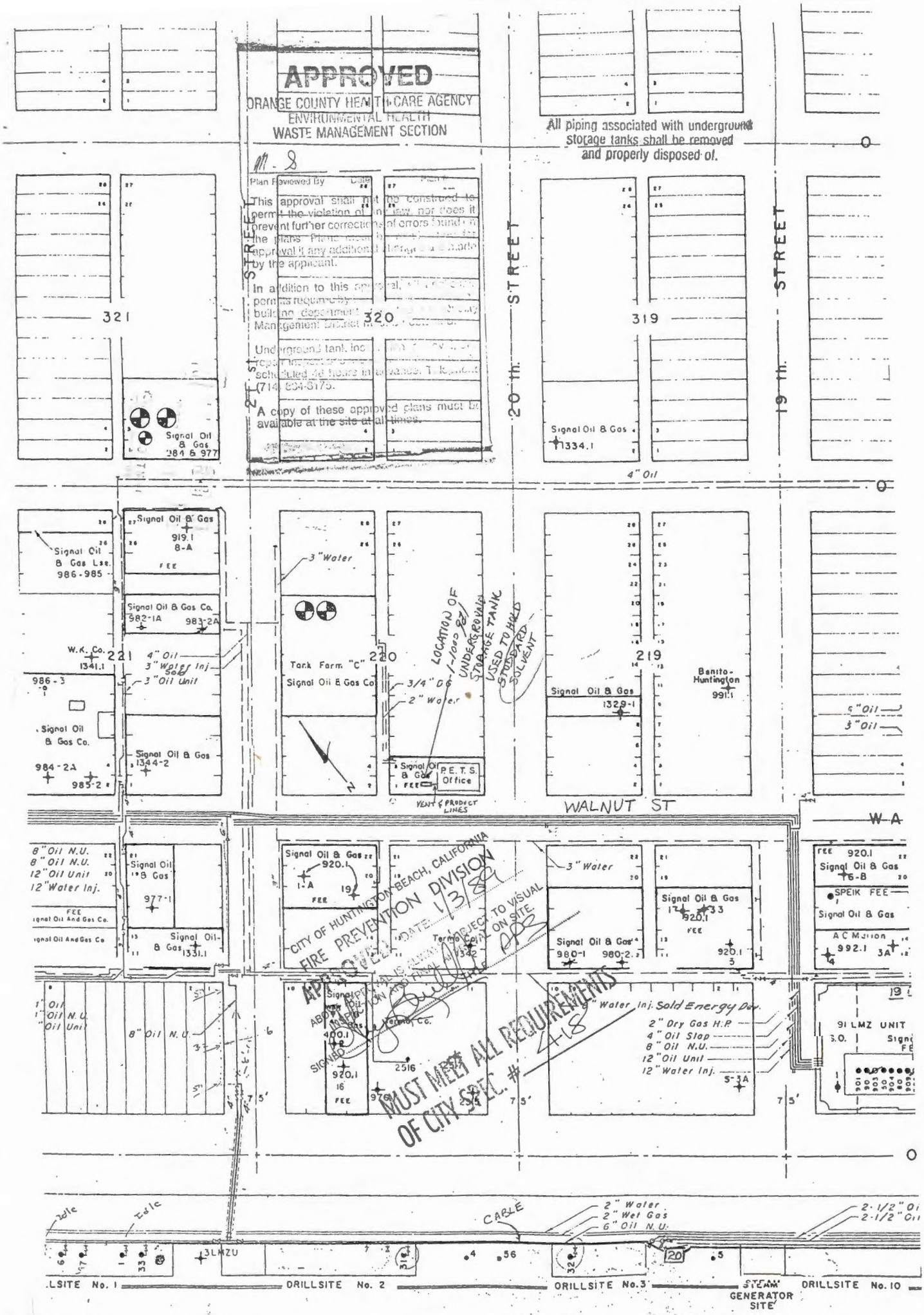
Date: 4/19/89

APPENDIX A

OCHCA AND HBFD PERMITS


All piping associated with underground storage tanks shall be removed and properly disposed of.
APPROVED
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION
1-3-89 88-634
Plan Reviewed By Date Plan #
This approval shall not be construed to permit the violation of any law, nor does it prevent further corrections of errors found on the plans. Plans must be resubmitted for approval if any additional changes are made by the applicant.
In addition to this approval, all applicable permits required by the local fire department, building department, and the Air Quality Management District must be obtained.
Underground tank installation, removal, and repair inspections are required and must be scheduled 48 hours in advance. Telephone (714) 834-8175.
A copy of these approved plans must be available at the site at all times.
LOCATION OF 2 12,000-GALLON UNDERGROUND STORAGE TANKS
LOCATION OF 1,500 GALLON UNDERGROUND STORAGE TANK
LOCATION OF 1,000-GALLON UNDERGROUND STORAGE TANK
CITY OF HUNTINGTON BEACH, CALIFORNIA
FIRE PREVENTION DIVISION
APPROVED DATE 1/3/89
ABOVE APPROVALS SUBJECT TO VIOLATION OF LAW AND APPROVAL ON SITE
SIGNED
TITLE FPS
MUST MEET ALL OF CITY SPEC.
HUNTINGTON BEACH
Sunset Beach
Huntington Harbour
Meadowlark Airport
Meadowlark Country Club
Pumping Station
Heliport
Golf Course
Oil Well
OCEAN


PACIFIC OCEAN
OCEAN AVENUE
PACIFIC ELECTRIC
LEASE
PI-32
PI-31
PI-30
PI-29
PI-28
PI-27
PI-26
PI-25
PI-24
PI-23
PI-22
PI-21
PI-20
PI-19
PI-18
PI-17
PI-16
PI-15
PI-14
PI-13
PI-12
PI-11
PI-10
PI-9
PI-8
PI-7
PI-6
PI-5
PI-4
PI-3
PI-2
PI-1
PERFECT
STODDARD SOLVENT
GASOLINE
LOCATION OF 2 - 10,000 gal UNDERGROUND STORAGE TANKS
LOCATION OF 1 - 500 gal UNDERGROUND STORAGE TANK USED TO HOLD STODDARD SOLVENT
CITY OF HUNTINGTON BEACH, CALIFORNIA
FIRE PREVENTION BUREAU
DATE 1/3/89
APPROVED
APPROVAL
TITLE FPS
SIGNED
MUST MEET ALL REQUIREMENTS OF CITY SPEC. # 418
All piping associated with underground storage tanks shall be removed and properly disposed of.
APPROVED
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION
Plan Reviewed By
1-3-89
Date
88-63y
Plan #
This approval shall not be construed to permit the violation of any law, nor does it prevent further corrections of errors found on the plans. Plans must be resubmitted for approval if any additional changes are made by the applicant.
In addition to this approval, all applicable permits required by the local fire department, building department, and Air Quality Management District must be obtained.
Underground tank installation, removal, and repair inspections are required. Each must be scheduled 48 hours in advance. Telephone (714) 834-8175.
A copy of these approved plans must be available at the site at all times.
AMINOIL USA
392/429 LEASES
PERIMETER DETECTION
H_2S SENSOR PLACEMENT
UNIT I
B-905


APPROVED
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION
Plan Reviewed By
Date
This approval shall not be construed to permit the violation of any law, nor does it prevent further corrections of errors found in the plans. Plans must be approved if any additional changes are made by the applicant.
In addition to this approval, all applicable permits required by the building department, Management District must be obtained.
Underground tank inspections must be scheduled 48 hours in advance. Telephone (714) 834-5175.
A copy of these approved plans must be available at the site at all times.
All piping associated with underground storage tanks shall be removed and properly disposed of.
STREET
20 th. STREET
19 th. STREET
321
320
319
Signal Oil & Gas 984 & 977
Signal Oil & Gas 1334.1
4" Oil
Signal Oil & Gas Lse. 986-985
Signal Oil & Gas 919.1 8-A FEE
Signal Oil & Gas Co. 982-1A 983-2A
W.K. Co. 1341.1
221
4" Oil
3" Water Inj
3" Oil Unit
986-3
Signal Oil & Gas Co.
984-2A
985-2
Signal Oil & Gas 1344-2
3" Water
Tank Farm "C"
220
Signal Oil & Gas Co
LOCATION OF 1-1000 GAL UNDERGROUND STORAGE TANK USED TO HOLD STODDARD SOLVENT
3/4" Oil
2" Water
Signal Oil & Gas
P.E.T.S. Office
VENT & PRODUCT LINES
219
Signal Oil & Gas 1329-1
Benito-Huntington 991.1
6" Oil
3" Oil
WALNUT ST
8" Oil N.U.
8" Oil N.U.
12" Oil Unit
12" Water Inj.
Signal Oil & Gas 977-1
Signal Oil & Gas 1331.1
Signal Oil & Gas 920.1 1-A FEE
Signal Oil & Gas 920.1 19 FEE
Signal Oil & Gas 400.1 16 FEE
920.1 16 FEE
2516
976
3" Water
Signal Oil & Gas 980-1 980-2
Signal Oil & Gas 920.1 17 33 FEE
920.1 5
FEE 920.1 Signal Oil & Gas 6-B
SPEIK FEE
Signal Oil & Gas
A C Mellon 992.1 3A
CITY OF HUNTINGTON BEACH, CALIFORNIA
FIRE PREVENTION DIVISION
DATE 1/3/89
SUBJECT TO VISUAL INSPECTION ON SITE.
APPROVED
SIGNED
MUST MEET ALL REQUIREMENTS OF CITY SPEC. # 418
1" Oil
1" Oil N.U.
" Oil Unit
8" Oil N.U.
5"
7.5'
3" Water Inj. Sold Energy Dev.
2" Dry Gas H.P.
4" Oil Slop
8" Oil N.U.
12" Oil Unit
12" Water Inj.
S-3A
91 LMZ UNIT
3.0.
Edlc
Edlc
CABLE
2" Water
2" Wet Gas
6" Oil N.U.
2-1/2" Oi
2-1/2" Oil
3LMZU
DRILLSITE No. 1
DRILLSITE No. 2
DRILLSITE No. 3
STEAM GENERATOR SITE
DRILLSITE No. 10

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

District 348
Occupancy group
Date 4/4/89
Valid Period 4/4/89

FIRE DEPARTMENT PERMIT

As per Article 4 of the Uniform Fire Code a permit is issued to:

(PLEASE PRINT)
PERMITTEE John W. Kosztowmy

BUSINESS NAME Aman Environmental BUSINESS PHONE 818-967-4287

BUSINESS ADDRESS 100 S. Citrus Ave., Ste. 2B, Covina, CA 91723

PERMIT ISSUED FOR: Removal of two (2) 10,000 gallon gasoline tanks at the Shell facility, Pacific Coast Highway and Goldenwest (maintenance yard). Per Huntington Beach City Specification #418.

ISSUED BY Scott Freeman

PERMITTEE SIGNATURE John W Kosztowny AMAN ENV INC.

THIS PERMIT MUST BE POSTED ON PREMISES

FD-036 (10/88)

APPENDIX B

TANK REMOVAL CERTIFICATES
AND
TANK DISPOSAL FORM

CTL ENVIRONMENTAL SERVICES
24404 S. Vermont Ave. #307
Harbor City, California 90710
(213) 530-5006

TANK REMOVAL CERTIFICATE #: 01063
Date: 4/4/89
Permit #:
Site: Shell Oil Co.

TANK DESCRIPTION: U. G. Gasoline
TANK SIZE: 10K gal
ADDRESS OF TANK: 2101 Golden West St.
LOCATION OF TANK: N. of Maintenance bldg, Huntington Beach

CLIENT: Nieto & Sons

TANK CONTENTS (if known): Unleaded Gasoline

TANK NUMBER (if any):

RESULTS OF TANK INSPECTION: Approved for removal

The tank described above has been inspected and found to be gas free based on readings obtained with an MSA type 2A Explosivity Meter (LEL of zero percent). A visual inspection has been made of the interior of the tank and no visible contamination has been observed except as noted below:

EXCEPTION: None

RECEIVED
APR 1 1 89
AMAN ENVIRONMENTAL, INC.

The tank described above is approved for removal and transportation.

INSPECTED BY: Ron Nish

CERTIFIED BY: STUART E. SALOT, Ph.D., C.I.H.
CERTIFIED INDUSTRIAL HYGIENIST (#1433 & 1973)

CTL ENVIRONMENTAL SERVICES
24404 S. Vermont Ave. #307
Harbor City, California 90710
(213) 530-5006

TANK REMOVAL CERTIFICATE #: 01064
Date: 4/4/89
Permit #:
Site: Shell Oil Co.

TANK DESCRIPTION: U.G. Solvent
TANK SIZE: 10K gal
ADDRESS OF TANK: 20101 Golden West St.
LOCATION OF TANK: N. of Maintenance Bldg

CLIENT: Nieto & Sons

TANK CONTENTS (if known): Stoddard Solvent

TANK NUMBER (if any):

RESULTS OF TANK INSPECTION: Approved for removal

The tank described above has been inspected and found to be gas free based on readings obtained with an MSA type 2A Explosivity Meter (LEL of zero percent). A visual inspection has been made of the interior of the tank and no visible contamination has been observed except as noted below:

EXCEPTION: None

The tank described above is approved for removal and transportation.

INSPECTED BY: Ron Nunn

CERTIFIED BY: STUART E. SAGOT, Ph.D., C.I.H.
CERTIFIED INDUSTRIAL HYGIENIST (#1433 & 1973)

Wiles & Company (714) 825-6970

AMERICAN FUEL TANK METAL RECYCLING, INC.

2202 South Milliken Avenue
Ontario, CA 91761
(714) 947-2888

No. 30597

TANK DISPOSAL FORM

Date: 4-4 ,19 89

Job #

P. O. #

CONTRACTOR: Aman Bros. Environmental Eng

ADDRESS: 100 S. Citrus Av, Ste 2-B Covina, CA 91723

JOB SITE: Huntington Beach Maint Co.

ADDRESS: 20101 Golden West St. Huntington Beach, CA

DESTINATION: A.M.R. 2202 S. Milliken Ave., Ontario, CA 91761

DATE	TIME	PROJECTED TANKS	ORDERED BY	LIC. NO

SPECIAL INSTRUCTIONS

TIME IN:

TIME OUT

✓	Services Rendered	Cost
___	Disposal Fee	200.00
___	Extensive Loading Time	150.00
___	Disposal Fee with Permit	300.00
___	Fiberglass Tank Disposal Fee Per Tank	400.00
___	Delivered	200.00
___	Bobtail Disposal Fee	250.00
___	Cancellation Fee D.C.	250.00
	TOTAL CHARGES $	0

All fees incurred are per load unless specified. Terms are net 30 days from date of invoice. Contractor's signature represents acceptance of terms for payment, and confirms that tank removal complies with State laws.

CONTRACTOR'S SIGNATURE

TANKS RECEIVED

QTY.	GALLONS	TYPE F* S*	NET TONS	TOTAL
	280	F S	.14	
	500	F S	.21	
	550	F S	.24	
	1000 - 12 ft.	F S	.44	
	1000 - 6 ft.	F S	.61	
	1500	F S	.87	
	2000	F S	.97	
	2500	F S	1.14	
	3000	F S	1.32	
	4000	F S	1.64	
	5000	F S	2.42	
	6000	F S	2.84	
	7500	F S	3.26	
	8000	F S	3.44	
	9000	F S	3.82	4.33
2	10000	F S ✓	4.33	4.33
	12000	F S	4.93	

NO. OF TANKS: 2

TOTAL NET TONS: 8.66

*F — FIBERGLASS S — STEEL

CERTIFICATE OF TANK DISPOSAL / DESTRUCTION

THIS IS TO CERTIFY THE RECEIPT AND ACCEPTANCE OF THE TANK(S) AS SPECIFIED ABOVE. ALL MATERIALS SPECIFIED HAVE BEEN COMPLETELY DESTROYED FOR SCRAP PURPOSES ONLY.

AUTHORIZED REP

4-4-89
DATE

CONTRACTOR COPY

APPENDIX C

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY RECORDS

1058

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA 8015

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	CONCENTRATION (mg/kg)
GT-EX-1	ND (1.0)
GT-EX-2	ND (1.0)
ST-EX-1	3550
ST-EX-1A	20700
ST-EX-2	ND (1.0)
SP-GS-1	4070

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Newcombe-Dieso
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
GT-EX-1	ND (.01)	ND (.01)	ND (.05)	ND (.05)
GT-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
ST-EX-1	0.97	11.66	6.78	59.3
ST-EX-1A	3.44	90.6	46.2	339
ST-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
SP-GS-1	0.83	6.17	6.24	52.2

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Newcombe-Dion
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists

(714) 842-6[illegible]

RECEIVED

APR 1 3 89

AMAN ENVIRONMENTAL, INC.

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTERN E&P

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

DATE RECEIVED : APRIL 10, 1989
DATE ANALYZED : APRIL 11, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	CONCENTRATION (mg/kg)
ST-EX-3	5210
ST-EX-4	295

Reviewed&Approved: Lisa Newcombe-Deere
Date: 4/11/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTER E&P

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

DATE RECEIVED : APRIL 10, 1989
DATE ANALYZED : APRIL 11, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ST-EX-3	ND,.01	6.04	ND,.05	41.0
ST-EX-4	ND,.01	0.92	ND,.05	0.25

ND = Not detected at indicated level of detection.

Reviewed&Approved: Lisa Newcomb-Dieri
Date: 4/11/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

1030

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTERN E&P

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

DATE RECEIVED : APRIL 12, 1989
DATE ANALYZED : APRIL 12, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	CONCENTRATION (mg/kg)
STEX-7	5820

Reviewed&Approved: Lisa Nieuwenhuis-Dahl
Date: 4/12/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

RECEIVED
MAY 10 89
AMAN ENVIRONMENTAL, INC.

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTER E&P

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

DATE RECEIVED : APRIL 12, 1989
DATE ANALYZED : APRIL 13, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ST-EX-7	22.5	48.9	177	56.6

Reviewed&Approved: Lisa Newcombe Duerr
Date: 4/15/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTERN E&P

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

DATE RECEIVED : APRIL 13, 1989
DATE ANALYZED : APRIL 13, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	CONCENTRATION (mg/kg)
ST-EX-8	1090

Reviewed&Approved: Lisa Newcomb Dietl
Date: 4/15/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERS
SHELL WESTER E&P

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

DATE RECEIVED : APRIL 13, 1989
DATE ANALYZED : APRIL 13, 1989
PROJECT NUMBER : 1058-2
CLIENT NUMBER : 88-7030

SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ST-EX-8	0.518	4.06	3.83	29.5

Reviewed&Approved: Susie Newcombe-Dier
Date: 4/15/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

P.O. BOX 9406 • FOUNTAIN VALLEY, CALIFORNIA 92728

Enseco

Enseco - Mobile Laboratories
7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (800) ENSECO-8
FAX: (714) 893-6709

RECEIVED
JUL 05 89
ENVIRONMENTAL, INC.

Aman Environmental Inc.
100 S. Citrus Ave., Ste. 2B
Covina, CA 91723
ATTN: Mr. Brian Hayes

BATCH: 546
ANALYSES: TEPH, 8020

PROJECT: Shell Western, 2010 Goldenwest & PCH

Enclosed with this letter is the report on the analyses performed on samples 062689-1/19.

The samples were received by Enseco intact and with the chain-of-custody record attached.

Please note that ND means not detected and DL means detection limit.

Stated below are the pertinent quality control data.

Matrix: Soil

Date	Parameter (Method)	Average Spike Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
06/26	Stoddard Solvent (TEPH)	106.	44-161	1.	37
	Benzene	72.	45-119	1.	28
	Toluene	62.	55-122	3.	14
	Ethyl Benzene	85.	66-115	0.	13
	Total Xylenes (8020)	79.	64-116	0.	14
06/27	Benzene	71.	45-119	3.	28
	Toluene	65.	55-122	3.	14
	Ethyl Benzene	83.	66-115	0.	13
	Total Xylenes (8020)	78.	64-116	1.	14

Bill Moore
REVIEWED AND APPROVED

6-29-89
DATE

The Report Cover Letter is an integral part of this report.
This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

Enseco - Mobile Laboratories
7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (800) ENSECO-8
FAX: (714) 893-6709

Enseco

LABORATORY REPORT

TO:
Aman Environmental Inc.
100 S. Citrus Ave., Ste. 2B
Covina, CA 91723
ATTN: Mr. Brian Hayes

PROJECT:
Shell Western, 2010 Goldenwest & PCH

ANALYSIS NO.: 062689-1/19
DATE SAMPLED: 06/26/89
DATE REC'D: 06/26/89
BATCH: 546
MATRIX: Soil

Tests: Total Extractable Petroleum Hydrocarbons (TEPH, Stoddard Solvent)

Units: mg/kg

Sample Identification	Detection Limit	Results
PB3 - 5'	10.	ND*
PB3 - 10'	10.	ND
PB3 - 15'	10.	ND
PB3 - 20'	10.	ND
PB3 - 25'	10.	ND
PB3 - 30'	10.	ND
PB3 - 35'	10.	ND
PB1 - 5'	10.	ND
PB1 - 10'	10.	ND
PB1 - 15'	10.	ND
PB1 - 20'	10.	ND
PB1 - 25'	10.	10.
PB1 - 30'	10.	ND
PB1 - 35'	10.	ND

* ND means not detected at detection limit stated.

The Report Cover Letter is an integral part of this report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

Enseco - Mobile Laboratories
7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (800) ENSECO-8
FAX: (714) 893-6709

Enseco

LABORATORY REPORT

TO:
Aman Environmental Inc.
100 S. Citrus Ave., Ste. 2B
Covina, CA 91723
ATTN: Mr. Brian Hayes

PROJECT:
Shell Western, 2010 Goldenwest & PCH

ANALYSIS NO.: 062689-1/19
DATE SAMPLED: 06/26/89
DATE REC'D: 06/26/89
BATCH: 546
MATRIX: Soil

Test: Total Extractable Petroleum Hydrocarbons (TEPH, Stoddard Solvent)

Units: mg/kg

Sample Identification	Detection Limit	Results
PB2 - 20'	10.	ND*
GS2 - 22'	10.	180.
PB2 - 10'	10.	ND
PB2 - 30'	10.	ND
PB2 - 40'	10.	ND

* ND means not detected at detection limit stated.

The Report Cover Letter is an integral part of this report.
This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

Enseco - Mobile Laboratories
7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (800) ENSECO-8
FAX: (714) 893-6709

LABORATORY REPORT

TO:
Aman Environmental, Inc.
100 S. Citrus Ave., Ste. 2B
Covina, CA 91723
ATTN: Mr. Brian Hayes
PROJECT:
Shell Western, 2010 Goldenwest & PCH

ANALYSIS NO.: 062689-1/19
DATE SAMPLED: 06/26/89
DATE REC'D: 06/26/89
BATCH: 546
MATRIX: Soil

Tests: Aromatic Volatile Organics (SW846 - 8020)

Units: mg/kg

Results

Sample Identification	Detection Limit	Benzene	Toluene	Ethyl Benzene	Total Xylenes
PB1 - 25'	0.1	0.3	0.7	0.3	0.9
GB2 - 22'	0.1	ND*	0.2	ND	6.6
PB3 - 35'	0.1	ND	ND	ND	ND
PB1 - 35'	0.1	ND	ND	ND	ND
PB2 - 40'	0.1	ND	ND	ND	ND

* ND means not detected at detection limit stated.

The Report Cover Letter is an integral part of this report.
This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.: 88-7030

PROJECT NAME: SHELL WESTERN E & P

SAMPLERS: (Signature) JACK KOSZTOWNY Jack Kosztowny

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS 250 ml	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER	OTHER
ST-EX-1	4/4/89		SOIL } STODDARD SOLVENT CALIB. RUSH	✓			X		X						
ST-EX-1A	4/4/89			✓			X		X						
ST-EX-2	4/4/89			✓			X		X						
GT-EX-1	4/4/89		} GASOLINE CALIB 24-HOUR TURNAROUND PLEASE.	✓			X		X						
GT-EX-2	4/4		PLEASE GIVE VERBAL RESULTS	✓			X		X						
SP-GS-1	4/4		STODDARD SOLV. CALIB BY 04-05-89	✓			X		X						

TOTAL NUMBER OF CONTAINERS: 6

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature) Jack Kosztowny	DATE/TIME 04-04-89 1430	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature) Gilbert Hall	DATE/TIME 04-04-89 1430

COUNTY OF ORANGE/HEALTH CARE AGEN
ENVIRONMENTAL HEALTH (714) 834-80..
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 258
DATE RECEIVED: 04-04-89
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 4-5-89
ANALYST: Lisa Newcombe Dierl

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: MAINTENANCE YARD
2 - 10000. GAL. TANKS
2101 Golden West HB
DATE OF COLLECTION: 04-04-89
SAMPLE COLLECTOR: J. KOSZTOWNY
TELEPHONE NO.: 818-967-4287

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
ST-EX-1	Both Approved TPH Method AND EPA 8020	
STEX-1A	" "	" " " " " " "
STEX2	" "	" " " " " " "
GT-EX 1	" "	" " " " " " "
GTEX2	" "	" " " " " " "
SPGS1	" "	" " " " " " "

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	Mark Swyter	DC HCA	4-4-89 . 4-4-89
2.	John W Kosztowny	GEOLOGIST MAN ENV. INC.	4-4-89 . 4-4-89
3.	Gerard Allen	Chemist	4-4-89 . 4-5-89
4.			.
5.			.
6.			.

F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

CHAIN OF CUSTODY RECORD

1058-L

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
88-7030	SHELL WESTERN E&P INC.	JACK KOSZTOWNY Jack Kosztowny

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS 250 ml	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015 STANDARD SOLVENT	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER	OTHER
ST-EX-3	4/10/89		SOIL ≈ 20'D.	✓			X		X						
ST-EX-4	4/10/89		SOIL	✓			X		X						
			RUSH!												
			PLEASE GIVE VERBAL RESULTS												
			BY 4-11-89												
			ALSO: PLEASE SUPPLY												
			CHROMATOGRAMS FOR EACH.												

TOTAL NUMBER OF CONTAINERS: 2

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature) Jack Kosztowny	DATE/TIME 4-10-89 1445	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
			Brian Gilbert TERRA TECH	4/10/89 1445

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

RECEIVED
APR 17 89
AMAN ENVIRONMENTAL, INC.

8-Hour turnaround
1058-2

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
7030	SHELL H.B	Buan Hayes

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER	OTHER
TEX-7	4/12/89	1:15PM	SOIL SAMPLE @ 26' DEPTH	X			X		X						
			NOTE: STODDARD SOLVENT STD. FOR ANALYSIS												
			Call Dan Vossler with M8015 results (818) 967-4287												
			note: analysis M8015 now: store sample for 8020 analysis at a later date.												

TOTAL NUMBER OF CONTAINERS

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Buan Hayes	4/12/89 14:10				
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
			Gerard Hero	4-12-89 14:10

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
88-7030	SHELL H.B.	Brian Hayes

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER	OTHER
STEX 8	4/13	10:15 AM	SAMPLE @ 32 ft	X			X		X						

TOTAL NUMBER OF CONTAINERS

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Brian Hayes	4/13/89	L. Newcombe-Dieri			
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
			L. Newcombe-Dieri	4/13/89 1415

CHAIN OF CUSTODY RECORD

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS · ENGINEERS · SCIENTISTS

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
7030	SHELL H.B. UST	Brian Hayes

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015 STD/MD	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER	OTHER
PB1-5	6/27/89	10:15	BORING NO. 1 DEPTH 5 ft			X	X								
PB1-10	6/27 89	10:27	" 10 ft			X	X								
PB1-15	6/27 89	10:34	" 15 ft			X	X								
PB1-20	6/27 89	10:42	" 20 ft			X	X	*	*						
PB1-25	6/27 89	10:56	" 25 ft			X	X		*						
PB1-30	6/27 89	11:06	" 30 ft			X	X		*						
PB1-35	6/27 89	11:12	" 35 ft			X	X		*						
			Please run 8020 on any sample showing a detectable amount of TPH (8015).												

TOTAL NUMBER OF CONTAINERS

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Brian Hayes	6/27/89 11:25				
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
Mobile Lab On Site			Gerard Beckman	6/30/89 11:25

CHAIN OF CUSTODY RECORD

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS · ENGINEERS · SCIENTISTS

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
7030	SHELL H.B. UST	Brian Hayes

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015 Stoddard	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER
PB2-10	6/26/89	1:42	BORING NO. 2 AT 10 ft depth ∠30°			X	X		*					
PB2-20	6/26/89	2:10	" 20 ft ∠30°			X	X		*					
PB2-30	6/26/89	2:17	" 30 ft ∠30°			X	X		*					
PB2-40	6/26/89	2:32	" 40 " ∠30°			X	X		*					
~~PB2-45~~	~~6/26/89~~													
GS2-22	6/26/89	2:12	GRAB SAMPLE FROM APPROX 22 ft ∠30°	X		~~X~~	X		*					
			* Please run 8020 ON ANY SAMPLE SHOWING A											
			detectable amount of TPH (8015).											

TOTAL NUMBER OF CONTAINERS

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Brian Hayes	6/26/89 2:35				
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
Mobile Lab on Site			Gerard Beelman	6/26/89 14:52

CHAIN OF CUSTODY RECORD

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

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Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
7030	SHELL H.B. UST	Brian Hayes

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015 Stoddard	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER
PB3-5	6/27/89	8:35 A.M	BORING NO. 3 DEPTH 5ft			X	X							
PB3-10	"	8:48 A.M	" " 10ft			X	X							
PB3-15	"	9:01 A.M.	" 15ft			X	X							
PB3-20	"	9:15 A.M	" 20ft			X	X							
PB3-25	"	~~9:34~~ A.M.	9:25 " 25ft			X	X							
PB3-30	"	9:34 A.M.	" 30ft			X	X							
PB3-35	"	9:42 A.M.	" 35ft			X	X							
~~PB3-40~~	"													
~~PB3-45~~	"													
~~PB3-50~~	"													

TOTAL NUMBER OF CONTAINERS

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Brian Hayes	6/27/89 9:55 A.M.				
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
Mobile Lab on Site			Gerald Berkman	6/28/89 9:58

APPENDIX D

HAZARDOUS WASTE MANIFESTS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 — Manifest Document No. 00001

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452150

B. State Generator's ID GFHQ360221091

5. Transporter 1 Company Name — 6. US EPA ID Number
[illegible] Trucking — CAD982700749

C. State Transporter's ID 20256

D. Transporter's Phone 805-544-3481

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address — 10. US EPA ID Number
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249 — CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	01	AT	0118	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Jackie Reyes	Jackie Reyes	10	12	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
UNIT 700 T	[signature]	10	12	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
DHSFA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approv 1 OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981443807 Manifest Document No.: 09902

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452151

B. State Generator's ID: CFH03602203 1

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	03	DT	1	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Jackie Beyers	Jackie Beyers	04	12	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	04	12	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 OR WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 — Manifest Document No. 001003
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

A. State Manifest Document Number 88452152

4. Generator's Phone (714 969-3249

B. State Generator's ID CAH0160220031

5. Transporter 1 Company Name R.L. Bell — 6. US EPA ID Number CAD041141441 — C. State Transporter's ID 901432 — D. Transporter's Phone 805 925-1547

7. Transporter 2 Company Name — 8. US EPA ID Number — E. State Transporter's ID — F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
HTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125 — G. State Facility's ID — H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	0001	TI	0010	Y	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: Jackie Beyers — Signature: Jackie Beyers — Month Day Year: 10 9 89

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: R.L. Bell — Signature: Robert Kane — Month Day Year: 10 31 89
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL R... ONSE CENTER 1-800 424-8802; WITHIN CALIFORNIA CALL 1-800 852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9 88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 99999

2. Page 1 of 1 — Information in the shaded areas is not required by Fed. al law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452153

B. State Generator's ID CTH0360220

5. Transporter 1 Company Name JAMES R CROOKS

6. US EPA ID Number CAD981494915

C. State Transporter's ID 7072

D. Transporter's Phone 805 481-1206

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD982074815

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	02	DT	18	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: Jackie Beyers — Signature: Jackie Beyers — Month Day Year: 09 12 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JAMES R CROOKS — Signature: James R. Crooks — Month Day Year: 09 12 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

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State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 — Manifest Document No. 99995

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714) 969-3249

A. State Manifest Document Number 88452154

B. State Generator's ID CTH036022031

5. Transporter 1 Company Name: Hero Trucking — 6. US EPA ID Number: CAD982701914

C. State Transporter's ID 809072

D. Transporter's Phone (805) 544-3411

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number: CAD039748135

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	CT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed Typed Name: Jackie Bayers — Signature: Jackie Bayers — Month Day Year: 10 4 1 2 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Typed Name: Michael D Dolan — Signature: Michael D Dolan — Month Day Year: 10 4 1 2 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed Typed Name — Signature — Month Day Year

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 999906

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452155
B. State Generator's ID CTH036022031

5. Transporter 1 Company Name [illegible] 6. US EPA ID Number [illegible]
C. State Transporter's ID [illegible]
D. Transporter's Phone [illegible]

7. Transporter 2 Company Name 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number CAD020748125
G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	01	DT	18	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.
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GENERATOR

Printed/Typed Name: Jackie Beyers — Signature: Jackie Beyers — Month Day Year: 04 12 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] — Signature: Randall A Moore — Month Day Year: 04 12 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

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YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD981443807	00097		

GENERATOR

3. Generator's Name and Mailing Address
CHEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452156
B. State Generator's ID: CHW036022031

5. Transporter 1 Company Name: Heal Tite
6. US EPA ID Number: CAD 981430949
C. State Transporter's ID: 05705-5706
D. Transporter's Phone:

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone: 805-544-3441

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748129
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	02	DT	0018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Jackie Bayers	Jackie Bayers	04	12	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	04	12	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443801 Manifest Document No. 99999
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452157
B. State Generator's ID CTRQ3602203 1

5. Transporter 1 Company Name: A THERN
6. US EPA ID Number: CAD981139979
C. State Transporter's ID 005374-5400
D. Transporter's Phone (805) 324-3441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NIU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	0018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: Jackie Beyers
Signature: Jackie Beyers
Month Day Year: 04/12/89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: M. LOPEZ
Signature
Month Day Year: 04/12/89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL R... (800)424-8802; WITHIN CALIFORNIA CALL (800)-852-7550

HS 8022 A (1/88)
PA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD981446807	99999		

GENERATOR

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452158
B. State Generator's ID: CPHQ8600220011

5. Transporter 1 Company Name: Mesa Trucking Inc. | 6. US EPA ID Number: CAD9814[illegible]
C. State Transporter's ID: 005917-80914
D. Transporter's Phone: (805) 544-4441

7. Transporter 2 Company Name | 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD007686123
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	AT	00212	Y	State EPA/Other 611 CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. | b. | c. | d.

15. Special Handling Instructions and Additional Information

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Printed Typed Name	Signature	Month	Day	Year
Jake Boyer	Jake Boyer	10	4	88

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	10	12	88

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1 800 424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

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Department of Health Servic
Toxic Substances Control Divis
Sacramento, Califor

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD981443807	00432439		

3. Generator's Name and Mailing Address	A. State Manifest Document Number
SWEPI 20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648	88452159
4. Generator's Phone (714 969-9249	B. State Generator's ID
	CAR0360210001

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
[illegible]	[illegible]	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility's ID
CASMALIA RESOURCES NTU ROAD CASMALIA, CA 93249	CAD020748125	H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)					State 611 EPA/Other CAL. REG. ONL
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above	K. Handling Codes for Wastes Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT 430 JC ACCEPTANCE NUMBER 07928604CR	a. b. c. d.

15. Special Handling Instructions and Additional Information

16.

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Printed/Typed Name	Signature	Month	Day	Year
Jackie Boyers	Jackie Boyers	07	14	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL R ONSE CENTER 1-800-424-802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

DHS 8022 A (1/88)
EPA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443801 — Manifest Document No. 000911
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452160
B. State Generator's ID: GFH0360220311

5. Transporter 1 Company Name: Hebert Trucking — 6. US EPA ID Number: CAD983700545
C. State Transporter's ID: MC-307-023905
D. Transporter's Phone:

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD093074813
G. State Facility's ID:
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	010	DT	00018	K	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT
430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: Jackie Bowers — Signature: Jackie Bowers — Month/Day/Year: 10/17/89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Wayne Wallace — Signature: Wayne Wallace — Month/Day/Year: 10/17/89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month/Day/Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month/Day/Year

HS 8022 A (1/88)
PA 8700—22
Rev. 9-88) Previous editions are obsolete.

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443907 Manifest Document No. 99912

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452161

B. State Generator's ID GFH036022031

5. Transporter 1 Company Name [illegible] 6. US EPA ID Number CAD982294947

C. State Transporter's ID 005714-CC5116

D. Transporter's Phone 80[illegible] 5414141

7. Transporter 2 Company Name 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8469

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

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GENERATOR

Printed/Typed Name: Jackie Bayers — Signature: Jackie Bayers — Month Day Year: 04 12 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [illegible] — Month Day Year: 04 12 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

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DHS 8022 A (1/88)
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A D 9 8 1 4 4 3 6 0 | Manifest Document No. 190013

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452162

B. State Generator's ID CFH0360220381

5. Transporter 1 Company Name: Mesa Trucking Inc | 6. US EPA ID Number: CAD982171010

C. State Transporter's ID 005903

D. Transporter's Phone 805 54. 3411

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	10	DT	118	CY	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. | b. | c. | d.

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GENERATOR

Printed/Typed Name	Signature	Month Day Year
Jackie Bayers	Jackie Bayers	10 4 1289

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Mel Carlisle	Mel Carlisle	10 4 1289

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

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Printed/Typed Name	Signature	Month Day Year

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EPA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443800 Manifest Document No. 00914

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452163

B. State Generator's ID GFH0360220211

5. Transporter 1 Company Name HEARN TRUCKING

6. US EPA ID Number CAD982799947

C. State Transporter's ID 9926

D. Transporter's Phone 805 543 3411

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8469

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: J.K.R Beyers — Signature: Jackie Beyers — Month Day Year: 04 26 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KANDY S. LIMON — Signature: Kandy S Limon — Month Day Year: 04 27 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name — Signature — Month Day Year

IN CASE OF AN EMERGENCY OR SPILL CALL CHEMTREC'S NATIONAL 24-HR EMERGENCY NUMBER WITHIN CALIFORNIA (800-424-9300) OR CHEMICAL TRANSPORTATION EMERGENCY CENTER (800-262-8200) OUTSIDE CALIFORNIA

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD981443800	100115		

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452164
B. State Generator's ID CHH0360722031

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	D. Transporter's Phone
HEARN TRUCKING	CAD062700949	909291	805-544-3441

7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00011	CY	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name	Signature	Month	Day	Year
Jackie Boyers	Jackie Boyers	04	12	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MARK D. WALLEN	Mark D Wallen	04	12	54

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Typed Name	Signature	Month	Day	Year

19 Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR
TRANSPORTER
FACILITY

IN CA, IN AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 99916

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452165

B. State Generator's ID GEH936022031

5. Transporter 1 Company Name: HEARN TRUCKING INC.

6. US EPA ID Number: CAD082701949

C. State Transporter's ID 009289

D. Transporter's Phone 805-544-3441

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number: CAD982074825

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.

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GENERATOR

Printed/Typed Name: WILLARD M. MORSE — Signature: WM Morse — Month/Day/Year: 9/13/89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MATT ZOOST — Signature: Matt Zoost — Month/Day/Year: 09/14/89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month/Day/Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month/Day/Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

Do Not Write Below This Line

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443897 Manifest Document No. 019917

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452166

B. State Generator's ID CEH03602203 1

5. Transporter 1 Company Name HEARN TRUCKING

6. US EPA ID Number CAD982700949

C. State Transporter's ID 005901-902

D. Transporter's Phone 805-544-3441

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	00918	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.

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Printed/Typed Name: WILLARD M. MORSE | Signature: WM Morse | Month Day Year: 04 13 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ~~WILLARD M MORSE~~ | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: MICK MOORE | Signature: Mick Moore | Month Day Year: 04 14 89

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITH [illegible]

To: P.O. Box 400 Sacramento CA 95812-[illegible]

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981443807 — Manifest Document No.: 00018
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452167
B. State Generator's ID: GFHQ360220311

5. Transporter 1 Company Name: HEARN TRUCKING
6. US EPA ID Number: CAD082709949
C. State Transporter's ID: 909293
D. Transporter's Phone: 805 922 0777

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	0918	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: WILLARD M MORSE
Signature: WM Morse
Month Day Year: 04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RANDY S. LIMON
Signature: Randy S Limon
Month Day Year: 04 18 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL R...NSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88452167

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

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GENERATOR SENDS THIS COPY TO DOHS ACTIVITY
To: P.O. Box 400, Sacramento, CA 95812-0400

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981443807 — Manifest Document No.: 010119
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452168
B. State Generator's ID: GFHQ360220311

5. Transporter 1 Company Name: Dean Trucking — 6. US EPA ID Number: CAD042200949
C. State Transporter's ID: 900702
D. Transporter's Phone: (805) 544-3441

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10 US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. CASOLINE)	001	DT	0018	T	State: 611 EPA/Other: CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: WILLARD M MORSE — Signature: WM Morse — Month Day Year: 04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael D Dean — Signature: Michael D Dean — Month Day Year: 04 14 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

0847100

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete

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To: P.O. Box 400 Sacramento, CA 95812-0400

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD984443897 Manifest Document No. 0010210

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452169

B. State Generator's ID GFH0360220031

5. Transporter 1 Company Name Hearn Trucking Inc

6. US EPA ID Number CAD082709949

C. State Transporter's ID 005903

D. Transporter's Phone 8055443441

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name	Signature	Month	Day	Year
WILLARD M MORSE	Will Morse	04	13	89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Mel Cockett	Mel Cockett	04	14	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL R... CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88452169

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9 88) Previous editions are obsolete

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To: P.O. Box 400 Sacramento, CA 95812-0400

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 000121

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452170

B. State Generator's ID GEH036022031

5. Transporter 1 Company Name HEARN Trucking
6. US EPA ID Number CAD082700949
C. State Transporter's ID 005907-005908
D. Transporter's Phone 805-544-3441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number CAD020748425
G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	000118	YD	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: WILLARD M MORSE
Signature: WM Morse
Month Day Year: 04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: WAYNE WALLACE
Signature: Wayne Wallace
Month Day Year: 04 13 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 | Manifest Document No.: 000212

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 83452171
B. State Generator's ID: G F H Q 3 6 0 2 2 0 3 1
C. State Transporter's ID: 90924
D. Transporter's Phone: 805 544 3441

5. Transporter 1 Company Name: HEARN TRUCKING
6. US EPA ID Number: CAD082700849
7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00018	Y	State: 611 EPA/Other: CAL.REG.ONLY
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
WILLARD M. MORSE	WM Morse	04	13	89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MARK D. WALKER	Mark D. Walker	04	14	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

0545211

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EPA 8700—22
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Form Approved OMB No. 2050—0039 (Expires 9-30-91)
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 0100123

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452172
B. State Generator's ID GFHQ360220331

5. Transporter 1 Company Name: HEARN TRUCKING INC
6. US EPA ID Number: CAD982790949
C. State Transporter's ID: 00591 - 00592
D. Transporter's Phone: 805 544 3441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name	Signature	Month Day Year
WILLARD M MORSE	WM Morse	04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
John Farnsworth	John Farnsworth	04 14 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL SPONSE CENTER 1-800-424 8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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EPA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 | Manifest Document No.: 010024
2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452173
B. State Generator's ID: G F H Q 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name: Beck / Hearn
6. US EPA ID Number: C A A 9 8 1 4 3 9 7 3 9
C. State Transporter's ID: 005899-5900
D. Transporter's Phone: (805) 541-3441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	118		State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR — Printed/Typed Name: WILLARD M MORSE | Signature: W M Morse | Month Day Year: 09 11 3189

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Lopez | Signature: Mike Lopez | Month Day Year: 09 11 89
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Month Day Year

DC C-J

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 0101215
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452174
B. State Generator's ID GFHQ360220311

5. Transporter 1 Company Name: Hearn Trucking
6. US EPA ID Number: CAD082700949
C. State Transporter's ID 00590500590G
D. Transporter's Phone 8055443441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	0012	DT	00118	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name	Signature	Month Day Year
WILLARD M MORSE	W M Morse	04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
JO Williams	JO Williams	04 14 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No.: 000216
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452175
B. State Generator's ID: G F H Q 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name: Hearn Trucking
6. US EPA ID Number: C A D 0 8 2 2 0 9 9 4 9
C. State Transporter's ID: 005913-005914
D. Transporter's Phone: (805) 544-3441

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	00018		State: 611 EPA/Other: CAL.REG.ONLY
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: WILLARD M MORSE — Signature: WM Morse — Month Day Year: 04 13 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Carl Rea — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No.: aaaa27
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452176
B. State Generator's ID: G F H 0 3 6 0 2 2 0 3 1
C. State Transporter's ID: 005909-10
D. Transporter's Phone: (805) 544-3441
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 805-937-8449

5. Transporter 1 Company Name: Heavy Trucking
6. US EPA ID Number: C A D 0 1 8 2 7 0 1 0 9 4 9
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	002	DT	0018	YD	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: WILLARD M MARSE — Signature: Will Morse — Month/Day/Year: 10 4 1989

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ronald L McTigue — Signature: Ronald L McTigue — Month/Day/Year: 10 4 1989

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month/Day/Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month/Day/Year:

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No.: 010918
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452177
B. State Generator's ID: G F H Q 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name: DFS TRUCKING
6. US EPA ID Number: C A D 9 8 2 3 1 9 4 2 8
C. State Transporter's ID: 709518
D. Transporter's Phone: 805 648 3415

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00018	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
WILLARD M MORSE	WM Morse	04	13	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
KANDALL A MOORE	Kandall A Moore	04	13	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

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EPA 8700—22
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Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No. 00219

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452178
B. State Generator's ID G F H 0 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name: J cal tran inc. — 6. US EPA ID Number: C A 0 9 8 0 8 1 4 8 8 3
C. State Transporter's ID 911432
D. Transporter's Phone 459207709

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5

G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00018	Y	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
WILLARD M MORSE	WM Morse	10	13	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Richard Bonacci	Richard Bonacci	10	13	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONA... RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 000310

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648

4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452179

B. State Generator's ID GEH0360220231

5. Transporter 1 Company Name: J-CAL TRANS INC

6. US EPA ID Number: CAD981081483

C. State Transporter's ID 206-564

D. Transporter's Phone (213)920-7209

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number: CAD022074813

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	0101	DT	01010	Y	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information

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GENERATOR

Printed/Typed Name: WILLARD M MORSE
Signature: WM Morse
Month Day Year: 04 13 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVE DOWNING
Signature: Steve Downing
Month Day Year: 04 14 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

DHS 8022 A (1/88)
EPA 8700—22
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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD984443807 — Manifest Document No.: 010031
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714) 969-3249

A. State Manifest Document Number: 88452180
B. State Generator's ID: GRHQ3602203 1

5. Transporter 1 Company Name: J-CAL TRANSPORT — 6. US EPA ID Number: CAD981444883
C. State Transporter's ID: 905293
D. Transporter's Phone: 213-922-2205

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD029748125
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	0118	YD	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. — b.
c. — d.

15. Special Handling Instructions and Additional Information

16.
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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
WILLARD M MORSE	W M Morse	10	4	89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Rick Cleary		10	4	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

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Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443897 Manifest Document No. 000312

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452181

B. State Generator's ID GRH0360220231

5. Transporter 1 Company Name J-CAL TRANSPORTATION 6. US EPA ID Number CAD980814863

C. State Transporter's ID 905792

D. Transporter's Phone (213) 920-7709

7. Transporter 2 Company Name 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number CAD020748125

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	ET	00018	YD	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information

16.
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Printed/Typed Name	Signature	Month	Day	Year
WILLARD M. MORSE		10	11	89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL WAUGH		10	11	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981443807 Manifest Document No. 0100133

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452182
B. State Generator's ID GFH0360220311

5. Transporter 1 Company Name: G-T EQUIPMENT — 6. US EPA ID Number: CAD064984917
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125
G. State Facility's ID
H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00011	Y	State 611 / EPA/Other CAL.REG.ONLY
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: WILLARD M MORSE — Signature: W M Morse — Month Day Year: 10 4 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Richardson — Signature: Mark Richardson — Month Day Year: 10 4 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No.: 10100314
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number: 88452183
B. State Generator's ID: G F H 9 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name: GT EQUIPMENT
6. US EPA ID Number: C A D 0 8 4 6 9 8 4 9 7
C. State Transporter's ID: 009503
D. Transporter's Phone: 818 241-5792

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: C A D 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00118	YD	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
GLOVES, GOGGLES, TARP

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
WILLARD M MORSE	WM Morse	10	11	389

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Greg ST. Amant	Greg St Amant	10	11	3189

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

y Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

d Name	Signature	Month	Day	Year

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GENERATOR

TRANSP

N EMERGENCY OR SPILL, CALL THE NATIONAL SPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981441380 — Manifest Document No.: 010315

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714) 969-3249

A. State Manifest Document Number: 88452184

B. State Generator's ID: CFH036022031

5. Transporter 1 Company Name: J-CAL TRANS — 6. US EPA ID Number: CAD980814883

C. State Transporter's ID: 905789

D. Transporter's Phone: 213-926-7709

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249
10. US EPA ID Number: CAD020748125

G. State Facility's ID

H. Facility's Phone: 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	00011	Y	State 611 EPA/Other CAL. REG. ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. — b. — c. — d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: WILLARD M MORSE — Signature: WM Morse — Month Day Year: 10 4 1989

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LESLIE HILTON — Signature — Month Day Year: 10 4 1989

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A D 9 8 1 4 4 3 8 0 7 — Manifest Document No. aaa316

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SWEPI
20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648
4. Generator's Phone (714 969-3249

A. State Manifest Document Number 88452185

B. State Generator's ID G F H 0 3 6 0 2 2 0 3 1

5. Transporter 1 Company Name CAL

6. US EPA ID Number C A D 9 8 0 8 1 4 8 8 3

C. State Transporter's ID 90 5788

D. Transporter's Phone 213 9209709

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
NTU ROAD
CASMALIA, CA 93249

10. US EPA ID Number C A D 0 2 0 7 4 8 1 2 5

G. State Facility's ID

H. Facility's Phone 805-937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY SOIL CONTAMINATED WITH REFINED PRODUCT (i.e. GASOLINE)	001	DT	aaa11	E/H	State 611 EPA/Other CAL.REG.ONLY
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
GLOVES, GOGGLES AND ANY OTHER APPROVED SAFETY EQUIPMENT

430 JC ACCEPTANCE NUMBER 07928604CR

K. Handling Codes for Wastes Listed Above
a. b.
c. d.

15. Special Handling Instructions and Additional Information

16.

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GENERATOR

Printed/Typed Name: WILLARD M MORSE — Signature: WM Morse — Month 04 Day 14 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Rob Gagnon — Signature: [signature] — Month 04 Day 14 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

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Printed/Typed Name — Signature — Month Day Year

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RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7

APPENDIX E

BORING LOGS
AND
KEY TO BORING LOGS

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REMEDIATION CONTRACTORS . ENGINEERS . SCIENTISTS
100 S. Citrus Ave., Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

START/COMPLETION DATE: 6-27-89		ELEVATION DATUM: N/A	Page 1 of 1
BORING DEPTH (ft): 36 FEET		WELL DEPTH (ft):	
WATER DEPTH (ft):	INITIAL: 35 FEET	COMPLETION:	24 HRS:
DRILLING EQUIPMENT: MOBILE B-53 — 3.25-INCH CONTINUOUS-FLIGHT HOLLOW-STEM AUGERS		LOGGED/CHECKED BY: B. HAYES/J. KOSZTOWNY	
DRILLING COMPANY/DRILLER: GREGG DRILLING & TESTING		WELL SCREEN DEPTH (ft) BY:	
BACKFILL MATERIALS/SEAL: BENTONITE/ASPHALT CAP	NO. & TYPE OF SAMPLE:	UNDISTURBED: 7	MOD. CA: 2.0-INCH / DISTURBED

Time	Depth (ft)	Description/Comments	USCS	Graphic	Well	Blows/Ft.	Sample Number	Sample Type	OVM (ppm)	Analytical Data: Laboratory B	T	X	E	TPH
	0	SURFACE MATERIAL: ASPHALT PAVEMENT			ASPHALT									
10:15	5	MEDIUM DENSE SILT WITH TRACE SAND				13	PB1-5		<1					ND <10
10:27	10	COLOR CHANGES TO DARK BROWN AND DENSITY INCREASES TO DENSE AT 10 FEET	ML			33	PB1-10		<1					ND <10
10:34	15	MEDIUM DENSE TO DENSE, BROWNISH GRAY SILT				28	PB1-15		<1					ND <10
10:42	20	DENSE, BROWNISH GRAY SAND	SP		BENTONITE	32	PB1-20		6					ND <10
10:56	25	DENSE TO VERY DENSE, GREENISH BROWN SILT WITH TRACE CLAY	ML			52	PB1-25		20	0.3	0.7	0.9	0.3	10
11:06	30	DENSE TO VERY DENSE, LIGHT BROWN SAND				57	PB1-30		2					ND <10
		COLOR CHANGES TO LIGHT GRAY AND TRACE SILT AT 35 FEET	SP											
11:12	35	▼ GROUND WATER ENCOUNTERED AT 35 FEET ON 6-27-89				41	PB1-35		3	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <10
		TOTAL DEPTH 36 FEET												

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
SWEPI HUNTINGTON BEACH UNIT	88-7030	PB-1	

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START/COMPLETION DATE: 6-26-89		ELEVATION DATUM: N/A	Page 1 of 1
BORING DEPTH (ft): 40 FEET (SLANT)	APPROX 35 FEET VERTICAL	WELL DEPTH (ft):	
WATER DEPTH (ft):	INITIAL (APPROX): 34 FEET	COMPLETION:	24 HRS
DRILLING EQUIPMENT: MOBILE B-53	3.25-INCH CONTINUOUS-FLIGHT HOLLOW-STEM AUGERS	LOGGED/CHECKED BY: B. HAYES/J. KOSZTOWNY	
DRILLING COMPANY/DRILLER: GREGG DRILLING & TESTING		WELL SCREEN DEPTH (ft) BY:	
BACKFILL MATERIALS/SEAL: BENTONITE/ASPHALT CAP	NO. & TYPE OF SAMPLE:	UNDISTURBED: 4	MOD. CA: 2.0-INCH / DISTURBED: 1

Time	Boring Depth (ft)	Approx Vertical Depth (ft)	Description/Comments	USCS	Graphic	Well	Blows/Ft.	Sample Number	Sample Type	OVM (ppm)	Analytical Data: Laboratory B	T	X	E	TPH
	0		SURFACE MATERIAL: ASPHALT PAVEMENT			ASPHALT									
10:27	10	8.7	DARK SILT	ML				PB2-10		<1					ND <10
10:42	20	17.3	LIGHT ORANGE-BROWN SAND, FAINT HYDROCARBON ODOR DETECTED. GRAB SAMPLE OF CUTTINGS TAKEN AT 22 FEET	SP		BENTONITE		PB2-20		10					ND <10
								GS2-22		500	ND <0.1	0.2	6.6	ND <0.1	180
11:06	30	26.0	BROWN CLAY	CL				PB2-30		<1					ND <10
11:12	40	34.6	DARK GRAY SAND, WET ▼ GROUND WATER ENCOUNTERED AT APPROX. 34 FEET (VERTICAL) ON 6-27-89 TOTAL DEPTH 40 FEET (ANGLED) APPROXIMATE VERTICAL DEPTH, 35 FEET	SP				PB2-40		<1					ND <10

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
SWEPI HUNTINGTON BEACH UNIT	88-7030	PB-2	

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START/COMPLETION DATE: 6-27-89	ELEVATION DATUM: N/A	Page 1 of 1	
BORING DEPTH (ft): 36 FEET	WELL DEPTH (ft):		
WATER DEPTH (ft): INITIAL: 35 FEET	COMPLETION:	24 HRS	
DRILLING EQUIPMENT: MOBILE B-53 — 3.25-INCH CONTINUOUS-FLIGHT HOLLOW-STEM AUGERS	LOGGED/CHECKED BY: B. HAYES/J. KOSZTOWNY		
DRILLING COMPANY/DRILLER: GREGG DRILLING & TESTING	WELL SCREEN DEPTH (ft) BY:		
BACKFILL MATERIALS/SEAL: BENTONITE/ASPHALT CAP	NO. & TYPE OF SAMPLE: UNDISTURBED 7	MOD. CA 2.0-INCH	DISTURBED

Time	Depth (ft)	Description/Comments	USCS	Graphic	Well	Blows/Ft.	Sample Number	Sample Type	OVM (ppm)	Analytical Data: Laboratory B	T	X	E	TPH
	0	SURFACE MATERIAL: ASPHALT PAVEMENT			ASPHALT									
8:35	5	MEDIUM DENSE, DARK SILT				11	PB3-5		5					ND <1Q
8:48	10		ML			15	PB3-10		5					ND <10
9:01	15	DENSITY INCREASES TO DENSE AT 15 FEET			BENTONITE	45	PB3-15		7					ND <10
9:15	20	DENSE, LIGHT BROWN SAND				40	PB3-20		15					ND <10
9:25	25		SP			43	PB3-25		60					ND <10
9:34	30	DENSE, BROWN SILT				41	PB3-30		5					ND <10
9:42	35	▼ GROUND WATER ENCOUNTERED AT 35 FEET ON 6-27-89	ML			51	PB3-35		7	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <10
		TOTAL DEPTH 36 FEET												

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
SWEPI HUNTINGTON BEACH UNIT	88-7030	PB-3	

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS					TYPICAL NAMES
COARSE GRAINED SOILS MORE THAN HALF IS LARGER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	SIZE CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		Well graded gravels, gravel-sand mixtures
			GP		Poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	GM		Silty gravels, poorly graded gravel-sand-silt mixtures
			GC		Clayey gravels, poorly graded gravel-sand-clay mixtures
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		Well graded sands, gravelly sands
			SP		Poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	SM		Silty sands, poorly graded sand-silt mixtures
			SC		Clayey sands, poorly graded sand-clay mixtures
FINE-GRAINED SOILS MORE THAN HALF IS SMALLER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		Organic clays and organic silty clays of low plasticity
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils elastic silts
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			PI		Peat and other highly organic soils

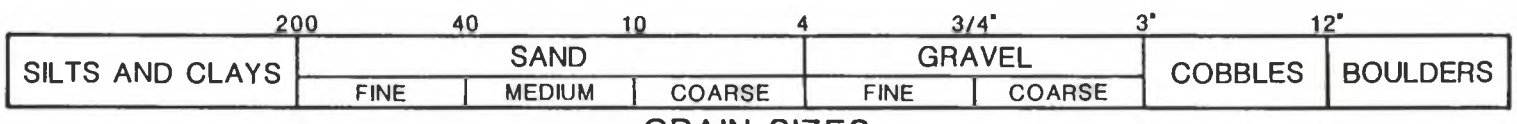
■ "Undisturbed" Sample

⊠ Bulk or Classification Sample

PID - Photolonization Detector Reading (10.2 electron-volt lamp, calibrated against a benzene standard)

HC Odor - Hydrocarbon Odor

No - No Odor
Lo - Slight Odor
Md - Moderate Odor
Sg - Strong Odor



GRAIN SIZES

SANDS, GRAVELS & NON-PLASTIC SILTS	BLOWS/FOOT*
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM LOOSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

RELATIVE DENSITY

CLAYS AND PLASTIC SILTS	STRENGTH**	BLOWS/FOOT*
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 15
VERY STIFF	2 - 4	15 - 32
HARD	OVER 4	OVER 32

CONSISTENCY

*Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D - 1586)

**Unconfined compressive strength in tons/sq. ft. as determined by laboratory testing or approximated by the standarded penetration test (ASTM D - 1586) pocket penetrometer, torvane, or visual observation.

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KEY TO BORING LOGS

Plate 1

PREPARED FOR: SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
P.O. BOX 11164
5060 CALIFORNIA AVENUE
BAKERSFIELD, CALIFORNIA 93389-1139

PHASE I, SITE ASSESSMENT REPORT
GASOLINE AND STODDARD SOLVENT TANK EXCAVATION
HUNTINGTON BEACH PRODUCTION UNIT
SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA

JUNE 22, 1990

PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
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GROUNDWATER TECHNOLOGY, INC.

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INTRODUCTION

Shell Western Exploration and Production, Inc. (SWEPI) retained Groundwater Technology, Inc. November 9, 1989, to install three groundwater wells around the perimeter of an existing excavation. Gasoline/stoddard solvent storage tanks had been removed from within the area defined by the excavated sidewalls. At a later date, two additional groundwater wells, and a soil vent well with a separate boring containing dual vapor pressure probes were installed. Groundwater Technology collected soil and groundwater samples, determined groundwater gradient, evaluated the laboratory data, conducted a soil vapor extraction test, and prepared a site assessment report.

Prior to the current work phase, soils were excavated directly beneath the pre-existing stoddard solvent and gasoline storage tanks and sampled. A previous consultant also clustered several soil borings near the east corner of the tank pit and collected soil samples to groundwater. Groundwater Technology was contracted by SWEPI to further define the existence of adsorbed-phase hydrocarbons within the soil column, determine groundwater gradient, and presence of dissolved-phase hydrocarbons in groundwater.

Two of the five groundwater wells were placed as close to the existing tank excavation as safety would allow. One other well was located near a pump island currently in operation. The pump island was perceived as a possible source of elevated hydrocarbon concentrations in the soil column. The fourth well was placed north of the tank excavation as a downgradient well after survey of the first three wells showed groundwater flow towards that

region. After the tank pit was backfilled by SWEPI in early 1990, a fifth well was positioned upgradient from the former tank pit, beneath the maintenance building's floor.

BACKGROUND

The site under investigation is located on the western edge of the Huntington Beach Mesa. The site contains an excavated tank pit and outlying buildings, located approximately 1/2 mile northeast of the intersection of Goldenwest Street and Pacific Coast Highway (See Figure 1). A previous consultant had removed separate stoddard solvent and gasoline underground storage tanks. During the tank removal phase, a petroleum/solvent odor was noted beneath the tanks. Subsequent laboratory tests indicated adsorbed-phase hydrocarbons in the soil. Additional borings/laboratory tests indicated adsorbed levels beyond the limits of the excavation sidewalls. The excavation was left open after this preliminary assessment was completed. Groundwater Technology was retained by SWEPI (Nov. 9, 1989) to further define the extent of hydrocarbon levels in the soil column, determine groundwater gradient, and conduct a soil vent test to determine the design criteria for hydrocarbon extraction using vapor extraction methods.

HYDROGEOLOGY

Sediments in the Huntington Beach Mesa have been above sea level since the late Pleistocene in response to uplifting imposed by the Newport-Inglewood Zone of Deformation. The south branch of the Newport-Inglewood Fault crosses near the site, approximately a half mile to the northeast. The Huntington Beach Mesa is approximately

2.5 miles wide and extends inland from the shoreline nearly 4 miles. Upper Pleistocene alluvial/terrace deposits underlie the site. Underlying the terrace deposits are the marine/continental gravel-sands of the Lakewood Formation, which extend to a depth of approximately 350 feet. The Lakewood Formation is composed of interbedded clay, silt, sand, and gravel (California Department of Water Resources, 1967). The soil types exposed by Groundwater Technology borings indicate sediment characteristics similar to those described in the Water Resources Report, from grade to 55 feet below grade. Marine shell fragments, in soils from 40 to 55 feet below grade, indicate the previous existence of a shore/nearshore marine depositional environment. The possibility exists that these sediments may be part of the Lakewood Formation. Alternating beds of sand/clay/silt from grade to 30 feet below grade, show a general decrease in fines (including clay beds).

Groundwater Technology's borings indicate that the dominant soil types below the capillary fringe (30 feet) are well sorted to poorly sorted sands (contained within the saturated zone). There is a lack of a dominant soil type from grade to approximately 30 feet in depth, due to the complex interbedded nature of the soil column.

Unconfined groundwater was encountered from approximately 32 to 33 feet below grade in the investigated area. A survey of wells installed by Groundwater Technology showed that the water-bearing zone has a predominantly north to northwest gradient of 0.06% across the tank excavation perimeter (see Surveying and Groundwater Gradient section of this report).

DRILLING INVESTIGATION

During the recently completed drilling phase of this investigation, five groundwater monitoring wells were installed to a depth of approximately 20 feet below first contact with groundwater. In addition, one boring, containing several probes for measuring soil vacuum during pilot testing, and a vadose zone well were installed near groundwater well GTW3 (Figure 2).

On November 10, 1989, well GTW1 was installed near the active pump island. On November 13, 1989, wells GTW2 and GTW3 were installed near the perimeter of the excavation with the intention of measuring the lateral extent of hydrocarbons away from the sidewalls.

GTV1, the soil probe monitoring boring, was installed December 7, 1989, and a soil vapor extraction pilot test was performed the same date. A vapor monitoring well, GTV2, was installed December 14, 1989. At this location, a continuous slotted well casing was installed within the soil column exhibiting elevated hydrocarbon odors and high photo-ionization detector (PID) readings. Groundwater monitoring well, GTW4, was installed the same day.

On May 23,1990, groundwater monitoring well GTW5 was installed within the confines of the maintenance building southeast of the old tank pit.

All five groundwater well borings were drilled to maximum depths of 50 to 55 feet while the vadose zone borings were extended down to 33 feet, to the static groundwater level

(Figure 3). The groundwater level depicted in cross-section A-A' was determined by: 1) Use of surveyed elevations for each well and 2) Gauged water level in each well several days after the water level had stabilized.

In the lithologic logs presented in Appendix A, sample labelling is as follows: a soil sample labeled GTW1-10 was obtained from the borehole of groundwater monitoring well #1, at a depth of 10 feet below grade. Generalized schematics for the four groundwater monitoring wells, one soil vent well, and one soil boring containing vapor probes are presented in Appendix B. Upon installation of each groundwater well casing, an inner locking cap was affixed to the casing and padlocked shut. A traffic box was installed around the top of each groundwater well, flush with the existing asphalt surface.

Soil samples were collected using a modified California Split Spoon Sampler with brass ring inserts, sealed with plastic caps, foil, and duct tape. Samples were identified and placed in a waterproof bag and then on ice for delivery to state-certified GTEL Environmental Laboratories (GTEL), Torrance, California. Between sampling runs, the equipment was washed with trisodium phosphate solution and rinsed successively with tap and distilled water. All laboratory results and the Chains-of-Custody for the soil sampling are presented in Appendix C.

Soils sampled during the drilling phase defined a near-surface soil horizon consisting of plastic clays, which increase in silt/sand percentage down to about 10 feet. At this depth, sands are the dominant lithology. Alternating clayey/sandy silt and silty sand beds were

encountered at depth in all borings. At location GTW3, from 20 to 25 feet, thin to medium bedded sands exhibited a distinct hydrocarbon odor. Soils encountered from 20 feet to groundwater (33 feet) in well boring GTW5 also displayed distinct hydrocarbon odors.

First water in the borings occurred at approximately 32 feet below grade. The water-bearing zone consists of well sorted to poorly sorted sands at depths ranging from 30 to 55 feet. Sands from 45 to 55 feet contain large quantities of marine shell fragments ("bioclastic" sands). Undisturbed soil samples were removed from each boring every 5 feet to the soil/water interface (GTV2 is an exception).

SOIL ANALYSES

Chemical Analyses

Thirty-two soil samples were sent to GTEL for either preservation or chemical analysis. Of these 32 samples, 13 were analyzed for TPH and BTEX following EPA methods 8015 and 8020. Table 1 lists analysis results for each sample. For a complete listing, please refer to Appendix C.

On November 10, 1989, six samples from GTW1 were analyzed for TPH and BTEX. The six samples were analyzed at a GTEL mobile laboratory at the site, during drilling operations. In the mobile laboratory, samples were analyzed for TPH as gasoline, and the samples indicated no stoddard solvent "peaks". A quality control laboratory check was run for stoddard solvent, confirming the reliability of the results.

One soil sample was obtained from each of the following borings and analyzed: GTW2, GTW3, GTW4, GTV1, and GTV2. Selection for analyses was based on higher (above background) field levels of volatile organic vapors. These soil samples were sent to GTEL and analyzed for TPH, stoddard solvent, and BTEX following EPA methods 8015/8020. Additional samples were obtained at 5-foot intervals from these borings and held at the laboratory for possible future analysis. On May 23,1990, two soil samples from boring GTW5 were analyzed for TPH (as gasoline) and BTEX following EPA methods 8015/8020.

Soils analyzed from boring locations GTW1, GTW2, and GTW4, showed non-detectable levels of TPH and BTEX for both gasoline and stoddard solvent. Soil borings at locations GTW3, GTV1, GTV2, and GTW5 had TPH (as gasoline) values of 140, 3,700, 5, and 70 ppm, respectively, at depths between 25 and 31 feet below grade. These values indicate existing elevated levels of adsorbed-phase hydrocarbons within the soil column directly adjacent to the east edge of the tank excavation. A soil sample collected December 7, 1989, during the installation of the soil vapor pressure test probes (GTV1), produced the highest level of TPH (3,700 ppm as gasoline). The sample location was within 10 feet of the tank excavation sidewall (Figure 3). A dashed line drawn on Figure 3 approximates the vertical extent of detectable vapor-phase hydrocarbons in the soil column.

TABLE 1

Summary of Laboratory Analyses of Undisturbed Soil Samples Obtained From The Shell Production Unit, Tank Pit Area Shell Western Exploration and Production, Inc. Huntington Beach, California

Sampled November 10 Through December 14, 1989 and May 23, 1990

Sample No.	TPH (Gasoline)	TPH (Stoddard Solvent)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW1-5	ND	ND	ND	ND	ND	ND
GTW1-10	ND	ND	ND	ND	ND	ND
GTW1-15	ND	ND	ND	ND	ND	ND
GTW1-20	ND	ND	ND	ND	ND	ND
GTW1-25	ND	ND	ND	ND	ND	ND
GTW1-30	ND	ND	ND	ND	ND	ND
GTW2-25	ND	ND	ND	ND	ND	ND
GTW3-25	140	ND	0.41	3.8	3.0	18
GTW4-31	ND	ND	ND	ND	ND	ND
GTW5-25	70		0.24	2.1	1.8	9.1
GTW5-30	ND		0.22	0.89	0.21	1.2
GTV1-31	3,700	ND	11	240	180	970
GTV2-31	5	ND	0.34	0.19	0.38	1.8

ND = Not detected
All values are in parts per million (ppm).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppm): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05.
Exception: GTW5 TPH (gasoline) = 10

Physical Analyses

In addition to chemical analyses, a dry sieve analysis was performed on two individual undisturbed soil samples collected during the boring of the groundwater monitor well GTW3. Table 2 summarizes these test results.

TABLE 2

**Summary of Sieve Analyses on Soil Samples
Obtained From Borings
in The Tank Excavation Area, Shell Production Unit
Shell Western Exploration and Production, Inc.
Huntington Beach, California**

November 30, 1989

Sample No.	Mean Size (mm)	Grain Size Description Wentworth Scale
GTW3-25	.262	Medium Sand
GTW3-40	.293	Medium Sand

The zone containing the highest levels of hydrocarbons occurs from 25 feet to just above groundwater at 31 feet in GTV1. The average grain size is a medium grained sand, correlating closely with the field classification of textures reported in the boring logs (i.e., alternating medium beds of unsorted silty/clay sands with well sorted sands). The capillary fringe and saturated zone soil textures appear to be similar in average soil grain size but contain less fines (such as silt). Appendix D contains the complete laboratory reports.

GROUNDWATER ANALYSES

Three groundwater samples (GTW1, GTW2, and GTW3) were collected November 17, 1989, after the three wells were installed and allowed to reach static equilibrium over several days. On December 19, 1989, GTW4 was sampled by Groundwater Technology personnel. On June 5, 1990, GTW5 was sampled. The sampling procedure was as follows: After three well volumes had been removed by a vacuum truck, the wells were allowed to recharge to 95 percent of their static level, and pH and turbidity were allowed to stabilize. Two samples from each well were retrieved using a teflon bailer washed with trisodium phosphate, and rinsed with tap and distilled water. New string was attached to the sampling bailer prior to each sampling run, and water was placed in 40 ml vials, sealed with airtight caps, labeled, and placed on ice. The samples were then transported to state-certified GTEL Laboratories, Torrance, California, for analysis of TPH and BTEX, following EPA Methods 8015/8020.

Four of the five groundwater samples exhibited measurable concentrations of TPH using either a gasoline or stoddard solvent standard. GTW2 had the only detectable level of stoddard solvent (8 parts per billion (ppb)). GTW4 (downgradient of GTW3) had a value of 21 ppb as gasoline while well GTW5 (upgradient of the tank pit) had the highest concentrations of total petroleum hydrocarbons at 80,000 ppb as gasoline. Well GTW3 had a concentration of 3,300 ppb. Two additional samples, labelled GTW4 (collected November 17, 1989) and GTW5 (collected December 19, 1989), were run as field blanks. Table 3 summarizes the analysis results for TPH and BTEX in all five wells. Complete laboratory results and the Chains-of-Custody are presented in Appendix E.

TABLE 3

**Summary of 602/8015 (BTEX/TPH) Analyses
on Groundwater Samples Obtained During Well Development
in The Shell Production Unit, Tank Excavation
Shell Western Exploration and Production, Inc.
Huntington Beach, California**

**Sampled October 17, December 19, 1989
and June 5, 1990**

Sample No.	TPH (Gasoline)	TPH (Stoddard)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW-1 (11/17/89)	ND	ND	ND	ND	ND	ND
GTW-2 (11/17/89)	ND	8	5.0	ND	ND	ND
GTW-3 (11/17/89)	3,300	ND	110	330	290	1,100
GTW-4 (12/19/89)	21	--	ND	ND	ND	ND
GTW-5 (6/5/90)	80,000	--	3,800	13,000	4,700	29,000

ND = Not detected
All values are in parts per billion (ppb).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppb): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.5; toluene 0.5; ethylbenzene 0.5; xylenes 0.5.
Exception: GTW5 TPH (gasoline) = 100

The soil lithologic cross-section (Figure 3) has shown a limited lateral extent of impacted groundwater parallel to the south sidewall of the tank excavation. The level of dissolved-phase TPH in GTW5 is not presented in the cross-section, as the cross-section does not include that well.

Surveying and Groundwater Gradient

In addition to the groundwater sampling phase of the workplan, groundwater wells GTW1, GTW2, and GTW3, soil vent well GTV2, and soil vent probe GTV1, were surveyed November 17, 1989 by BBSI, a professional surveying company. After installation, wells GTW4 and GTW5 were surveyed on June 5, 1990, by Groundwater Technology personnel.

Groundwater Technology personnel gauged all existing water wells prior to well development, to determine the static groundwater depth from grade. Appendix F lists ground elevations, measured depths to groundwater, and static groundwater elevations relative to sea level. Using calculated groundwater elevations, two groundwater gradient maps were constructed showing water table elevations above sea level (Figures 4 and 5). The groundwater contours are evenly spaced in the vicinity of the tank pit (Figure 4). Gradient elevations measured November 17, indicate a shallow gradient in a northerly direction in the area of the tank excavation. Gradient data, using GTW4 and GTW5 water elevations, indicate a slight shift in the gradient from north to northwest near GTW5. The groundwater gradient is approximately 0.06% across the tank excavation perimeter.

Since the site is within .25 mile of the shoreline, the possible fluctuation of groundwater levels under tidal influence was investigated. Water level data compiled over a 12-hour period was used to determine if any fluctuations were present. On May 23, 1990, groundwater well levels were observed during the installation of well GTW5.

No noticeable changes occurred over the 12-hour period. A summary of the well level test is included in Appendix F.

VAPOR EXTRACTION TEST

On December 7, 1989, a vapor extraction pilot test was performed on GTW3 by Groundwater Technology during the current assessment phase. The vent test results were used to evaluate the effects of vapor extraction in the surrounding soils above the soil/water interface. Testing consisted of applying a vacuum with a 1.5 hp Rotron regenerative blower (up to 22 inches of water) to extraction well GTW3. Magnahelic (vacuum) gauges were attached to soil vapor probes installed approximately 7.5 feet from the extraction well. The vapor probe boring was designed as a dual probe monitoring well having monitor points 20 feet and 25 feet below grade (See Appendix B, well schematic). Vacuum readings were recorded from start-up of the blower until the vacuum stabilized in the observation well/vapor probes at a maximum value (recorded as inches of water). Once a maximum value was reached, the blower was turned off and readings were recorded over time until the vacuum returned to zero (rebound), or to a minimum value within the observation well/vapor probes. Vacuum gauge readings up to stabilization are listed in Table 4. Vapors extracted from the ground were channeled into a 55-gallon activated carbon canister to prevent emission of hydrocarbons into the atmosphere.

During the pilot test, a soil gas sample was collected in a tedlar bag from vapor extraction well GTW3. The sample was obtained from a sampling point in the line between the blower and the carbon canister. The sample was delivered to state-certified GTEL

Environmental Laboratory for analyses of benzene, toluene, ethylbenzene, xylenes, and total petroleum hydrocarbons using both gasoline and Stoddard Solvent standards, following EPA Methods 8020/8015, respectively. Table 5 summarizes the laboratory results. Complete laboratory reports are presented in Appendix G.

TABLE 4

Summary of Monitor Point Position and Vent Test Data Collected During the Vapor Extraction Pilot Test at the Shell Production Unit, Tank Excavation Area Shell Western Exploration and Production, Inc. 20101 Golden West Street Huntington Beach, California

Performed on December 7, 1989

Extraction Well	Monitoring Point	Monitor Point Vapor Probe Screen Intervals	Distance from Extraction Well
GTW-3	GTV-1	18'11" - 20' 23'11" - 25'	7'6"

GTW-3 extraction well screened from 23.5 ft to 53.5 ft (static water level in well at 32 ft).

TABLE 4 (Continued)

Vent Test Data

Time	20 ft Probe (Inches of Water)	25 ft Probe (Inches of Water)	PID (ppm)
3:45	.9	1.0	>10,000
3:55	1.0	1.0	>10,000
4:00	1.1	2.0	>10,000
4:10	1.1	2.5	>10,000
4:20	1.2	2.5	>10,000

Photoionization detector (PID) used to measure vapors in parts per million (ppm).

Magnahelic gauges used to measure pressure (Scale: 1 to 10 inches of water).

Twenty inches of water measured at blower during testing.

TABLE 5

Summary of EPA 8015/602 Analyses on Soil Vapor Samples Collected During Soil Vent Pilot Test in the Huntington Beach Unit, Tank Excavation Area Shell Western Exploration and Production, Inc. 20101 Golden West Street Huntington Beach, California

Collected on December 7, 1989

Sample #	TPH as Gasoline	TPH as Stoddard	Benzene	Toluene	Xylene	Ethyl-benzene
GTW-3	5,200	6,300	190	410	560	150

All concentrations measured in parts per million, by volume (ppmv).

The laboratory results indicate concentrations of both gasoline and stoddard solvent in vapor phase within the soil column. In oral communications with GTEL personnel, it was learned that overlap of gasoline and stoddard solvent type curves occurred on the gas chromatograph printouts. Since stoddard solvent and gasoline standard curves match closely, the C_4 - C_{12} peaks are additive in nature and are difficult to separate into specific concentrations by volume. Therefore, there appears to be almost equal amounts of gasoline and stoddard solvent concentrations (5200 ppmv to 6300 ppmv, respectively) in vapor phase.

Figure 6 shows that the radii of influence for vent well GTW3, and subsequently GTV2, are approximately 18 feet based on the maximum observed vacuum, during pilot testing, of 1.2 inches of water at the 20-foot probe. An 18-foot radius of extraction can be maintained by using a Rotron 505 XP regenerative blower at a flow rate of 60 cubic feet per minute. See Effective Radius of Soil Vent System, A Mathematical Model in Appendix G, which summarizes the derivation of the radius of influence from field-generated data. Based on that model, extraction of vapors will cover the areas represented in Figure 6. The radius of influence is expected to increase (using the same vacuum) when the tank excavation is backfilled. This will effectively curtail any possible soil vapor channeling caused by the unequal pressure differences inherent in having a large void present in the soil column in close proximity to the extraction well.

Soils above groundwater also show vertical influence from vacuum. The upper soil vapor probe (at 20 feet below grade, in GTV1) registered nearly 50% of the vacuum at the lower probe (25 feet), approximately 4 feet above the highest point of the extraction well screen.

This shows that there is vertical influence or pull when vacuum is induced within the impacted soil zone.

CONCLUSION

Soils in the vadose (unsaturated) zone underlying the site consist of unsorted sand and gravel fill to a depth of two to four feet. Below this, soils consist of organic clay and silty clay to 12 feet. Alternating beds of silty sand, sandy silt, and unsorted to moderately sorted sand extend from 12 feet to groundwater level just below 30 feet. The capillary and saturated zones consist of well to poorly sorted, medium to coarse sand.

Based on data collected from groundwater monitoring wells GTW2, GTW3 and GTW5, the groundwater gradient is 0.06% in a northwesterly direction within the central and southern portion of the former tank excavation area. Data derived from monitoring wells GTW1 and GTW4 suggest a more northerly flow direction near the north end of the former tank pit.

Based on the results of the drilling investigation and subsequent soil analyses, concentrations of hydrocarbons exist within the soil column near the eastern sidewall of the former tank excavation. Adsorbed-phase concentrations appear to dissipate laterally towards the GTW5 location. The zone of vapor/adsorbed-phase hydrocarbon concentrations extends from approximately 20 feet below ground surface down to the soil/groundwater interface at 33 feet below grade. The adsorbed-phase hydrocarbons within the soil column appear to consist mainly of TPH as gasoline and BTEX with low to non-detectable levels of stoddard solvent. Groundwater analyses for TPH as gasoline and stoddard solvent, and for BTEX

indicate similar results. While soil hydrocarbon levels appear to be concentrated near GTV1 and GTW3, hydrocarbon concentrations in groundwater increase towards GTW5. GTW5 has the highest dissolved-phase gasoline hydrocarbon levels, with an analyzed value of 80,000 ppb.

The reported results for vapor-phase hydrocarbons in the form of gasoline or stoddard solvent indicate concentrations of 5,200 ppmv TPH as gasoline and 6,300 ppmv stoddard solvent. The soil types comprising the last 20 feet above groundwater, in the hydrocarbon impacted zone near GTW3, are dominated by medium-grained silty sands and sandy silt. Groundwater well GTW3, when used as a vapor extraction well, will develop a radius of influence of 15 to 18 feet depending on the size of the blower inducing vacuum at the well. The radius of influence is expected to have increased (using the same vacuum) since the tank excavation has been backfilled. This will effectively curtail any possible soil vapor channeling caused by the unequal pressure differences inherent in having a large void present in the soil column in close proximity to the extraction well. The vent test data also indicates that there is lateral and vertical influence of vacuum, across soil horizons, to shallower levels.

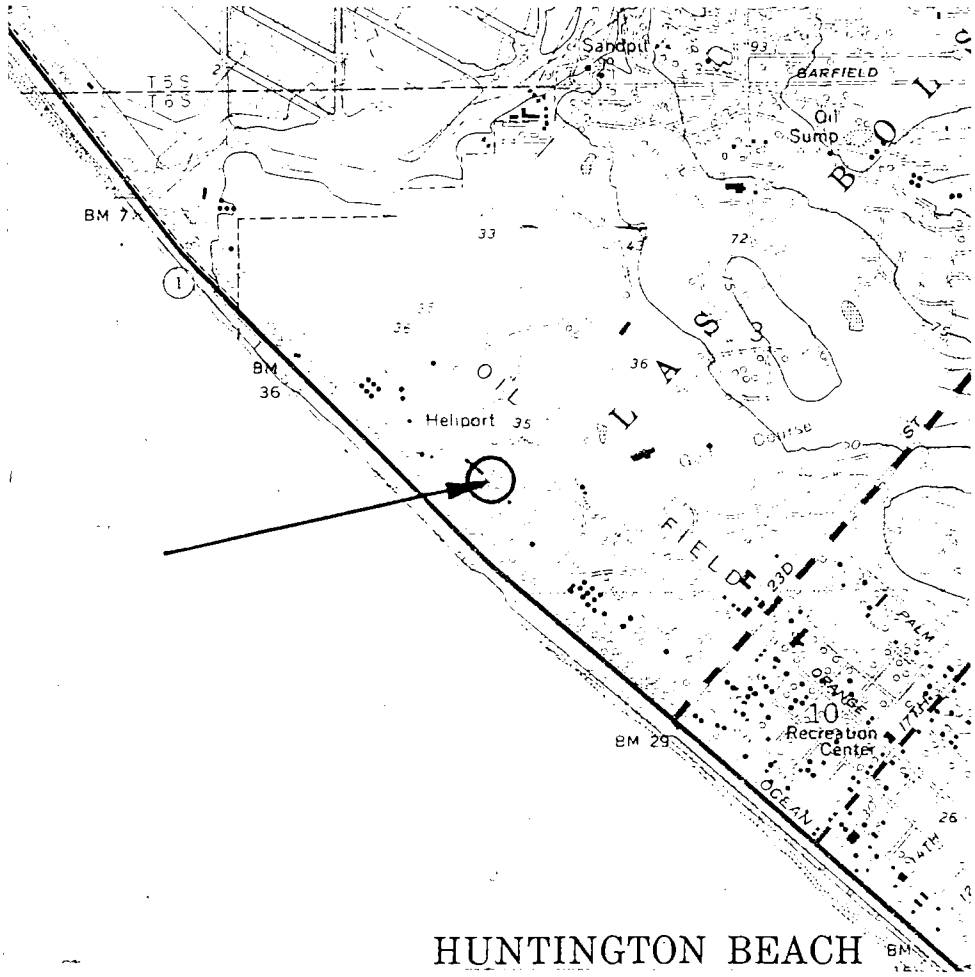
FIGURES

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California
Job No. 216-325-1801-00

N



Source: U.S.G.S. Seal Beach, Calif. 1965
Photorevised 1981

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

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GROUNDWATER
TECHNOLOGY, INC.

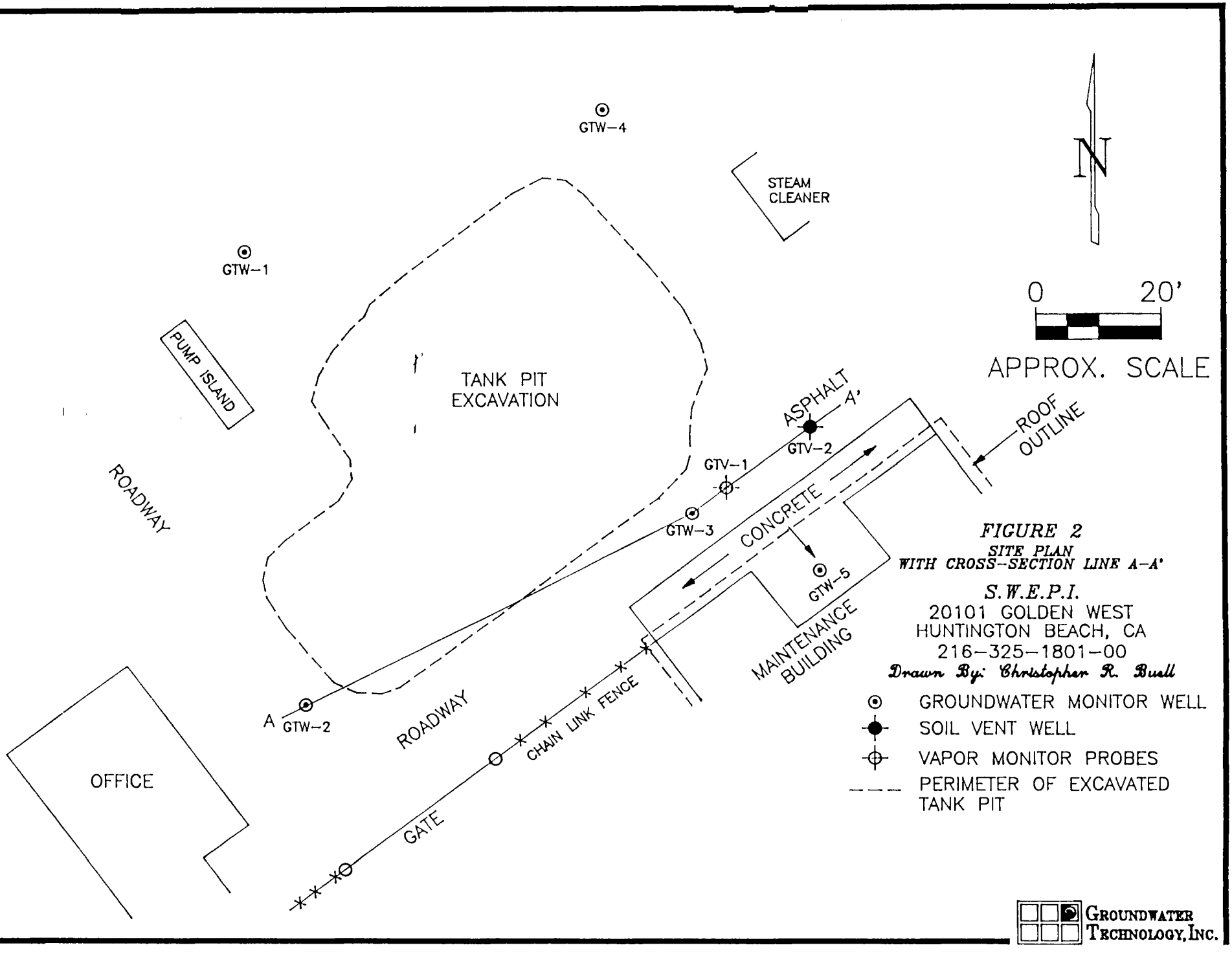
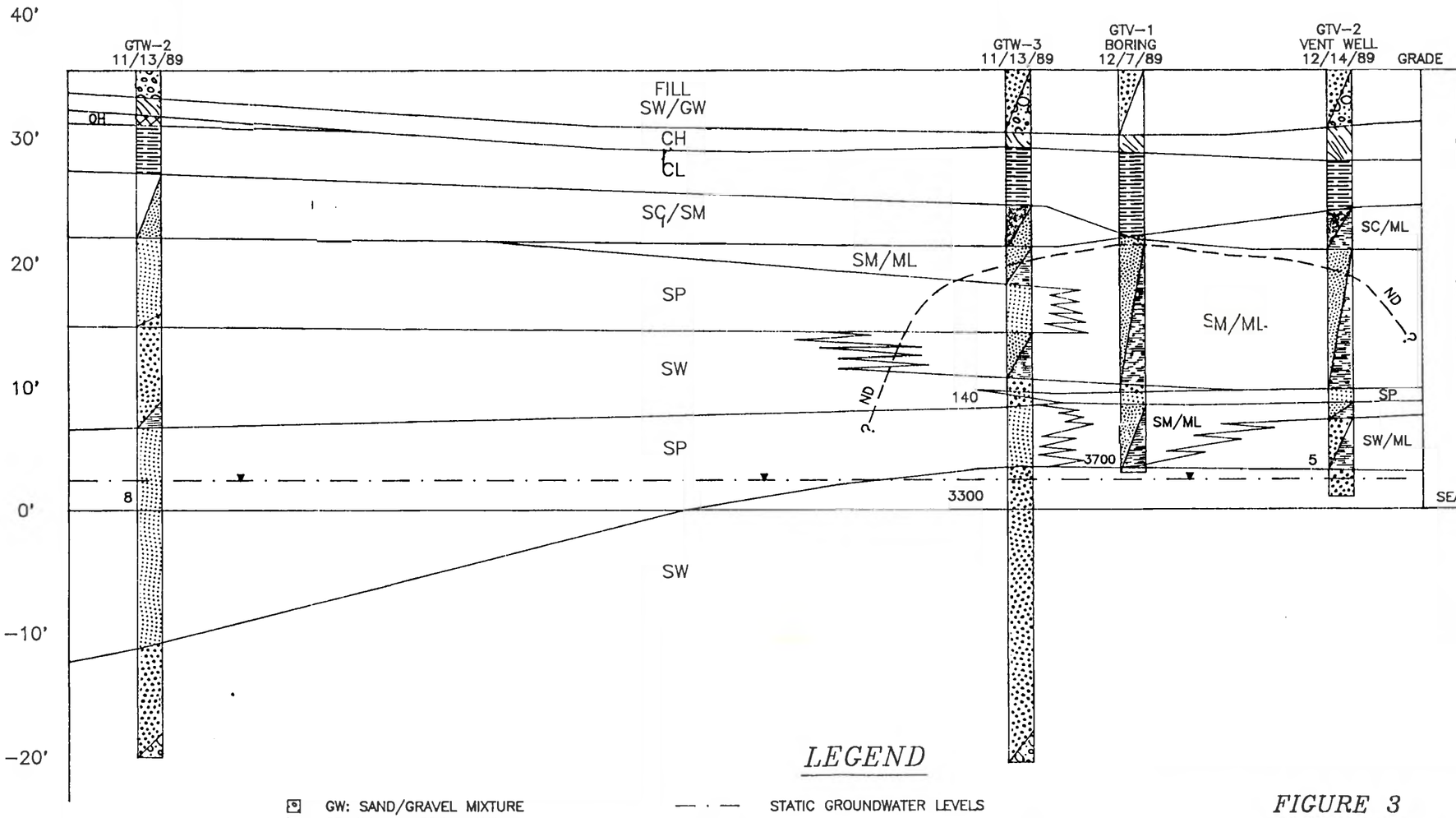


FIGURE 2
SITE PLAN
WITH CROSS-SECTION LINE A-A'

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801-00
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

SOIL LITHOLOGIC CROSS-SECTION A-A'



GENERALIZED LITHOLOGIC SUMMARY

UNSORTED SAND/GRAVEL FILL FROM GRADE TO OVER 4 FEET

ORGANIC CLAY/SILTY CLAY FROM 2 1/2 TO OVER 12 FEET

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT/UNSORTED TO MODERATELY SORTED SANDS FROM ● 10 TO OVER 30 FEET BELOW GRADE

WELL TO POORLY SORTED, MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 30 FEET TO 55 FEET

LEGEND

- GW: SAND/GRAVEL MIXTURE
- SP: WELL SORTED SAND
- SW: POORLY SORTED SAND
- SM: SILTY SAND
- SC: CLAYEY SAND
- ML: CLAYEY/SANDY SILT
- CL: SILTY CLAY
- CH: VERY PLASTIC CLAY
- OH: ORGANIC CLAY

— · — STATIC GROUNDWATER LEVELS

ND TRANSITION ZONE ABOVE WHICH THERE ARE NON DETECTABLE ODORS AND LOW (BACKGROUND) PID READINGS IN BOREHOLE SOIL SAMPLES.

3700 : TPH FOR GASOLINE IN SOIL, CONCENTRATION MEASURED IN PARTS PER MILLION (PPM)

3300 : TPH FOR GASOLINE IN GROUNDWATER, CONCENTRATION MEASURED IN PARTS PER BILLION (PPB)

FIGURE 3
S.W.E.P.I.

20101 GOLDEN WEST
HUNTINGTON BEACH, CA.
216--325-1801-00
SCALE:1"=10'-0"

Geology By: Doug Ford
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

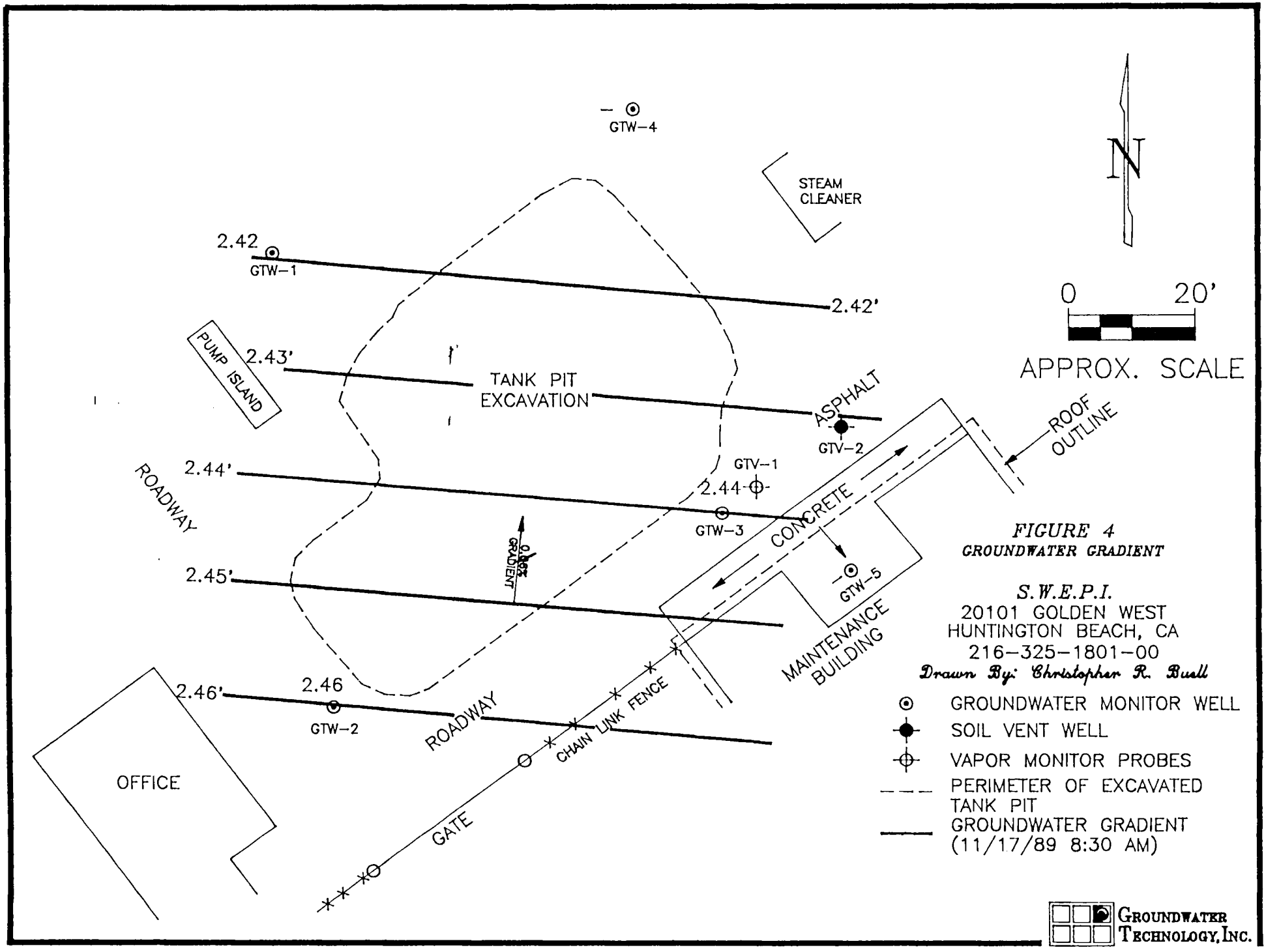


FIGURE 4
GROUNDWATER GRADIENT

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801-00
Drawn By: Christopher R. Buell

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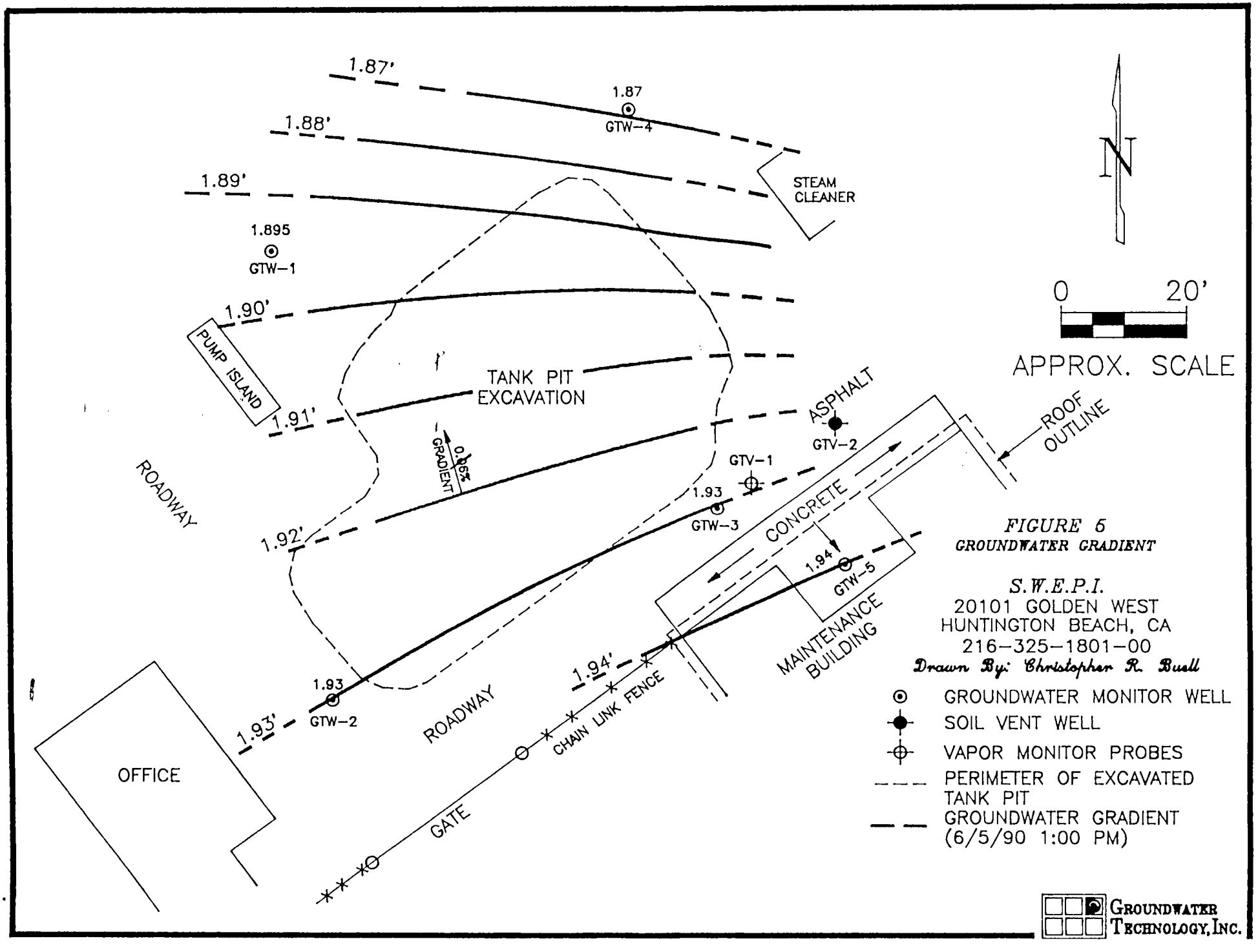


FIGURE 6
GROUNDWATER GRADIENT

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801-00
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

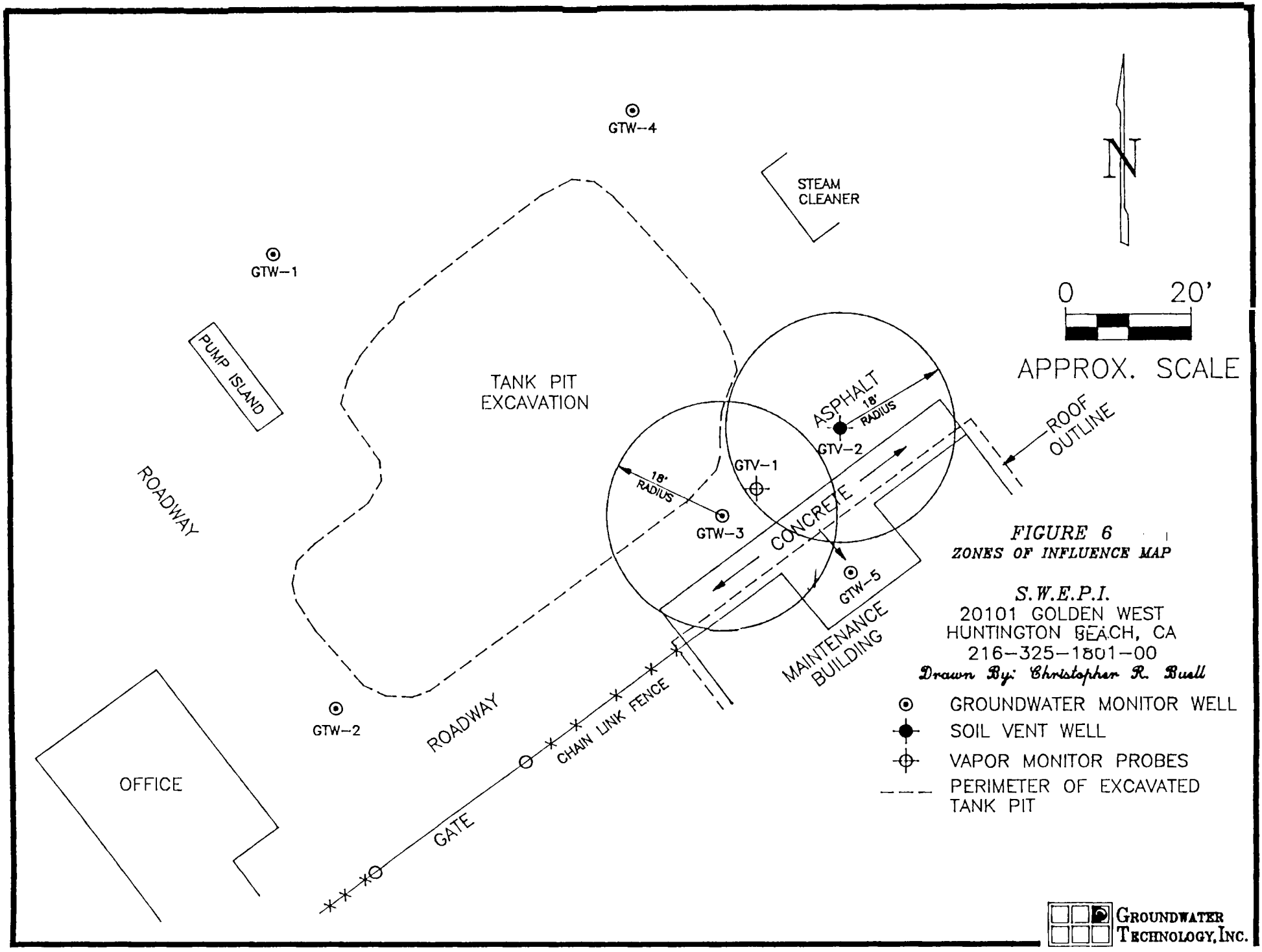


FIGURE 6
ZONES OF INFLUENCE MAP

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801-00
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

APPENDIX A

WELL/LITHOLOGIC LOG

Well/Boring #GTW1

Job Name: S.W.E.P.I II	Project Number: 216-325-1801-00
Location: 20101 Goldenwest, Huntington Beach	Total Depth of Hole: 56.5 feet
Date Drilled: Nov. 10, 1989 A.M.	Depth to Water at Time of Drilling: 32.5 feet
Surface Elevation: 35.1 feet	Screen Size and Type: .020" Machine Slotted Schedule 40 PVC
Log By: Doug Ford	Casing Size and Type: 4" Diameter Schedule 40 PVC
Drilling Company: Sierra Pacific Exploration	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note: Boring located next to active pump island near northeast end of tank pit

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
0								3" Asphalt Coat SW Sand: Brown, moist, medium dense, moderate hydrocarbon odor. Unsorted, medium to coarse grained, subangular quartz sand with some pea gravel. FILL
								OH Organic silty clay: Dark grey, most, stiff, faint hydrocarbon odor. Rootlets and trace of fine sand. Very plastic.
5			100	GTW1-5		3 5 9		Decrease in color density. CL Silty clay: White-grey, moist, stiff, faint hydrocarbon odor. Carbonaceous micaceous. Increasing sand %. Silty clay - faint odor.
10			100	GTW1-10		3 11 17		SM Silty sand: Light brown, dense, moderate hydrocarbon odor. Not sharp, slightly sweet smell. Micaceous, very fine grained subangular quartz sand with a trace of ferromag. minerals (<5%). No apparent grain orientation. Alternating sands/silts.
15			120	GTW1-15		7 14 12		ML/SW Alternating Sandy Silt/Sand: Sands are light brown, moist, dense, moderate odor. Coarse grained, unsorted, subangular to angular, quartz rich with <5% ferromag. minerals. Silts are grey-brown moist, stiff, moderate odor. Thin beds of silty clay in silt beds. Partially laminated. Very fine grained mica grains oriented perpendicular to borehole.
20			240	GTW1-20		5 14 12		SW/SM Sand/Silty Sand: Alternating light brown, unsorted medium to coarse grained subangular quartz sands with brown, unsorted, medium to fine grained subangular silty sands. Moist, faint odor. Non plastic to slightly plastic. No apparent orientation. Ferromag. minerals <5%.
25								

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Date: December 4, 1989 | Drawn By: GTI

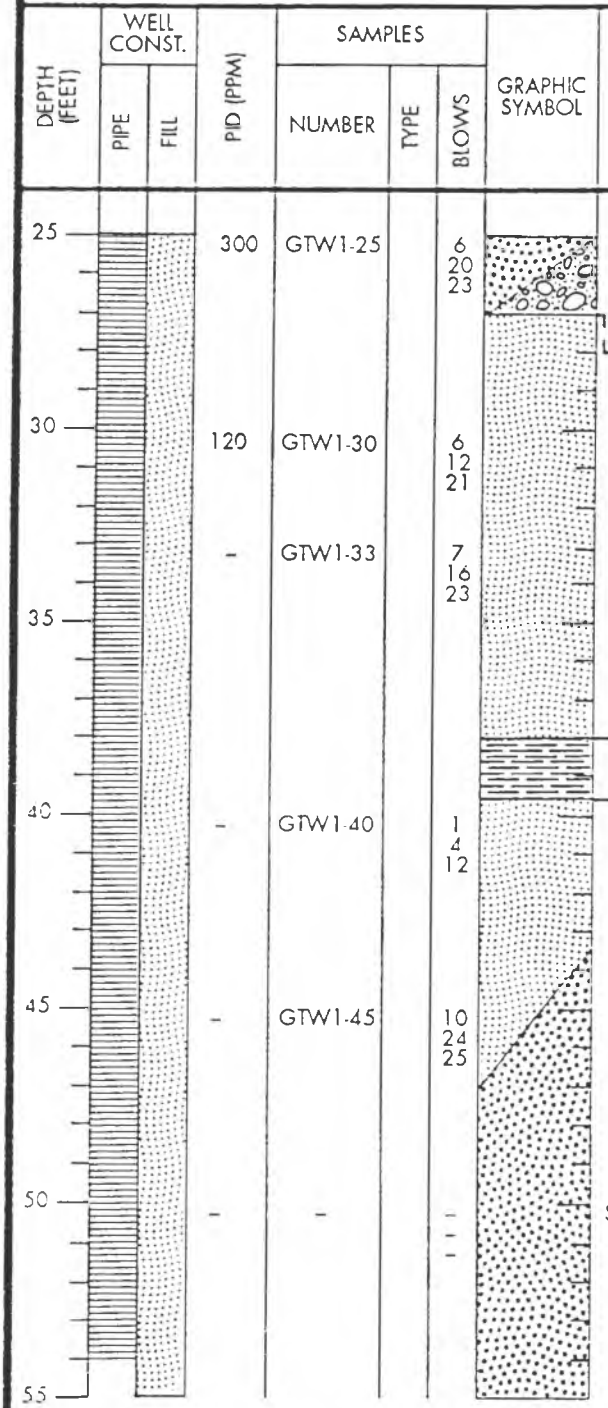
TORRANCE GROUNDWATER TECHNOLOGY, INC.

PROJECT NAME: S.W.E.P.I. II

PROJECT NUMBER:216-325-1801-00

BORING/WELL NUMBER: GTW1

APPENDIX 1



DESCRIPTION

SW/GW Sand: Light brown, moist, dense, faint to no hydrocarbon odor. Coarse grained, subangular, unsorted quartz sands with 10% ferromag. minerals. Grades into very coarse grained sand/pea gravel mixture. Light brown and very moist at 30'. No hydrocarbon odor. Unsorted, angular quartz/feldspathic sands with subangular granite pea gravel. Rust brown FeO_2 staining.

Very moist.
SP Sand: Brown, dense, faint hydrocarbon odor, not sharp, slightly sweet smell. Well sorted, fine grained, subangular quartz sand with <5% ferromag. minerals. Trace FeO_2 staining. No apparent grain orientation. Groundwater at 32.5 '.

SP Sand: Light grey, saturated, no hydrocarbon odor, dense, medium grained, well sorted, subangular, quartz sand with 15% ferromag. minerals.

CL Silty clay: Dark grey, stiff, very moist, no hydrocarbon odor. Plastic. Trace of very fine grained micaceous sand.

SP Sand: Light brown, saturated, no hydrocarbon odor, medium dense. Coarse grained, well sorted, subangular quartz sand with <10% ferromag. minerals. Non plastic. Unoriented sand grains.

SP/SW Bioclastic Sand: Grey-brown, saturated, dense, no hydrocarbon odor. Very coarse grained, well to poorly sorted, subangular quartz sands. Occassional traces of pea gravel (quartzites). Abundant bivalve shell fragments (>20%). Some fragments up to 2" in diameter.

SW Bioclastic sand: Same as above.

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Date: December 4, 1989 | Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

PROJECT NAME: S.W.E.P.I II

PROJECT NUMBER: 216-325-1801-00

BORING/WELL NUMBER: GTW1

APPENDIX 1

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
55			-	GTW1-55		18 35 35		SW/GW Sand: Light grey-brown, saturated, very dense, no odor. Alternating very fine grained, well sorted subangular quartz sand beds with <5% ferromag. minerals/sandy gravels consisiting of very coarse grained quartz sands and pea to 2" gravels, subrounded quartzite and granite. Trace shell fragments. Unsorted sand beds present also. Same as above.
								End boring at 55'. Sampled to 56.5'. Groundwater at 32.5'. Set groundwater monitoring well to 54'. Soil cuttings deposited in labeled 55-gallon drums and stored on-site.
60								
65								
70								
75								
80								
85								

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Date: December 4, 1989 | Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring #GTW2

Job Name: S.W.E.P.I. II	Project Number: 216-325-1801-00
Location: 20101 Goldenwest, Huntington Beach	Total Depth of Hole: 55 feet
Date Drilled: December 13, 1989	Depth to Water at Time of Drilling: 33 feet
Surface Elevation: 35.2 feet	Screen Size and Type: .020" Machine Slotted Schedule 40 PVC
Log By: Doug Ford	Casing Size and Type: 4" Diameter Schedule 40 PVC
Drilling Company: Sierra Pacific Exploration	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note: Boring located near south end of tank pit

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
0								2" and 3". Asphalt layers over 12" base.
								GW Sand/Cobbles: Dense, no odor, coarse sands. FILL.
								CH Clay: Green-grey, very moist, stiff, no hydrocarbon odor. Very plastic.
								OH Organic clay: Dark grey-brown, moist, stiff, musty organic odor. Very plastic.
5			180	GTW2-5		5 10 12		CL Silty clay: White-grey brown, moist, very stiff, no hydrocarbon odor. Trace of rounded sands, medium grained. Rootlets present. Plastic. Carbonaceous clay. Decreasing clay %.
10			200	GTW2-10		4 10 10		SC/SM Clayey sand/Silty sand: Mottled grey-brown, moist, medium dense, no hydrocarbon odor. Very fine grained silty sands with around 20% clay binder. Contains abundant quartz, micaceous, subangular. Some alternating beds of silty sand with abundant clay.
								Increasing sand % and size. Decrease in clay.
15			400	GTW2-15		10 21 21		SP Sand: Light grey, moist, dense, faint hydrocarbon odor. Moderately sorted, medium grained, subangular, micaceous quartz sands. Some FeO_2 staining on grains.
								SP/SW Coarse grained quartz sands. Same as above. Brown sand with <5% ferromag. minerals.
20			210	GTW2-20		7 18 22		SW Sand: Grey, moist, dense, moderate hydrocarbon odor. Micaceous, medium to fine grained, poorly sorted, subangular quartz sands. Some biotite mica. Trace clay binder.
								SM/CL Some clay silty sand beds. (cuttings). Unknown thickness.
25						14		

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Date: December 4, 1989	Drawn By: GTI

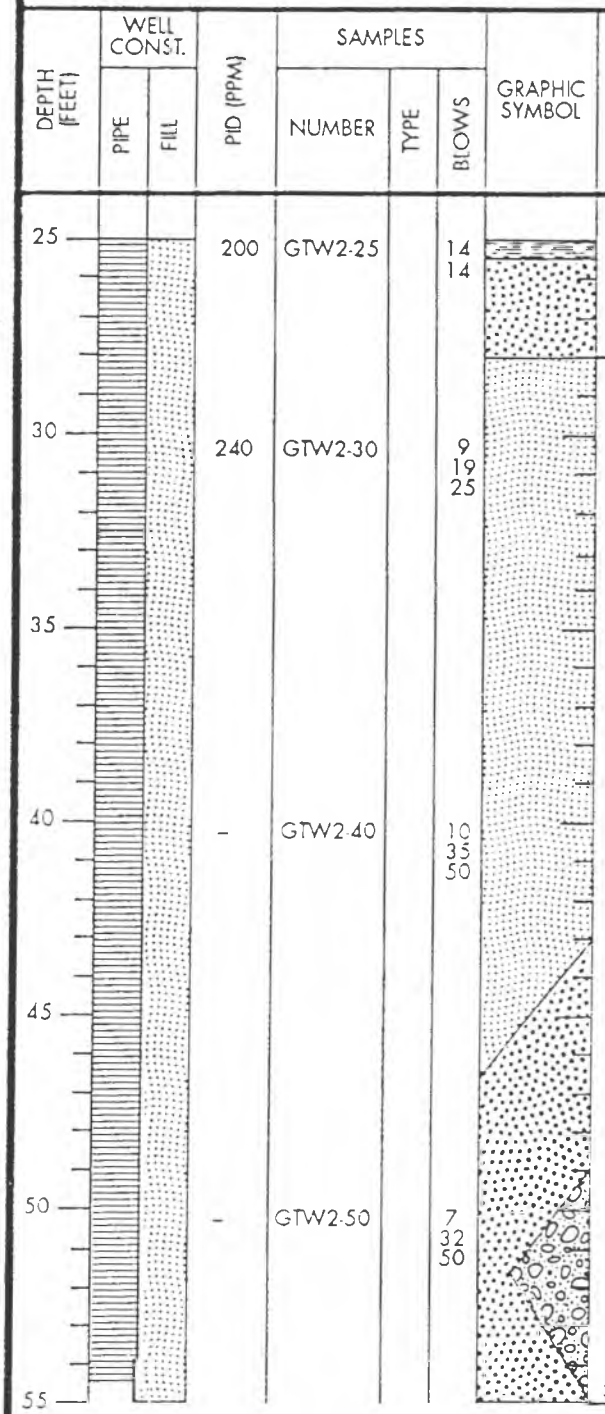
TORRANCE GROUNDWATER TECHNOLOGY, INC.

PROJECT NAME: S.W.E.P.I. II

PROJECT NUMBER: 216-325-1801-00

BORING/WELL NUMBER: GTW2

APPENDIX 1



DESCRIPTION

SW/ML Alternating thin to medium beds of laminated sandy SILT/SAND: Brown, moist, dense, coarse grained subangular, unsorted quartz sand with granitic pea gravel. Micaceous, brown, moist, stiff, laminated, silts with a moderate odor. FeO_2 stained sand grains.

SP Sand: Light grey-brown, very moist, dense, faint, hydrocarbon odor. Medium grained, well sorted, subangular sand with <5% ferromag. minerals. Less than 10% Biotite mica. FeO_2 staining in veins/channels. Cuttings saturated at 33'.

Cuttings logged only.

SP Sand: Light grey-brown, saturated, very dense, no hydrocarbon odor. Coarse grained, subangular, moderate to well sorted quartz sand with 5 to 10% ferromag. minerals (biotite magnetite). Sands weakly laminated, platy biotite/ferromag. mineral grains oriented perpendicular to vertical borehole.

Bioclastic Sand (marine).

SW/GW Bioclastic Sand/Gravel (marine): Light brown, saturated, very dense, no hydrocarbon odor. Very coarse grained, subrounded, unsorted quartz sand with <5% ferromag. minerals 5-20% pea gravel up to 1" diameter. Quartzites/Granite bioclastic grains = Bivalve shells/other shell fragments between 10-20%. Patches of gravel.

SW/GW Same as above.

End boring at 55'. Sampled to 51.5'. Groundwater at 33'. Set groundwater monitoring well to 54.5'. Soil cuttings deposited in labeled 55-gallon drums and stored on site.

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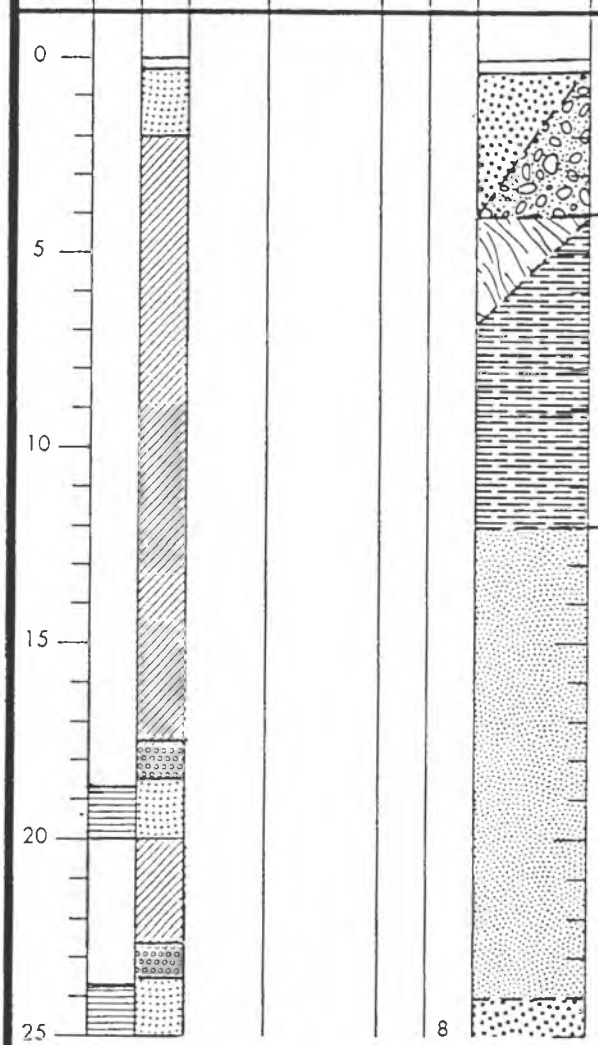
Date: December 4, 1989 | Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring #GTV1

Job Name: S.W.E.P.I. II	Project Number: 216-325-1801-00
Location: 20101 Golden West, Huntington Beach	Total Depth of Hole: 31 1/2 feet
Date Drilled: December 7, 1989	Depth to Water at Time of Drilling: Not present
Surface Elevation: —	Screen Size and Type: .020/PVC 3"
Log By: Doug Ford	Casing Size and Type:
Drilling Company: Sierra Pacific	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note: Boring used as monitoring point. Set dual vapor extraction probes for vent test.



DESCRIPTION

10:40 a.m. Cuttings logged from 0-25' below grade

3" Asphalt layer over sand/gravel.
SW/GW Gravelly Sand: brown, moist, no hydrocarbon odor. Coarse grained, unsorted quartz sands with pea to 2" diameter, rounded gravels. Fill.

10:51 am
CH/CL Clay: dark gray, moist to very moist, stiff, no hydrocarbon odor. Cuttings ribbon on auger flights. Very plastic to plastic.

CL Clay: brown, moist, stiff, no hydrocarbon odor.

Cuttings change texture abruptly.

SM Silty Sand: brown, moist, faint hydrocarbon odor.

Faint hydrocarbon odor in cuttings at 15'.
Increase in clay % downward.

SM Clayey Silty Sand: brown, moderate hydrocarbon odor, moist. Fine grained sands with abundant silt and some clay.

11:00 am
SM Silty Sand: brown, moist, moderate to strong hydrocarbon odor at 22'.

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20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990	Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

Project Name: S.W.E.P.I. II

Project Number: 216-325-1801-00

Appendix 1

Boring/Well Log Number: GTV1

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
25			2200	GTV1-25		8 17		12:00 pm SP/SW Alternating medium beds of unsorted silty clayey sands with well sorted sands. Strong hydrocarbon odor. Silt/Clay Sands (SM): brown, moist, medium dense, medium grained, subongular, micaceous sands. Trace clay. 10-20% silt. Sand: well to moderately sorted, light brown, moist, dense, subangular, quartz sand with <5% ferromag. minerals.
30			2000	GTV1-30		7 15 23		12:30 pm Increasing moisture from 29-31'. Moist to very moist. ML/SW Clayey Silt/Sand: Very thinly laminated micaceous, medium beds of brown clayey silts, alternating with unsorted medium grained, subangular quartz sands with <5% ferromag. minerals. Sand beds are light brown, moist to very moist (31'), dense, strong pungent hydrocarbon odor.
35								End boring at 30'. Sampled to 31 1/2'. No groundwater encountered at bottom of borehole. Set dual vapor extraction probes at 25' and 20'. Soil cuttings deposited in labeled 55-gallon drum and stored on-site
40								
45								
50								
55								

GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990

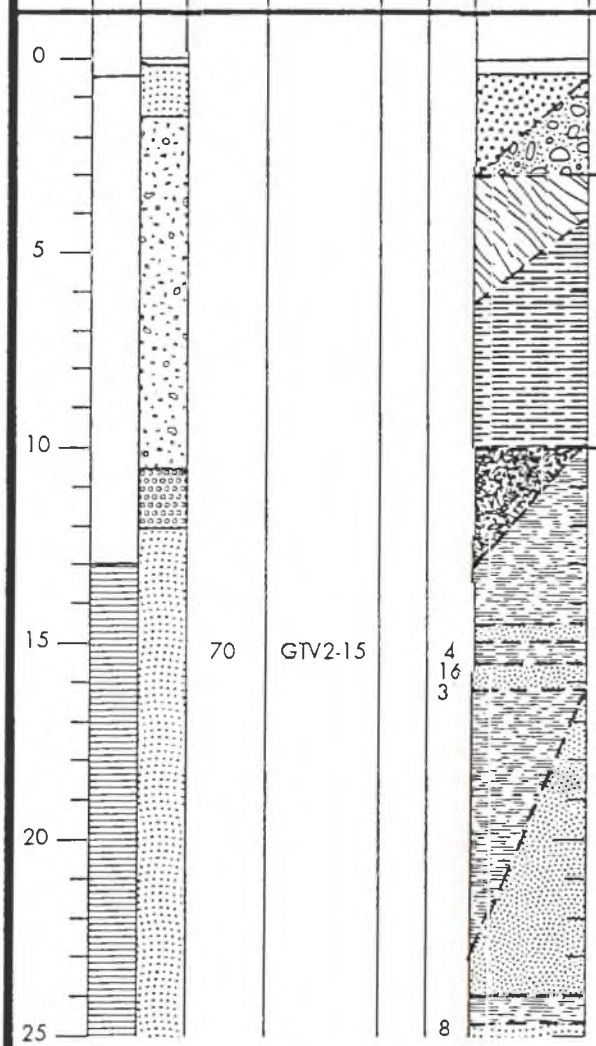
Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring #GTV2

Job Name: S.W.E.P.I. II	Project Number: 216-325-1801-00
Location: 20101 Golden West, Huntington Beach	Total Depth of Hole: 33 feet
Date Drilled: December 14, 1989	Depth to Water at Time of Drilling: 32 feet
Surface Elevation: —	Screen Size and Type: .020/PVC 3"
Log By: Doug Ford	Casing Size and Type: 3" Diameter PVC
Drilling Company: Sierra Pacific	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note:



DESCRIPTION

Logged cuttings from 0-15' below grade.

8:30 am
3" asphalt layer over sand/gravel.
SW/GW Gravelly Sand: brown, moist, medium dense, no hydrocarbon odor. Coarse grained, unsorted quartz sand with pea to 2" gravels, rounded granites. Fill.

CH Clay: dark grey-brown, moist to very moist, stiff, no hydrocarbon odor. Very plastic, organic.

CL Clay: brown, moist, stiff, no hydrocarbon odor. Plastic.

8:38 am

SC/ML Clayey Sand/Sandy Silt: slightly plastic. Very fine grained, subangular sands, unoriented grains.

8:45 am
SM/ML Silty Sand/Sandy Silt: Alternating medium beds of sandy silt containing traces of clay and silty sand.
Sandy Silt: brown, moist, faint hydrocarbon odor, very stiff, micaceous. Sands: very fine to fine grained, subangular, poorly sorted, quartz rich. <10% Ferromag. minerals.

Sand size increasing downwards.
9:00 am
ML/SP Alternating beds of sand, Silt/Sand: Sand well to moderately sorted, fine grained. Silt: partial orientation of very fine grained micaceous minerals. Partings horizontal to vertical borehole. Strong hydrocarbon odor.

GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990	Drawn By: GTI

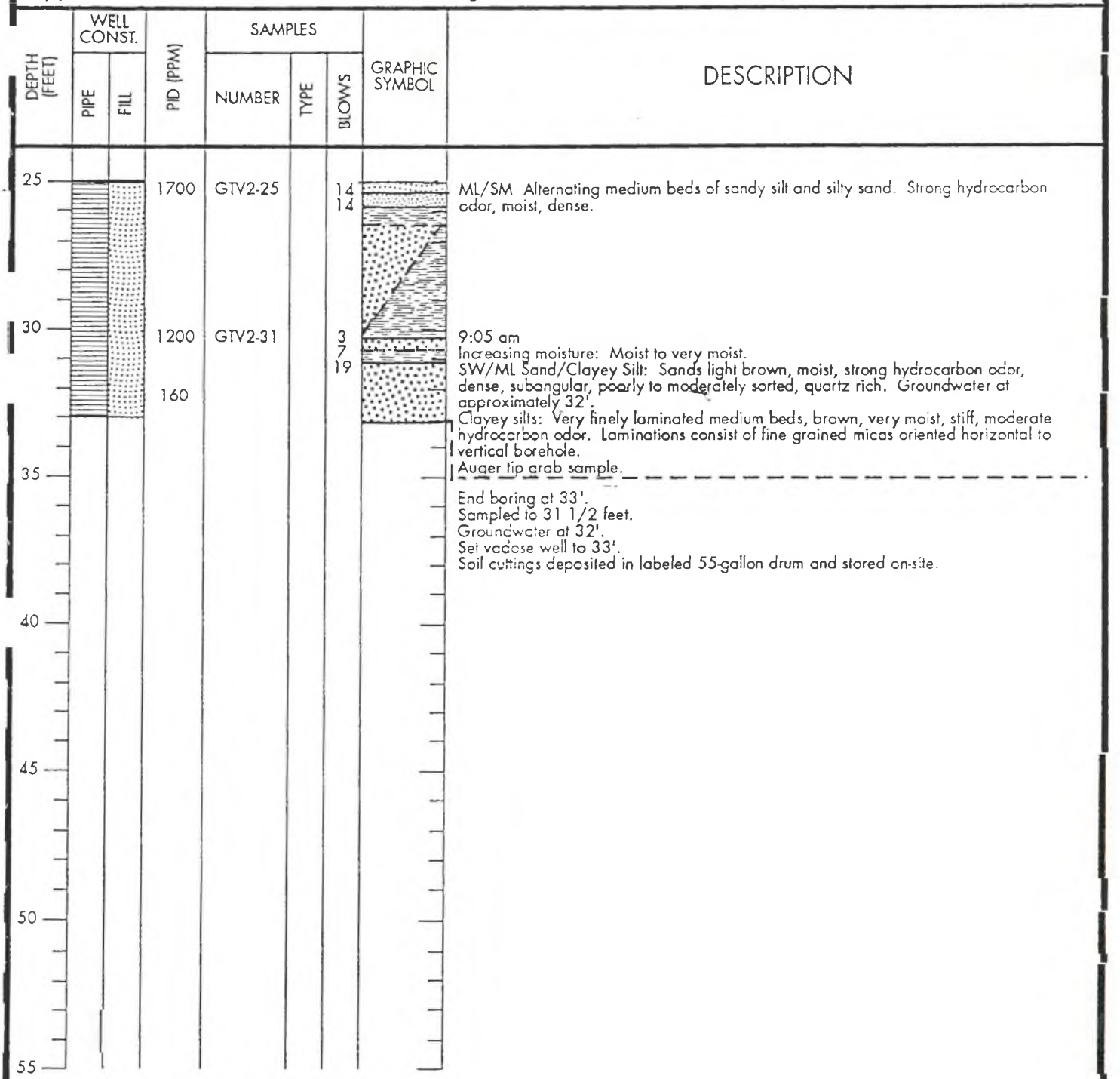
TORRANCE GROUNDWATER TECHNOLOGY, INC.

Project Name: S.W.E.P.I. II

Project Number: 216-325-1801-00

Appendix 1

Boring/Well Log Number: GTV2



GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990

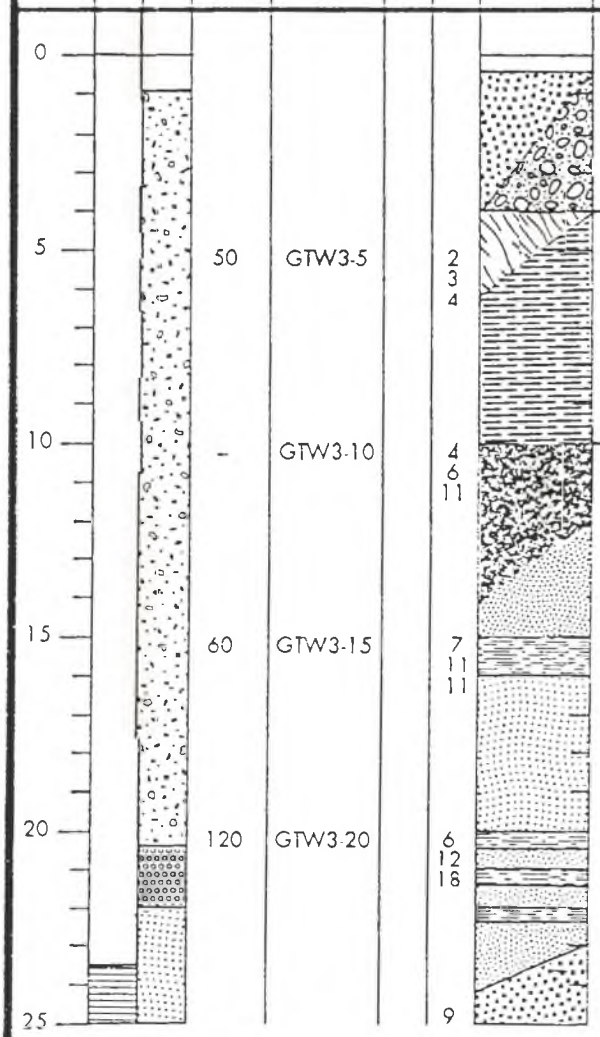
Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring #GTW3

Job Name: S.W.E.P.I. II	Project Number: 216-325-1801-00
Location: 20101 Goldenwest, Huntington Beach	Total Depth of Hole: 55 feet
Date Drilled: Nov. 13, 1989	Depth to Water at Time of Drilling: 33 feet
Surface Elevation: 34.9 feet	Screen Size and Type: .020" Machine Slotted Schedule 40 PVC
Log By: Doug Ford	Casing Size and Type: 4" Diameter Schedule 40 PVC
Drilling Company: Sierra Pacific Exploration	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note: Boring located near maintenance building, near east end of tank pit.



DESCRIPTION

6" asphalt layer on gravelly sand.

SW/GW Gravelly sand: Brown, moist, no hydrocarbon odor. Coarse grained, unsorted to poorly sorted quartz sands with subrounded pea to 2" gravel. FILL.

CH/CL Clay: White-grey, moist, medium stiff, no hydrocarbon odor. Trace micaceous, very fine grained sand. No grain orientation. Carbonaceous.

Increasing grain size.
Lost sample from sampler. Bored to 15' for next sample.

SC/SM Clayey sand/Silty sand
Slightly plastic.

ML/SP Sandy silt/sand: Alternating medium beds of sandy silt and well sorted sands. Silts: brown, moist, faint sweet hydrocarbon odor, micaceous, unoriented grains. Sands: fine grained, well sorted, subangular, quartz rich with <20% ferromag. minerals including biotite micas.

ML/SM Sandy silt/Silty sand: Very thin lamintaed silts with very thin beds of fine grained quartz sands containing high % of mica (@20%). Alternating fine laminae of silt/sand. Brown, moist, moderate to strong hydrocarbon odor at 21' in very thinly laminated sand layers.

GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: December 4, 1989	Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

PROJECT NAME: S.W.E.P.I. II

PROJECT NUMBER: 216-325-1801-00

BORING/WELL NUMBER: GTW3

APPENDIX 1

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
25			240	GTW3-25 (sieve)		15 20		SW/SP Sand: Alternating medium beds of unsorted, silty/clay sands with well sorted sands. Silt/clay sands: Brown, moist dense medium grained, subangular, micaceous grains. Sands: well sorted, brown, moist, dense, with some clay binder. Strong, pungent, hydrocarbon odor. Amount of sorting fluctuates in sampled section.
30			160	GTW3-30		17 37 50		SP/SW Sand: Part well sorted, fine groined, subangular quartz sand/part unsorted medium grained, beds of subangular quartz sand with traces of biotite/ferromag. minerals (<5%). Brown, moist to very moist at 31', very dense, strong hydrocarbon odor. Groundwater at 33'.
35								
40			–	GTW3-40 (sieve)		20 28 >50		SW Sand: Light grey-brown, saturated, dense to very dense, no hydrocrabon odor. Poorly to moderately sorted, coarse grained, subangular quartz sand with <5% ferromag. minerals. Trace sub rounded grains.
45								SP/SW Bioclastic Sand (marine): Light brown, saturated, dense, no hydrocarbon odor.
50			–	GTW3-50		25 35 >50		SW Bioclastic Sand (marine): Light brown,saturated, very dense, no hydrocarbon odor. Very coarse grained, subangular to subrounded, unsorted, quartz sand with <5% ferromag. minerals. Trace subangular pea gravel at 51'. Bioclastic grains: bivalves up to 1" diameter (intact), gastropods, echinoderm spines. (up to 30%). Gravel patches (Tip of auger). Same as above.
55								End boring at 55'. Sampled to 51'. Groundwater at 33'. Set groundwater monitoring well at 53.5'. Soil cuttings deposited in labeled 55-gallon drums and stored on-site.

GROUNDWATER TECHNOLOGY, INC.
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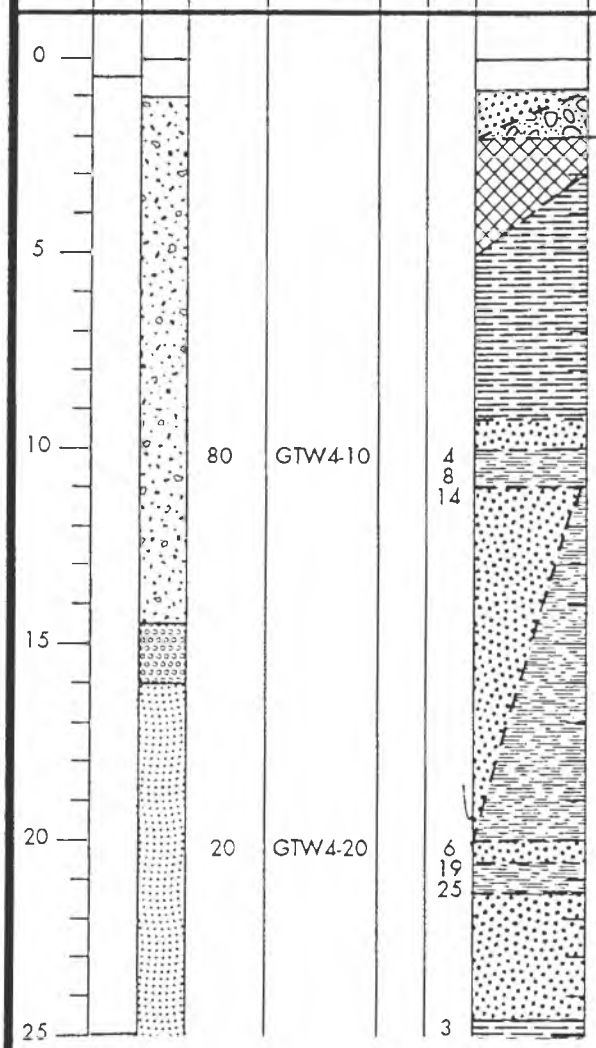
Date: December 4, 1989 | Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring #GTW4

Job Name: S.W.E.P.I. II	Project Number: 216-325-1801-00
Location: 20101 Golden West, Huntington Beach	Total Depth of Hole: 55 feet
Date Drilled: December 14, 1989	Depth to Water at Time of Drilling: 33 feet
Surface Elevation: —	Screen Size and Type: .020/PVC 4"
Log By: Doug Ford	Casing Size and Type: 3" Diameter PVC
Drilling Company: Sierra Pacific	Drill Method: Hollow Stem Auger
Driller: Roger Strong	Note:



DESCRIPTION

10:40 am
9" Asphalt layer over sand/gravel.
SW/GW Sand/Gravelly sand mix: brown, very coorse grained, moist, heavy crude-like odor (hydrocarbons). Subangular quartz sand pea gravel mix. Fill.

OH/CL Organic Silty Clay/Silty Clay: dark gray-brown, (cuttings logged), stiff, moderate hydrocarbon odor, very plastic. Partly laminated. Increasing sand %

10:55 am
SW/ML Sand/Sandy Silt: sandy silts are thinly laminated micaceous, moist, striated, grey-black from hydrocarbon staining => heavy oil odor, not sharp. Horizontal laminae cross borehole direction. Very fine grained sands, light brown, moist, medium dense, faint hydrocarbon odor.

11:10 am
ML/SW Clayey Silt/Sand: Alternating thin beds of medium grained sands and clayey silt. Clayey Silt: brown, moist, very stiff, no odor. Unoriented, micaceous minerals, very fine grained sand present. Silts contain rootlets/soil fractures. Sand: medium grained, unsorted, subangular, micaceous/quartz rich, moist, no hydrocarbon odor, dense, light brown. FeO_2 staining in and around mineral grains. Ferromag minerals <5%.

Silty Clay

GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990	Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

Project Name: S.W.E.P.I. II

Project Number: 216-325-1801-00

Appendix 1

Boring/Well Log Number: GTW4

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
25			30	GTW4-25		3 5		11:17 am CL/SW Silty Clay/Sand: sand same as above. Silty clay partially laminated, micaceous partings. Moist brown with white-grey mottling (carbonaceous), no hydrocarbon odor. Very fine grained micaceous sand. Very faint hydrocarbon odor at 25' in sand. Ferromag. minerals <5%.
30			320	GTW4-31		5 8 12		12:05 p.m. SP/ML Sand/Sandy Silt: sands orange-brown very moist, moderate hydrocarbon odor, medium dense. FeO_2 stained quartz rich coarse to medium grained high % of biotite mica (≤10%). Slightly laminated sandy silts, grey-brown, very moist, very stiff, faint hydrocarbon odor. Faintly laminated by very fine grained qtz/mica minerals (ferromags. <10%). Groundwater at 33'. Logged cuttings from 32-44 1/2'. Well sorted/unsorted sand.
35								
40								Sand pressured up auger at this point. (Injection)
45				GTW4-45		6 15 27		12:45 pm SP/SW Sand: poorly to moderately sorted, faintly laminated brown-orange/light brown by FeO_2 staining, saturated, no hydrocarbon odor. Preferential staining laterally. Little or no visible grain orientation, medium grained, subangular quartz sands with <5% Ferromag. minerals. No observed bioclasts.
50								Logged cuttings from lead auger over last 9 feet. SW Sand.
55								End boring at 55'. Sampled to 46.5'. Groundwater at 33'. Set groundwater monitoring well at 55'. Soil cuttings deposited in 55-gallon drums, labeled and stored on site.

GROUNDWATER TECHNOLOGY, INC.
20,000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: January 3, 1990

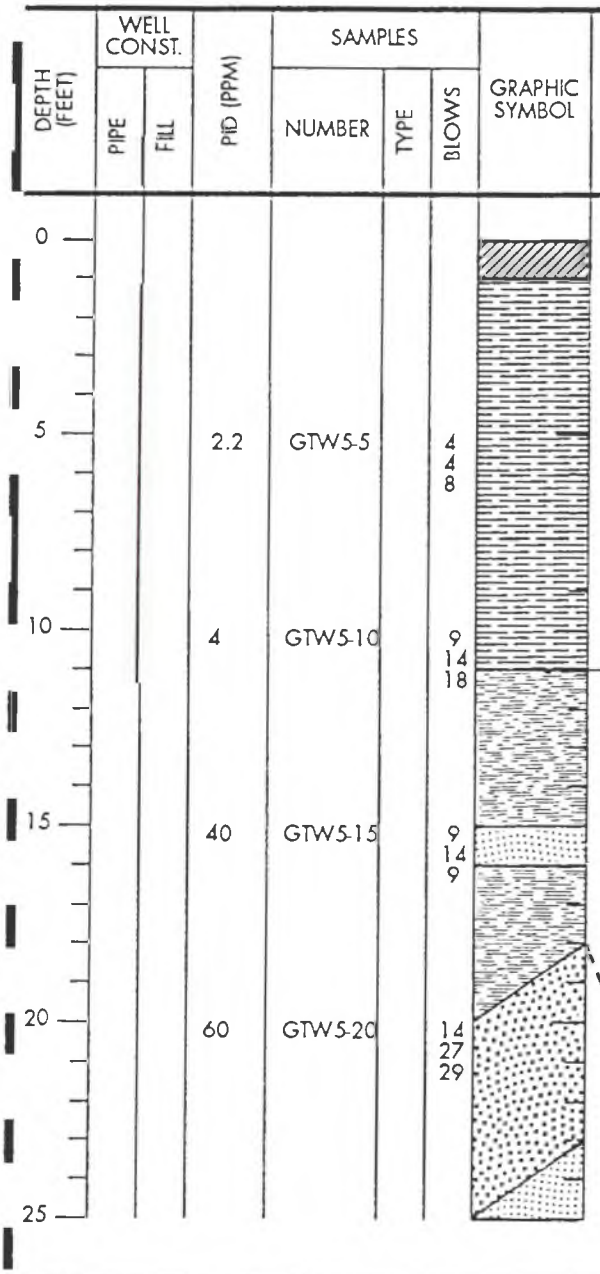
Drawn By: GTI

TORRANCE GROUNDWATER TECHNOLOGY, INC.

WELL/LITHOLOGIC LOG

Well/Boring # GTW5

Job Name: SWEPI II	Project Number: 216-325-1801-00
Location: 20101 Golden West, Huntington Beach	Total Depth of Hole: 50'
Date Drilled: May 23, 1990 (am-pm)	Depth to Water at Time of Drilling: 33'
Surface Elevation: —	Screen Size and Type: 0.020"/4" PVC
Log By: Doug Ford	Casing Size and Type: 4" PVC
Drilling Company: Sierra Pacific	Drill Method: Hollow Stem Auger
Driller: Mark Smith	Note:



DESCRIPTION

10:30 am

CL Sandy Clay: Dark grey brown, moist, soft, faint hydrocarbon odor. Plastic.

CL Clay: Dark olive-grey, moist , stiff, very faint hydrocarbon odor. Mottled white grey/olive grey when calcareous veins present. Clays @ 90%, carbonate fracture filler @10%. Moderate reaction to HCL. Trace quartz sand. Plastic.

11:15 am
CL Clay: Olive grey, moist, hard, no hydrocarbon odor. Same as above.

ML Clayey Silt with a little sand: Light olive brown, moist, hard, no hydrocarbon odor. Silt @ 60-70%, clays @ 30%, sand <5%. Micaceous, subangular, quartz sand. Slightly plastic.

ML/SP Alternating thin beds of sandy SILT/SAND/Clayey SILT: Grey, moist, very stiff, sandy silt with no hydrocarbon odor (ML). Fine to medium grained, micaceous, subangular quartz sands (SP). Light brown, medium dense, moist, with a faint hydrocarbon odor. Clayey silts (ML) at 16' are micaceous, moist, olive brown with no hydrocarbon odors.
(ML) Sandy Silt: Silt @ 80%, sand @ 20%
(SP) Sand: Fine to medium grained <5% silt.
(ML) Clayey Silt: Silt @ 60%. clays @ 30%, sand <10%.

SW Sand with gravel and silt: Light orange-brown, moist, very dense, moderate hydrocarbon odor. Fine to medium grained sand @ 80%, silt @ 5%, gravel 10-15%. Subrounded to subangular, quartz sand with <15% ferromag minerals. Gravels are subrounded, granitic, 1/4" to 1/2" Dia.

GROUNDWATER TECHNOLOGY, INC.
20000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: June 11, 1990	Drawn By: GTI

GROUNDWATER TECHNOLOGY, INC.

Project Name: SWEPI II | Project Number: 216-325-1801-00

Appendix 1 | Page 2 of 2 | Boring/Well Log Number: GTW5

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS	GRAPHIC SYMBOL	DESCRIPTION
								12:30 pm Decreasing grain size.
25			160	GTW5-25		6 14 12		SP/SM Sand/Silty Sand: Light brown to grey brown (SM), moist, medium dense, strong hydrocarbon odor. SP Sand: Fine grained, subangular, quartz sand. SM Silty sand: Fine to medium grained, subangular, @ 40% silt, @ 60% snad. Decreasing grain size.
30			90	GTW5-30		5 8 12		ML/SM Clayey silt/sandy silt down to 31 feet: Clayey silt thinly laminated, brown, moist to very moist, faint hydrocarbon odor. Sandy silt contains fine grained, subongular quartz sand. Slightly plastic.
								SM Silty Sand at 31': Brown, very moist, medium dense, modercte to strong hydrocarbon odor. Fine to medium grained, subongular quartz sand with @ 30% silt. Trace ferromag. Minerals. Micaceous. Groundwater at 33'. Non plastic at 31'.
35								
40								SW Sand: Light brown, saturated, no hydrocarbon odor. Coarse grained, subangular to subrounded, quartz sand. Bioclastic sand grains, slightly calcareous.
45								
50								End boring at 50'. Sampled to 31 1/2'. Groundwater encountered at 33'. Soil cuttings placed in labeled 55 gallon drums and stored on-site.
55								

GROUNDWATER TECHNOLOGY, INC.
20000 Mariner Avenue, Suite 200 • Torrance, California 90503 • (213) 371-1394

Date: June 11, 1990 | Drawn By: GTI

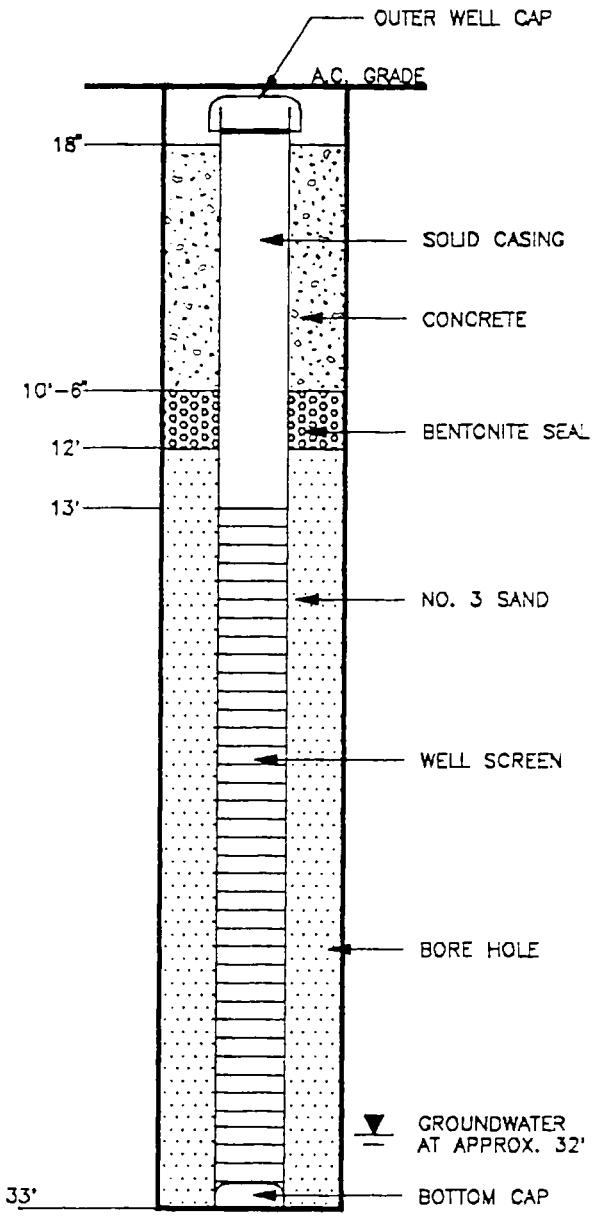
GROUNDWATER TECHNOLOGY, INC.

APPENDIX B

CONSTRUCTIONAL DIAGRAMS OF:

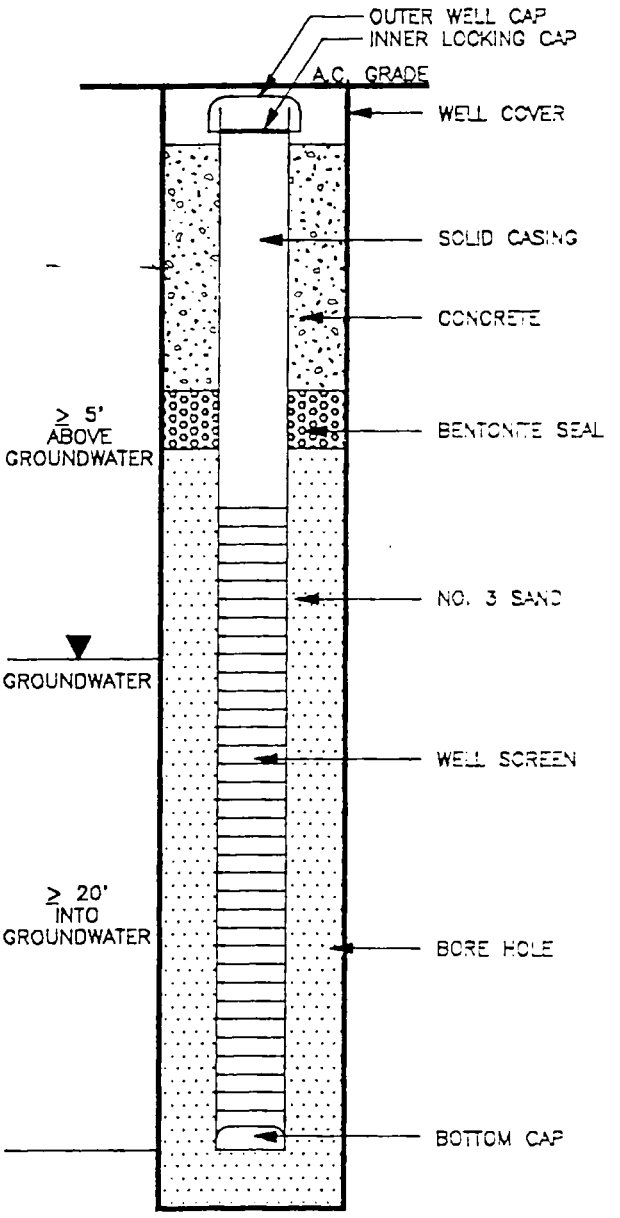
VAPOR RECOVERY WELL (3" DIAMETER CASING) GTV2

NOT TO SCALE



SCHEMATIC OF GROUNDWATER MONITORING WELLS (4" DIAMETER CASING)

NOT TO SCALE

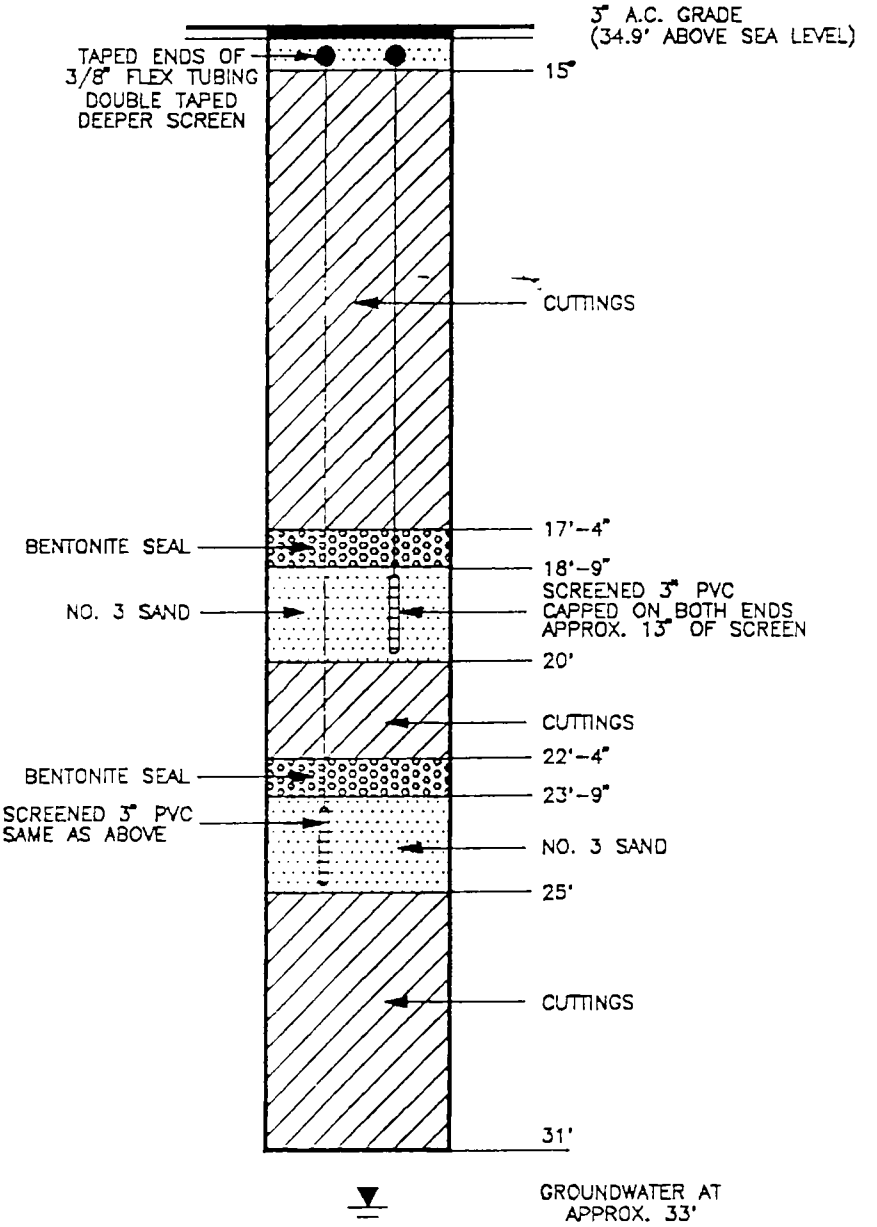


S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
215-325-1801

APPENDIX B

CONSTRUCTIONAL DIAGRAM OF:

SOIL VAPOR EXTRACTION TEST PROBES
(3" DIAMETER CASING)
GTV1
NOT TO SCALE



S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
215-325-1801

APPENDIX B

APPENDIX C

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 216325180 1.00-1M
Report Issue Date: November 14, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 11/10/89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 295.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou /ms

Rebecca Hsu-Chou
Laboratory Director

Table 1 (cont)

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		731	732		
Client Identification		GTW1-25	GTW1-30		
Date Sampled		11/10/89	11/10/89		
Date Analyzed		11/10/89	11/10/89		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	<0.05	<0.05		
Toluene	0.05	<0.05	<0.05		
Ethyl Benzene	0.05	<0.05	<0.05		
Xylene (total)	0.05	<0.05	<0.05		
BTEX (total)	0.05	<0.05	<0.05		
Misc. Hydrocarbons[b]	1	<1	<1		
TPH as Gasoline	1	<1	<1		
Detection Limit Multiplier		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC

GTEL ENVIRONMENTAL LABORATORIES INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-1059

Project Manager: Bill Girolamo
Phone #: (213) 371-1394
FAX #:

Address: 20000 Mariner, Suite 200
Site location: 20101 Goldenwest Huntington Beach CA

Project Number: Proposal #7303 216-325-1801-00-1M
Project Name: SWEPI II Huntington Beach

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTWL-5	SWEPI	727	1		X							X			11/10/89	0950
GTWL-10	SWEPI	728	1		X							X				1000
GTWL-15	SWEPI	729	1		X							X				1010
GTWL-20	SWEPI	730	1		X							X				1025
GTWL-25	SWEPI	731	1		X							X				1030
GTWL-30	SWEPI	732	1		X							X				1040

BTEX 602 ☐ 8020 ☐ with MTBE ☐
BTEX/TPH Gas 602/8015 ☒ 8020/8015 ☐ MTBE ☐
TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel
Product I.D. by GC (SIMDIS) ☐
Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐
Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐
EPA 601 ☐ 8010 ☐ DCA only ☐
EPA 602 ☐ 8020 ☐
EPA 608 ☐ 8080 ☐ PCBs only ☐
EPA 610 ☐ 8310 ☐
EPA 624 ☐ 8240 ☐ NBS +15 ☐
EPA 625 ☐ 8270 ☐ NBS +25 ☐
EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐
TCLP Metals ☐ VOA ☐ Semi VOA ☐
EPA Priority Pollutant Metals ☐ HSL ☐
LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐
CAM Metals ☐ STLC ☐ TTLC
Corrosivity ☐ Flashpoint ☐ Reactivity ☐

SPECIAL HANDLING
24 HOURS ☒
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER ____ (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)
0.05

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

Lab Use Only
Lot #:

Storage Location
Work Order #:

CUSTODY RECORD

	Received by:	Time	Date
Relinquished by Sampler:			
Relinquished by:	Received by:	Time	Date
Relinquished by:	Received by Laboratory:	Time	Date
		1040	11/10/89

Way bill #

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801.00-1A
Work Order Number: T911130
Report Issue Date: Nov. 15, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 11/14/89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 295.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou

Rebecca Hsu-Chou
Laboratory Director

Project Number: 2163251801.00-1M
Report Issue Date: November 14, 1989

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		727	728	729	730
Client Identification		GTW1-5	GTW1-10	GTW1-15	GTW1-20
Date Sampled		11/10/89	11/10/89	11/10/89	11/10/89
Date Analyzed		11/10/89	11/10/89	11/10/89	11/10/89
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.05	<0.05	<0.05	<0.05	<0.05
Ethyl Benzene	0.05	<0.05	<0.05	<0.05	<0.05
Xylene (total)	0.05	<0.05	<0.05	<0.05	<0.05
BTEX (total)	0.05	<0.05	<0.05	<0.05	<0.05
Misc. Hydrocarbons[b]	1	<1	<1	<1	<1
TPH as Gasoline	1	<1	<1	<1	<1
Detection Limit Multiplier		1	1	1	1

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A		
Client Identification		GTW2-25	GTW3-25		
Date Sampled		11/13/89	11/13/89		
Date Analyzed		11/14/89	11/14/89		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	<0.05	0.41		
Toluene	0.05	<0.05	3.8		
Ethyl Benzene	0.05	<0.05	3.0		
Xylene (total)	0.05	<0.05	18		
BTEX (total)	0.05	<0.05	25		
Misc. Hydrocarbons[b]	1	<1	110		
TPH as Gasoline	1	<1	140		
TPH as Stoddard Solvent		<1	<1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC

T 4-11-1SD

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-1055

Project Manager: Bill Girolamo
Phone #: (213) 371-1394 Ext. 351
FAX #: (213) 371-4782
Address: 20000 Mariner, Suite 200 Torrance CA. 90503
Site location: 20101 Golden West, Huntington Beach
Project Number: 216-325-1801-00 -1A
Project Name: SWEPI II

I attest that the proper field sampling procedures were used during the collection of these samples.
Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
G-TW2-5	SW		1		X							X			11/3/89	AM
G-TW2-10	SW		1		X							X			11/3/89	AM
G-TW2-15	SW		1		X							X			11/3/89	AM
G-TW2-20	SW		1		X							X			11/3/89	AM
G-TW2-25	SW		1		X							X			11/3/89	AM
G-TW2-30	SW		1		X							X			11/3/89	AM
G-TW3-5	SW		1		X							X			11/3/89	PM
G-TW3-15	SW		1		X							X			11/3/89	PM
G-TW3-20	SW		1		X							X			11/3/89	PM
G-TW3-25	SW		1		X							X			11/3/89	PM
G-TW3-30	SW		1		X							X			11/3/89	PM

ANALYSIS REQUEST

BTEX 602 ☐ 3020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015/8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 3010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 742* ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
	X	Hold															
		Hold															
		Hold															
		Hold															
	X																
		Hold															
		Hold						EXTRACTED 11/14/89									
		Hold						3:00					R.G.				
		Hold															
	X																
		Hold															

SPECIAL HANDLING

24 HOURS X
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER _____ (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

0.05 BTEX

SPECIAL REPORTING REQUIREMENTS (Specify)

Please State whether Stoddard Solvent Present on hard Copy [same as mobil Lab Results ⇒ See B. Ford]

REMARKS:

Run 8015 Mod for Stoddards & 8015 Mod for Gasoline 8020 for BTEX

11/14/89

Lab Use Only
Lot #:

Storage Location
Work Order #:

CUSTODY RECORD

Relinquished by Sampler: Doug Ford — Date 11/14/89 — Time 1:20 PM — Received by: Bill Ford
Relinquished by: Bill Ford — Date 11/14/89 — Time 1:30 PM — Received by Laboratory: Bill Sweet
Relinquished by: — Date — Time — Received by: — Way bill #

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 21632518014
Work Order Number: T912087
Report Issue Date: Dec. 21, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 12/8/89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 248.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,

GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou

Rebecca Hsu-Chou
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline and Stoddard Solvent in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A			
Client Identification		GTV1-31			
Date Sampled		12/7/89			
Date Analyzed		12/19/89			
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	11			
Toluene	0.05	240			
Ethyl Benzene	0.05	180			
Xylene (total)	0.05	970			
BTEX (total)	0.05	1400			
Misc. Hydrocarbons[b]	1	2300			
TPH as Gasoline	1	3700			
TPH as Stoddard Solvent	1	<1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-1178

Project Manager: Bill Girolamo
Phone #: (213) 371-1394 Ext. 351
FAX #:

Address: 20000 Mariner, Suite 200 Torrance, CA. 90503
Site location: 20101 Golden west, Huntington Beach

Project Number: 216-325-1801-00
Project Name: SWEPI

I attest that the proper field sampling procedures were used during the collection of these samples.
Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTVI-25			1		X							X			12/7/89	PM
GTVI-31	1A		1		X							X			12/7/89	PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 with MTBE ☐ BTEX/TPH Gas 602/8020/8015 MTBE ☐ TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel Product I.D. by GC (SIMDIS) ☐ Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐ Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐ EPA 601 ☐ 8010 ☐ DCA only ☐ EPA 602 ☐ 8020 ☐ EPA 608 ☐ 8080 ☐ PCBs only ☐ EPA 610 ☐ 8310 ☐ EPA 624 ☐ 8240 ☐ NBS +15 ☐ EPA 625 ☐ 8270 ☐ NBS +25 ☐ EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐ TCLP Metals ☐ VOA ☐ Semi VOA ☐ EPA Priority Pollutant Metals ☐ HSL ☐ LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐ CAM Metals ☐ STLC ☐ TTLC Corrosivity ☐ Flashpoint ☐ Reactivity ☐

- Hold - Discard
- Hold - Run 8015/8020 + 8015 Stoddards
EXPECTED 12/18/89
11:25 P.G.
HLS. 12-20-89

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

D.F.
~~Run also for Stoddard Solvent~~

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:
Quantitate BTEX, TPH as gas and Stoddard Solvents for #120-

Lab Use Only
Lot #:
Storage Location
Work Order #:

CUSTODY RECORD

Relinquished by Sampler:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by Laboratory:
Doug Ford					Carol Mebane
Date 12/8/89	Time 8:55AM	Date	Time	Date 12/8/89	Time 9:30

Way bill #

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 21632518013
Work Order Number: T912157
Report Issue Date: Dec. 21, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 12/14/89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 248.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou /MS

Rebecca Hsu-Chou
Laboratory Director

Project Number: 21632518013
Work Order Number: T912157
Report Issue Date: Dec. 21, 1989

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline and Stoddard Solvent in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A		
Client Identification		GTV2-31	GTW4-31		
Date Sampled		12/14/89	12/14/89		
Date Analyzed		12/19/89	12/19/89		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	0.34	<0.05		
Toluene	0.05	0.19	<0.05		
Ethyl Benzene	0.05	0.38	<0.05		
Xylene (total)	0.05	1.8	<0.05		
BTEX (total)	0.05	2.7	<0.05		
Misc. Hydrocarbons[b]	1	2	<1		
TPH as Gasoline	1	5	<1		
TPH as Stoddard Solvent	1	<1	<1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC

, 4' - 12.5"

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76- 6204

Project Manager: Bill Girolamo
Phone #: (213) 371-1394 Ext. 351
FAX #:
Address: 20000 Mariner, S. Ste 200 Torrance, CA. 90503
Site location: 20101 Golden west, Huntington Beach
Project Number: 216-325-4801-00 -3
Project Name: SWEPI

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford 363

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
~~GTW2-25~~																
GTV2-25	SD		1		X							X			12/14/89	AM
GTV2-31	IA		1		X							X			12/14/89	AM
GTV2-32	SD		2		X							X			12/14/89	AM
GTW4-10	IA		1		X							X			12/14/89	AM
GTW4-26	IA		1		X							X			12/14/89	AM
GTW4-25	SD		1		X							X			12/14/89	AM
GTW4-31	SD		1		X							X			12/14/89	PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☒ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
			- Hold -														
	X																
						- Hold -											
			- Hold -														
			- Hold -														
			- Hold -														
	X																
			EXTRACTED 12/18/89														
			11:25 R.G.														
			H.S. 12-20-89														

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:
Quantitate BTEX, TPH as gas and Stoddard Solvents for $120

Lab Use Only
Storage Location
Lot #:
Work Order #:

CUSTODY RECORD

Relinquished by Sampler:	Received by:	Relinquished by Laboratory:
Date 12/15/89 Time 9:15AM	Date Time	Date Time
Relinquished by:	Received by:	Received by Laboratory:
Date Time	Date Time	Date Time
Relinquished by:		Way bill #
Date 12/15/89 Time 10 min		

GTEL
ENVIRONMENTAL
LABORATORIES, INC.
Southwest Region
20000 / 300 Mariner Avenue
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801-00
Work Order Number: U0-05-325
Report Issue Date: June 1, 1990

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000/200 Mariner Ave.
Torrance, Ca. 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 05/24/90. The samples were received and analyzed as indicated on chain of custody number 76-6214, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the California State Department of Health Services under certificate number E723.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 5030, 8020 and modified 8015[a]

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

GTEL Sample Number		01	02		
Client Identification		GTW5-25	GTW5-30		
Date Sampled		05/23/90	05/23/90		
Date Extracted		5/30/90	5/30/90		
Date Analyzed		05/30/90	05/30/90		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	0.24	0.22		
Toluene	0.05	2.1	0.89		
Ethylbenzene	0.05	1.8	0.21		
Xylene, total	0.05	9.1	1.2		
BTEX, total	0.05	13	2.5		
TPH as gasoline	10	70	< 10		

GTEL ENVIRONMENTAL LABORATORIES, INC.

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76- 6214

Project Manager: Bill Girolamo
Phone #: (213) 371-1394
FAX #:
Address: 20000 Mariner Suite 200 Torrance, CA. 90503
Site location: 20101 Golden West Huntington Beach
Project Number: 216-325-1801-00
Project Name: SWEPI II
I attest that the proper field sampling procedures were used during the collection of these samples.
Sampler Name (Print): DOUG FORD

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW5-5		1A	1		X							X			5/23/90	AM
GTW5-10		2A	1		X							X			5/23/90	AM
GTW5-15		3A	1		X							X			5/23/90	AM
GTW5-20		4A	1		X							X			5/23/90	AM
GTW5-25		1A	1		X							X			5/23/90	PM
GTW5-30		2A	1		X							X			5/23/90	PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐	HOLD
																	X	X
																	X	X
																	X	X
																	X	X
	X									1							X	5/30/90
	X																	

EXTRACTED 5-30-90
8100 - A.C.

SPECIAL HANDLING
24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER 10 (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)
40-05-325
40-05-326

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: P.O.# 8400

Lab Use Only
Lot #:
Storage Location
Work Order #:

CUSTODY RECORD

Relinquished by Sampler: Doug Ford	Relinquished by:	Relinquished by:
Date: 5/24/90	Date	Date: 5/24/90
Time: 9:20AM	Time	Time: 9:20
Received by:	Received by:	Received by Laboratory:
Way bill #		

APPENDIX D

GROUNDWATER TECHNOLOGY INC.
WELL: SHELL WESTERN E&P INC.
FIELD: HUNTINGTON BEACH, CA
DRY SIEVE ANALYSIS
NOVEMBER 30, 1989 FILE 13374

PETROLEUM TESTING SERVICE, INC.

12051 RIVERA RD. • SANTA FE SPRINGS, CA 90670-2289

TELEPHONE (213) 698-0081 • PANAFAX (213) 693-0947

November 30, 1989

Douglas Ford
Groundwater Technology, Inc.
20000/200 Mariner Avenue
Torrance, CA 90503-1670

Dear Mr. Ford:

Re: Sieve Analysis
File No. 13374

Enclosed is the final report for the dry sieve analysis tests conducted on the Huntington Beach, Shell Western E & P, Inc. samples you sent to us. Laboratory procedures have been included for your reference.

We appreciate this opportunity to be of service and trust these data prove beneficial in the development of this project.

Sincerely,

Petroleum Testing Service, Inc.

Roger D Lucich

For Peter T. Schuyler
President

Encl.

PTS:rdl

PETROLEUM TESTING SERVICE, INC.
12051 RIVERA ROAD
SANTA FE SPRINGS, CA 90670-2289

File: 13374
Date: November 1989

Project: Shell Western E&P
Location: Huntington Beach
County: Orange
State: California

Client: Groundwater Technology, Inc.

DRY SIEVE ANALYSIS

1. Extract sample with toluene (24 hours).
2. Vacuum dry at 150°F.
3. Disaggregate to grain size using wooden mortar and pestle.
4. Split sample to ~10 - 15 grams, weigh to the nearest 0.01 gram.
5. Place split sample into sieve shaker and run for approximately 30 minutes. The retained sieve fractions from each screen are weighed to the nearest 0.01 gram and recorded. Report data.

PETROLEUM TESTING SERVICE, INC.
DRY SIEVE ANALYSIS

GROUNDWATER TECHNOLOGY INC.

FILE No.: 13374
WELL: SHELL WESTERN E&P INC.
FIELD: HUNTINGTON BEACH, CA
DEPTH: G-TW3-25
DATE: NOVEMBER 30, 1989

OPENING		PHI OF	U.S.	SAMPLE WEIGHTS	RETAINED WEIGHT	CUMULATIVE WEIGHT %
INCHES	MILLIMETERS	SCREEN	NO.	GRAMS	PERCENT	RETAINED
.1873	4.757	-2.25	4	0.000	0.00	0.00
.1114	2.828	-1.50	7	.160	1.24	1.24
.0787	2.000	-1.00	10	.040	.31	1.55
.0557	1.414	-.50	14	.170	1.31	2.86
.0394	1.000	0.00	18	.250	1.93	4.79
.0278	.707	.50	25	.540	4.17	8.96
.0197	.500	1.00	35	.960	7.42	16.38
.0139	.354	1.50	45	1.370	10.59	26.97
.0098	.250	2.00	60	1.970	15.22	42.19
.0070	.177	2.50	80	2.950	22.81	65.00
.0049	.125	3.00	120	2.410	18.62	83.62
.0035	.088	3.50	170	1.370	10.59	94.21
.0025	.063	4.00	230	.460	3.55	97.76
.0017	.044	4.50	325	.170	1.31	99.07
.0015	.037	4.75	400	.070	.54	99.61
			PAN	.050	.39	100.00
TOTALS				12.940	100.00	100.00

CUM. WT.%	PHI VALUES	INCHES	MILLIMETERS
10.0	.57	.0265	.6736
40.0	1.93	.0103	.2628
50.0	2.17	.0087	.2220
90.0	3.30	.0040	.1014

MEASURE	TRASK (mm)	INMAN (phi)	FOLK and WARD (phi)	GRAIN SIZE DESCRIPTION* (Wentworth Scale)
MEDIAN	.222	2.1712	2.1712	Fine sand
MEAN	.262	1.9962	2.0545	Medium sand
SORTING	.389	1.0218	1.0542	
SKEWNESS	1.123	-.1713	-.1841	
KURTOSIS	.201	.7548	1.0794	

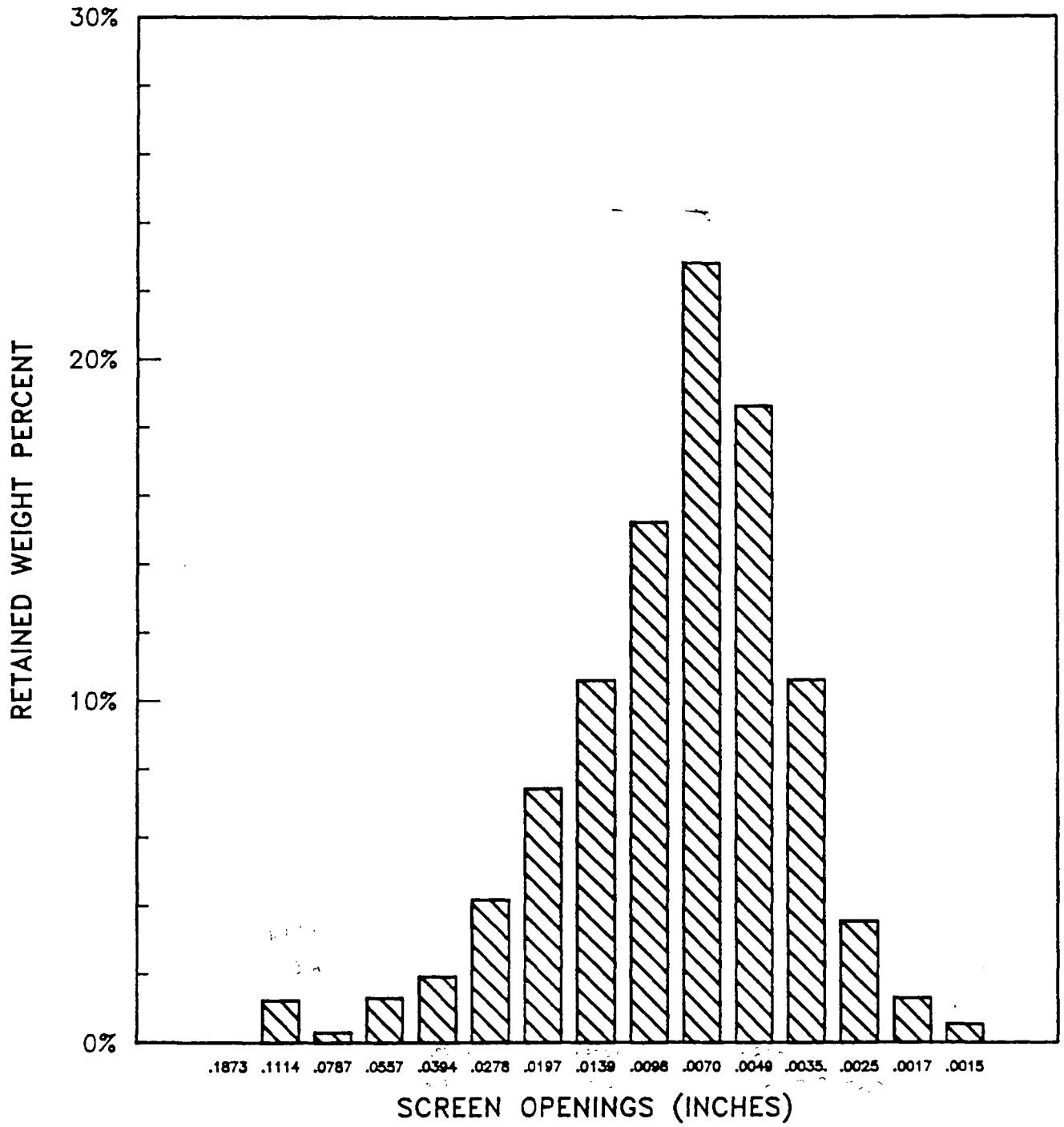
* Based on grain size determined by Trask method.

PETROLEUM TESTING SERVICE, INC.

DRY SIEVE ANALYSIS

GROUNDWATER TECHNOLOGY INC.

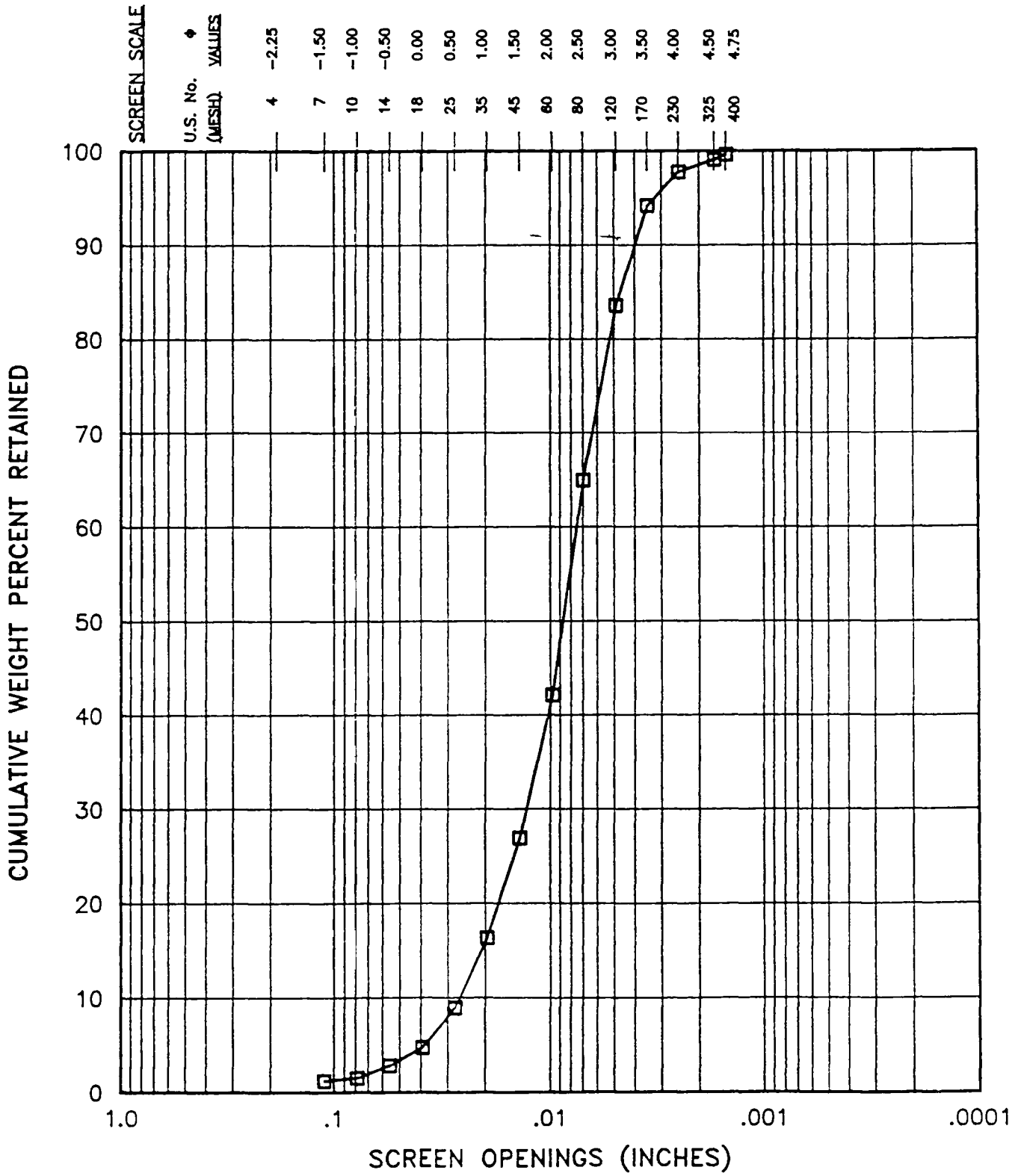
FILE No.:	13374
WELL:	SHELL WESTERN E&P INC.
FIELD:	HUNTINGTON BEACH, CA
DEPTH:	G-TW3-25
DATE:	NOVEMBER 30, 1989



PETROLEUM TESTING SERVICE, INC.

DRY SIEVE ANALYSIS

Client:	GROUNDWATER TECHNOLOGY INC.	File:	13374
Well:	SHELL WESTERN E&P INC.	Date:	NOVEMBER 30, 1989
Field:	HUNTINGTON BEACH, CA	Depth:	G-TW3-25



PETROLEUM TESTING SERVICE, INC.
DRY SIEVE ANALYSIS

GROUNDWATER TECHNOLOGY INC.

FILE No.: 13374
WELL: SHELL WESTERN E&P INC.
FIELD: HUNTINGTON BEACH, CA
DEPTH: G-TW3-40
DATE: NOVEMBER 30, 1989

OPENING		PHI OF	U.S.	SAMPLE WEIGHTS	RETAINED WEIGHT	CUMULATIVE WEIGHT %
INCHES	MILLIMETERS	SCREEN	NO.	GRAMS	PERCENT	RETAINED
.1873	4.757	-2.25	4	0.000	0.00	0.00
.1114	2.828	-1.50	7	0.000	0.00	0.00
.0787	2.000	-1.00	10	0.000	0.00	0.00
.0557	1.414	-.50	14	.030	.26	.26
.0394	1.000	0.00	18	.110	.95	1.21
.0278	.707	.50	25	.290	2.50	3.71
.0197	.500	1.00	35	.960	8.29	12.00
.0139	.354	1.50	45	2.060	17.79	29.79
.0098	.250	2.00	60	3.530	30.48	60.27
.0070	.177	2.50	80	2.500	21.59	81.86
.0049	.125	3.00	120	1.440	12.44	94.30
.0035	.088	3.50	170	.400	3.45	97.75
.0025	.063	4.00	230	.130	1.12	98.87
.0017	.044	4.50	325	.060	.52	99.39
.0015	.037	4.75	400	.040	.35	99.74
			PAN	.030	.26	100.00
TOTALS				11.580	100.00	100.00

CUM. WT.%	PHI VALUES	INCHES	MILLIMETERS
10.0	.88	.0214	.5436
40.0	1.67	.0124	.3148
50.0	1.83	.0111	.2810
90.0	2.83	.0055	.1409

MEASURE	TRASK (mm)	INMAN (phi)	FOLK and WARD (phi)	GRAIN SIZE DESCRIPTION* (Wentworth Scale)
MEDIAN	.281	1.8315	1.8315	Medium sand
MEAN	.293	1.8492	1.8433	Medium sand
SORTING	.508	.7368	.7508	
SKEWNESS	.970	.0240	.0152	
KURTOSIS	.237	.7126	1.0600	

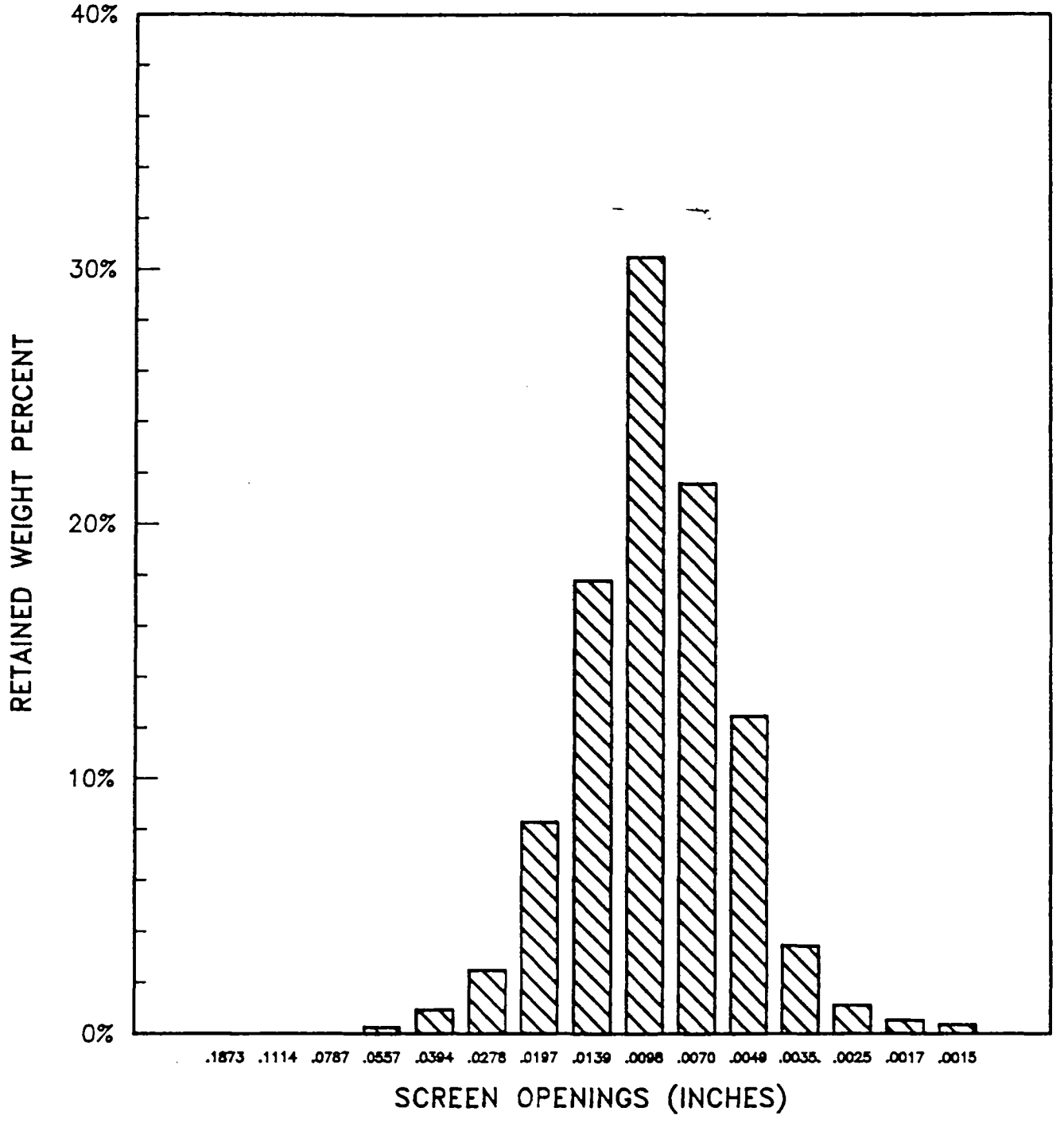
* Based on grain size determined by Trask method.

PETROLEUM TESTING SERVICE, INC.

DRY SIEVE ANALYSIS

GROUNDWATER TECHNOLOGY INC.

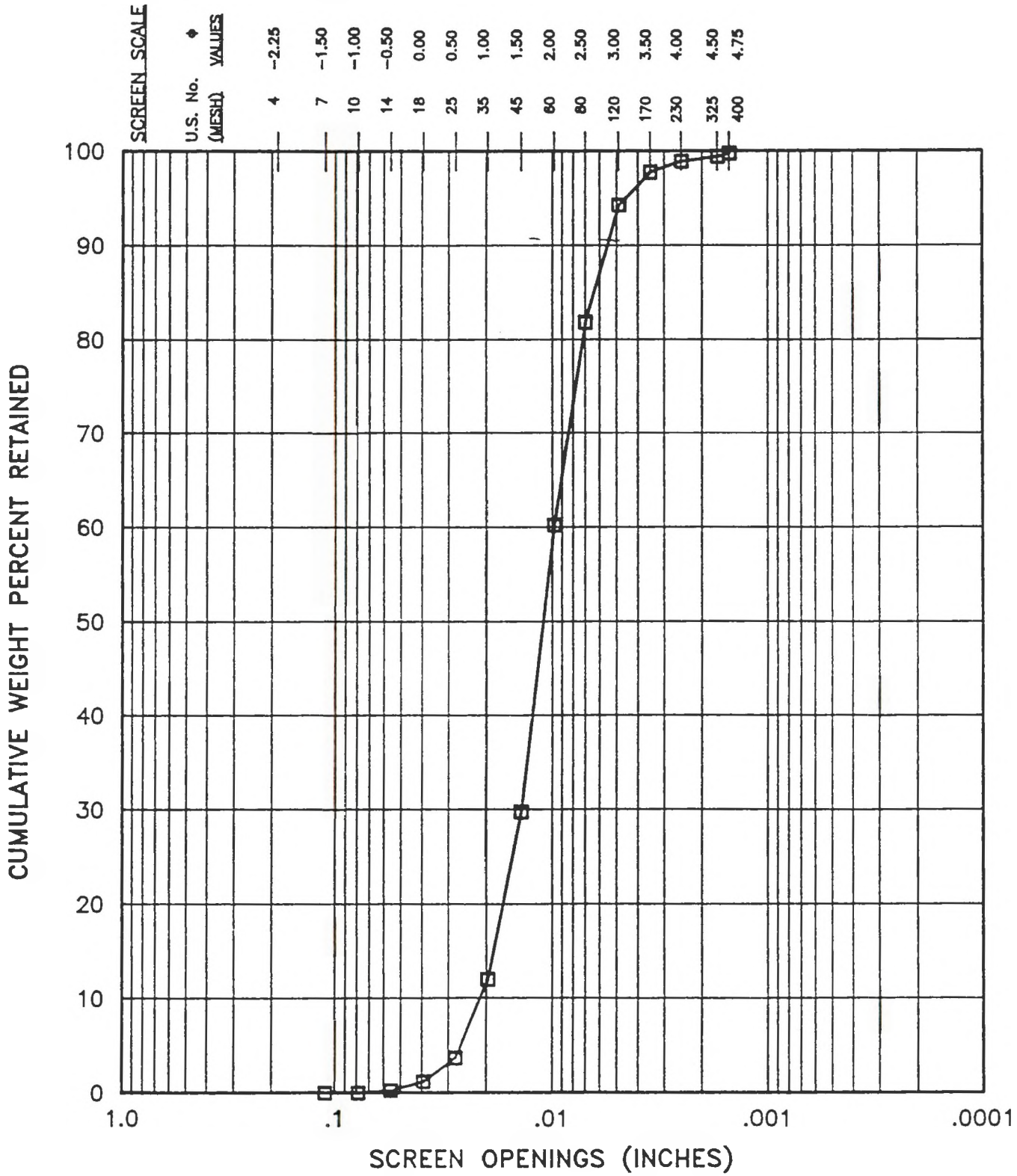
FILE No.:	13374
WELL:	SHELL WESTERN E&P INC.
FIELD:	HUNTINGTON BEACH, CA
DEPTH:	G-TW3-40
DATE:	NOVEMBER 30, 1989



PETROLEUM TESTING SERVICE, INC.

DRY SIEVE ANALYSIS

Client:	GROUNDWATER TECHNOLOGY INC.	File:	13374
Well:	SHELL WESTERN E&P INC.	Date:	NOVEMBER 30, 1989
Field:	HUNTINGTON BEACH, CA	Depth:	G-TW3-40



APPENDIX E

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801-00
Work Order Number: T911224
Report Issue Date: Dec. 14, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 11-20-89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 248.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou/MS

Rebecca Hsu-Chou
Laboratory Director

Project Number: 2163251801-00
Work Order Number: T911224
Report Issue Date: Dec. 14, 1989

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline and Stoddard Solvent in Water
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A	3A*	4A
Client Identification		GTW1	GTW2	GTW3	GTW4
Date Sampled		11-17-89	11-17-89	11-17-89	11-17-89
Date Analyzed		11-29-89	11-29-89	11-29-89	11-29-89
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	5.0	110	<0.5
Toluene	0.5	<0.5	<0.5	330	<0.5
Ethyl Benzene	0.5	<0.5	<0.5	290	<0.5
Xylene (total)	0.5	<0.5	<0.5	1100	<0.5
BTEX (total)	0.5	<0.5	5.0	1800	<0.5
Misc. Hydrocarbons[b]	1	<1	3	1500	<1
TPH as Gasoline	1	<1	<1	3300	<1
TPH as Stoddard Solvent	1	<1	8	<1	<1

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

* The Chromatogram suggest that the sample contains heavier hydrocarbon than stoddard solvent.

GTEL ENVIRONMENTAL LABORATORIES, INC.

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76- 1060

Project Manager: Bill Girolamo
Phone #: (213) 371-1394
FAX #: EX. 351
Address: 20000 Mariner Dr. Suite 200 Torrance CA. 90503
Site location: 20101 Golden West Huntington Beach Production Unit
Project Number: 216-325-1801-00
Project Name: SWEPI

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW1	GW		4	X					X			X			11/17/89	11:35
GTW2	GW		4	X					X			X			11/17/89	11:45
GTW3	GW		6	X					X			X			11/17/89	11:55
GTW4	GW		3	X					X			X			11/17/89	12:10

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☒ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐	
	X																X	8015 Stoddards
	X																X	
	X																X	
	X																X	
										H.S. 11/31/89								

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER _____ (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: Run for Stoddard Solvent Also.

Lab Use Only
Lot #:

Storage Location
Work Order #:

CUSTODY RECORD

Relinquished by Sampler: Doug Ford — Date 11/20/89 Time 8:15 a.m. — Received by:
Relinquished by: — Date — Time — Received by:
Relinquished by: — Date — Time — Received by Laboratory: — Way bill #
11/20/89 6:15 a.m.

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801-00-5
Work Order Number: T912187
Report Issue Date: Dec. 28, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 12/19/89. The samples were received and analyzed as indicated on the chain of custody, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 248.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Water
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A		
Client Identification		GTW4	GTW5		
Date Sampled		12/19/89	12/19/89		
Date Analyzed		12/20/89	12/20/89		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5		
Toluene	0.5	<0.5	<0.5		
Ethyl Benzene	0.5	<0.5	<0.5		
Xylene (total)	0.5	<0.5	<0.5		
BTEX (total)	0.5	<0.5	<0.5		
Misc. Hydrocarbons[b]	1	21	3		
TPH as Gasoline	1	21	3		
Detection Limit Multiplier		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

b Summation of all unknown C_4 to C_{12} hydrocarbons.

GTEL ENVIRONMENTAL LABORATORIES, INC

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-6205

Project Manager: Bill Colamo

Phone #: (213) 371-1394 Ext. 351

FAX #:

Address: 20000 Mariner, Suite 200 Torrance, CA. 90503

Site location: 20101 Golden West St., Huntington Beach

Project Number: 216-325-1801-00-5

Project Name: SWEPT II

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	H2SO4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW4	1A		4	X					X			X			12/19/89	12:20 PM
GTW5	2-A.		2	X					X			X			12/19/89	12:23 PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
X	X																
X	X																

EH 12/20/89

CUSTODY RECORD

Relinquished by Sampler: Doug Ford	Received by:	Time	Date
Relinquished by:	Received by:	Time	Date
Relinquished by:	Received by Laboratory:	Time	Date

Time: 3:00 PM
Date: 12/19/89

Way bill #

12/19/89

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER ___ ___ (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

Lab Use Only

Storage Location

Lot #:

Work Order #:

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Avenue
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801-01
Work Order Number: U0-06-095
Report Issue Date: June 14, 1990

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000/200 Mariner Ave.
Torrance, Ca. 90503

Dear Mr. Girolamo.

Attached please find the analytical results for the samples received by GTEL on 06/06/90. The samples were received and analyzed as indicated on chain of custody number 76-6219, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the California State Department of Health Services under certificate number E723.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou 154
Rebecca Hsu-Chou
Laboratory Director

Project Number: 2163251801-01
Work Order Number: U0-06-095
Report Issue Date: June 14, 1990

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Water
EPA Methods 5030, 8020 and modified 8015[a]

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.

GTEL Sample Number		01			
Client Identification		GTW5			
Date Sampled		06/05/90			
Date Analyzed		06/09/90			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	3800			
Toluene	0.5	13000			
Ethylbenzene	0.5	4700			
Xylene, total	0.5	29000			
BTEX, total	0.5	51000			
TPH as gasoline	100	80000			
Detection limit multiplier		50			

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76- 6219

Project Manager: Bill Girolamo
Phone #: (213) 371-1394 Ext. 351
FAX #:

Address: 20000/200 Mariner Torrance CA. 90503
Site location: 20101 Golden West Huntington Beach

Project Number: 216-325-1801-01
Project Name: SW EPI II

I attest that the proper field sampling procedures were used during the collection of these samples.
Sampler Name (Print): DOUG FORD

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW5		1A	4	X					X			X			6/5/90	7:40 PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐	
Pm	X									1								HS 6/8/90

CUSTODY RECORD

Relinquished by Sampler:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by Laboratory:
Doug Ford					Joey Fuller
Date 6/6/90	Date 6/6/90	Date	Date	Date	Date 6/6/90
Time 9:50 AM	Time	Time	Time	Time	Time 9:50 AM

Way bill #

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER 10 (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)
CO-06-095

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:
P.O. 84168

Lab Use Only
Storage Location
Lot #:
Work Order #:

APPENDIX F

GROUNDWATER TECHNOLOGY, INC.

FIELD SURVEY DATA

CLIENT: Shell Western Exploration & Production

LOCATION: 20101 Golden West, Huntington Beach

JOB#: 216-325-1801-00

DATE: 11/17/89

STA.	B.S.	I.H.	F.S.	CASING ELV.	ELV. OF GRADE	D.T.P.	D.T.W.	P.T.	GW.E.	REMARKS
TW1		4.86		34.895	35.08	--	32.48	--	2.42'	8:30 a.m.: No odor or product sheen
GTW2				34.87	35.18	--	32.41	--	2.46'	8:32 a.m.: No odor or product sheen
TW3				34.53	34.89	--	32.09	--	2.44'	8:35 a.m.: Moderate to strong odor. No measurable product or sheen.
BSI					35.68		-	-		
2					35.94					
PI1					35.29					
2					35.29					
3					35.45					
PI4					35.75					
1					34.88					
BG2					34.987					
G1					34.79					
2					34.80					
VT1					34.99					
T2					34.86					
T3					34.89					
VT4					34.68					
T5					34.57					

All elevations by BBSI Surveying Engineers, Irvine.

Benchmark elevation on Pacific Coast Highway = 39.726 feet above sea level.

All elevations are ground/grade elevations, unless noted otherwise.

EXPLANATIONS:

STA.=STATION OR WELL NUMBER
B.S.=BACKSIGHT TO KNOWN ELEVATION
I.H.=INSTRUMENT HEIGHT
F.S.=FORESIGHT
ELV.=ELEVATIONS (casing top and grade/asphalt) above sea level
D.T.P.=DEPTH TO PRODUCT FROM SURFACE
D.T.W.=DEPTH TO WATER FROM SURFACE (casing top)
P.T.=PRODUCT THICKNESS
GW.E=GROUNDWATER ELEVATION

GROUNDWATER TECHNOLOGY, INC.

FIELD SURVEY DATA

CLIENT: S.W.E.P.I. II

LOCATION: 20101 Golden West, Huntington Beach

JOB#: 214-325-1801-01

DATE: 6/5/90

STA.	B.S.	I.H.	F.S.	CASING ELV.		D.T.P.	D.T.W.	P.T.	GW.E.	REMARKS
GTW1				34.895		--	33.00	--	1.895	1:03 pm
GTW2				34.87		--	32.94	--	1.93	1:05 pm
GTW3	4.82			34.53		--	32.60	--	1.93	1:08 pm Moderate to Strong Hydro. Odor
GTW4			5.03	34.32		--	32.45	--	1.87	1:00 pm
GTW5			4.25	35.10		--	33.16	--	1.94	1:10 pm Strong Hydrocarbon Odor

Survey tied in GTW4 and GTW5 casing top elevations to known elevation at GTW3.

Elevation of GTW1, GTW2, and GTW3 surveyed in by B.B.S.I. Engineers, Irvine.

EXPLANATIONS:

STA.=STATION OR WELL NUMBER

B.S.=BACKSIGHT TO KNOWN ELEVATION

I.H.=INSTRUMENT HEIGHT

F.S.=FORESIGHT

ELV.=ELEVATIONS CASING ELV. B.S. + (B.S.-F.S.)

D.T.P.=DEPTH TO PRODUCT FROM SURFACE

D.T.W.=DEPTH TO WATER FROM: TOP OF CASING

P.T.=PRODUCT THICKNESS

GW.E=GROUNDWATER ELEVATION

SUMMARY OF WELL LEVELS WITH TIME OVER A TWELVE HOUR PERIOD

OBSERVED ON MAY 23, 1990

WELL #	DTW	TIME	COMMENTS
GTW1	33.00'	9:35 a.m.	Measurements from top of well casings.
GTW2	32.95'	9:38 a.m.	
GTW3	32.61'	9:42 a.m.	
GTW4	32.49'	9:27 a.m.	
GTW1	33.00'	1:48 p.m.	
GTW2	32.95'	1:46 p.m.	
GTW3	32.61'	1:44 p.m.	
GTW4	32.48'	1:51 p.m.	
GTW1	33.00'	7:58 p.m.	
GTW2	32.95'	8:03 p.m.	
GTW3	32.60'	8:10 p.m.	
GTW4	32.48'	7:53 p.m.	

APPENDIX G

EFFECTIVE RADIUS OF SOIL VENT SYSTEM

A mathematical model, based on Darcy's Radial Gas Flow Equation, is used to estimate the effective radius of the soil venting system. The model takes the following parameters into consideration: permeability of the soil matrix, viscosity of the air stream, effective vertical interval, flow rate, and available drawdown at the well head.

Assuming that the air stream flows radially toward the extraction well and the Ideal Gas Law applies, the pressure P at a distance r from the well can be determined by the following equation:

$$P^2 - P_W^2 = (0.74)\ (q)\ (u/kh)\ \ln\ (r/r_w)$$

where

P	=	pressure at a distance r from well (psia).
P_w	=	pressure at the well bore (psia).
q	=	air flow rate (cu. ft./day).
u	=	viscosity of air stream (centipoise)
k	=	permeability of the soil matrix (darcy).
h	=	effective vertical interval (ft).
r	=	radial distance from well (ft).
r_w	=	well radius (ft).

A soil vent test was performed in order to determine the above soil parameters (k and h). Results of the test indicate a (u/kh) ranging from 0.000074 to 0.000079 (centipoise/darcy-feet) with an average value of 0.000076.

If the radius of influence is defined as the distance between the well location at which the pressure is 14.69 psia (relative to atmospheric pressure of 14.70 psia), the radius of influence can be determined by substituting P with 14.69 psia into the above equation, along with the soil and vent system parameters, and solving for r.

A Rotron 505XP regenerative blower is proposed as the air moving device in the soil vent system. It is expected that the blower will vacuum 120 cfm at a vacuum of 22 inches of water at the two extraction wells. For flow = 60 cfm, vacuum = 22 inches, well radius = 2 inches, and u/kh = 0.000076 (from test data), the radius of influence is calculated to be 18 feet.

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Drive
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Project Number: 2163251801.00-2
Work Order Number: T912063
Report Issue Date: Dec. 12, 1989

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 12/8/89. The samples were received and analyzed as indicated on the chain of custody.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number 248.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou
Laboratory Director

Project Number: 2163251801.00-2
Work Order Number: T912063
Report Issue Date: Dec. 12, 1989

Table 1

ANALYTICAL RESULTS

Purgeable Aromatics and Total Petroleum Hydrocarbons
as Gasoline in Air
EPA Method 8020/8015[1]

GTEL Sample Number		1A			
Client Identification		GTW3			
Date Sampled		12/7/89			
Date Analyzed		12/8/89			
Analyte	Detection Limit, mg/m3	Concentration, mg/m^3			
Benzene	0.5	190			
Toluene	0.5	410			
Ethyl Benzene	0.5	150			
Xylene (total)	0.5	560			
TPH as Gasoline	1	5200			
TPH as Stoddard	1	6300			

1 = Extraction by EPA Methods and 5030

GTEL ENVIRONMENTAL LABORATORIES, INC

TG-12-063

GTEL ENVIRONMENTAL LABORATORIES, INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-1177

Project Manager: Bill Girolamo Phone #: (213) 371-1394 Ext. 351

FAX #:

Address: 20000 Mariner Suite 200 Torrance, CA 90503 Site location: 20101 Golden West Blvd. Huntington Beach

Project Number: 216-325-1801-00 Project Name: SWEPI

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTOT's	115		2			X							X		12/7/89	4:40 PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
X	X															

12-11-89 TT

CUSTODY RECORD

Relinquished by Sampler:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by Laboratory:
Doug Ford					Ken Mallon
Date 12/8/89	Time 9:01 AM	Date	Time	Date 12/8/89	Time 7:12

Way bill #

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER _____ (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

Run also for Stoddard Solvent

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

Lab Use Only Storage Location

Lot #: Work Order #:

PREPARED FOR: SHELL WESTERN EXPLORATION AND PRODUCTION INC.
PO BOX 11164
5060 California Avenue
Bakersfield, CA 93389-1164

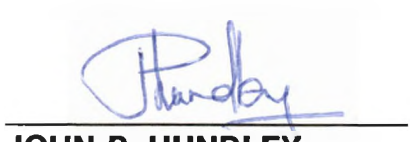
JOB STATUS REPORT
FOR WORK PERFORMED
NOVEMBER 19, 1990 THROUGH FEBRUARY 25, 1991

GAS PUMP AREA, HUNTINGTON BEACH PRODUCTION UNIT
HUNTINGTON BEACH FIELD
HUNTINGTON BEACH, CALIFORNIA
SHELL WESTERN EXPLORATION AND PRODUCTION UNIT

FEBRUARY 28, 1991

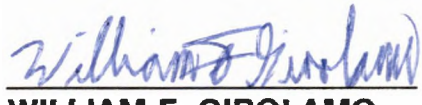
PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue
Torrance, California 90503

WRITTEN BY:

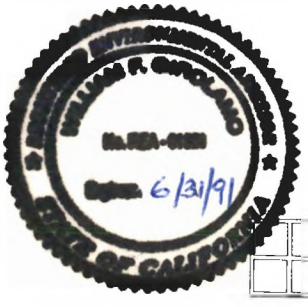


JOHN P. HUNDLEY
Geologist

REVIEWED BY:



WILLIAM F. GIROLAMO
Sr. Project Manager
R.E.A. No. 01881



216-325-1801-02
1801-R20.JH/#1

GROUNDWATER TECHNOLOGY, INC.

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RECENT WORK, PHASE II FURTHER ASSESSMENT 2

CONCLUSION 3

INTRODUCTION

This status report summarizes Phase II assessment activities performed from November 19, 1990 through February 28, 1991 at the gas pump area, Huntington Beach Production Unit, Huntington Beach Field, Huntington Beach, California (Figure 1). This document has been prepared at the request of Shell Western Exploration and Production, Inc. (SWEPI). Figure 2 is the site plan showing all sampling points used throughout Phase I and Phase II Assessment.

PREVIOUS WORK, PHASE I ASSESSMENT

SWEPI retained Groundwater Technology initially on November 9, 1989 to perform a site assessment at an existing excavation to define the extent of hydrocarbons in the soils and groundwater. The following activities were completed during Phase I.

- Three groundwater monitoring wells (GTW1 through GTW3) were installed around the perimeter of an existing excavation.

- A soil probe was installed, and a soil vapor extraction pilot test was performed. A soil gas sample was collected and analyzed for TPH and BTEX.

- A professional surveying was performed on all monitoring wells.

- Groundwater levels were measured and a groundwater gradient map was generated. Groundwater samples were collected and analyzed for TPH and BTEX.

- o A vapor monitoring well (GTV2) and an additional groundwater monitoring well (GTW4) were installed. GTW4 was sampled and analyzed for TPH and BTEX.

- o Groundwater monitoring well GTW5 was installed within an adjacent building. GTW5 was sampled and analyzed for TPH and BTEX.

- o GTW4 and GTW5 were surveyed by Groundwater Technology personnel.

RECENT WORK, PHASE II FURTHER ASSESSMENT

Shell Western Exploration and Production, Inc. retained Groundwater Technology Inc. on November 19, 1990, to further delineate the extent of hydrocarbons in the groundwater, and to determine the hydraulic characteristics of the aquifer underlying the site.

- o On December 17 and 18, 1990 a downgradient groundwater monitoring well (GTW7) and an upgradient groundwater monitoring well (GTW6) were installed. Selected soil samples were analyzed for TPH and BTEX following EPA Methods 8015 and 8020. The summary of soil chemical analysis is shown in Table 1.

- o On December 21, 1990, all on-site groundwater monitoring wells, GTW1 through GTW7 were sampled. Samples were analyzed for TPH and BTEX following EPA 8015 and 8020. The summary of groundwater chemical analysis is shown in Table 2. GTW6 and GTW7 were surveyed by Groundwater Technology personnel and plotted on the existing site map (See Figure 2).

- On January 8 and 9, 1991, a pre-pump test monitoring of the groundwater level was conducted. An aquifer pumping test was conducted on January 9, 1991.

- A revised groundwater gradient map (Figure 3), a groundwater TPH isocon map (Figure 4), a groundwater benzene isocon map (Figure 5) and a lithologic cross section (Figure 6) were prepared from acquired data.

CONCLUSION

Based on data collected from the two phases of work done at the site, Groundwater Technology concluded the following:

- Soils in the vadose (unsaturated) zone underlying the site consist of well graded sand and gravel fill to a depth of two to four feet. Below this, soils consist of organic clay and silty clay to 12 feet. Alternating beds of silty sand, sandy silt and well graded to moderately graded sand extend from 12 feet to groundwater level just below 30 feet. The capillary and saturated zones consist of well graded, medium to coarse sand.

- The vent test data indicates that the radius of influence is 15 to 18 feet depending on the size of the blower inducing vacuum at the well. The test also indicates that there is lateral and vertical influence of vacuum, across soil horizons, to shallower levels.

- Adsorbed- and dissolved-phase hydrocarbons have been identified directly upgradient from the former tank pit's southeast corner, and have been delineated downgradient and laterally.

- The highest dissolved-phase hydrocarbons in groundwater have been identified at well GTW-5 with concentrations of 53,000 parts per billion (ppb) TPH and 2,000 ppb benzene. GTW-1, GTW-2 and GTW-4 tested below detection limits for both TPH and BTEX.

- Under local hydrogeological conditions, a northwest to northerly groundwater gradient exists at the site at 0.04% to 0.07%, with groundwater at a depth of approximately 33 feet below grade.

- Groundwater level fluctuations due to tidal influence are minor in the area, with a maximum change in water level in well GTW5 of 0.04 feet recorded before the pumping test.

- Pump test data analysis revealed the following:

    1) The saturated zone is unconfined with the upper limit at the water table.
    2) Aquifer yields a minimum of five gallons per minute (gpm) with an average drawdown of two feet after one day of continuous pumping.
    3) The transmissivity of the saturated zone ranges from 7,800 to 9,100 gallons per day per foot.
    4) Hydraulic conductivity ranges from 47 to 53 feet per day. Under the natural groundwater gradient of 0.07%, the estimated groundwater seepage velocity ranges from 0.16 to 0.19 feet per day.
    5) The calculated storativity or specific yield of the saturated zone is 0.01.

TABLE 1

Summary of EPA Methods 8015/8020 (TPH/BTEX) Analysis Results on Soil Samples Collected from Borings During Well Installation in the Shell Production Unit Gas Pump Area

Sampled December 17, and 18, 1990

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
GTW-6-15	12/18/90	ND	ND	ND	ND	ND
GTW-6-30	12/18/90	ND	ND	ND	ND	ND
GTW-7-15	12/17/90	ND	ND	ND	ND	ND
GT-7-30	12/17/90	ND	ND	ND	ND	ND

- All concentrations measured in parts per million (ppm)
- ND = Levels below detection limits
- TPH = Total petroleum hydrocarbons (analyzed as gasoline)
- BTEX = benzene, toluene, ethylbenzene, and total xylenes
- Detection limits: TPH 10.0 ppm; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05 ppm

TABLE 2

Summary of Analyses Results by EPA Methods 8015/8020 (TPH/BTEX), 7421 (Total Lead), and Total Dissolved Solids (TDS) on Groundwater Samples Collected from Wells in the Shell Production Unit, Gas Pump Area

Sampled December 21, 1990, and January 9, 1991

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL LEAD*	TDS*
Trip Blank	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-1	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-2	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-3	12/21/90	110	3.5	7.8	1.0	6.9	-	-
GTW-4	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-5	12/21/90	53,000	2,000	5,500	3,300	13,000	77	9,700
GTW-6	12/21/90	300	ND	4.8	6.4	31	-	-
GTW-7	12/21/90	ND	0.5	ND	1.4	6.7	-	-

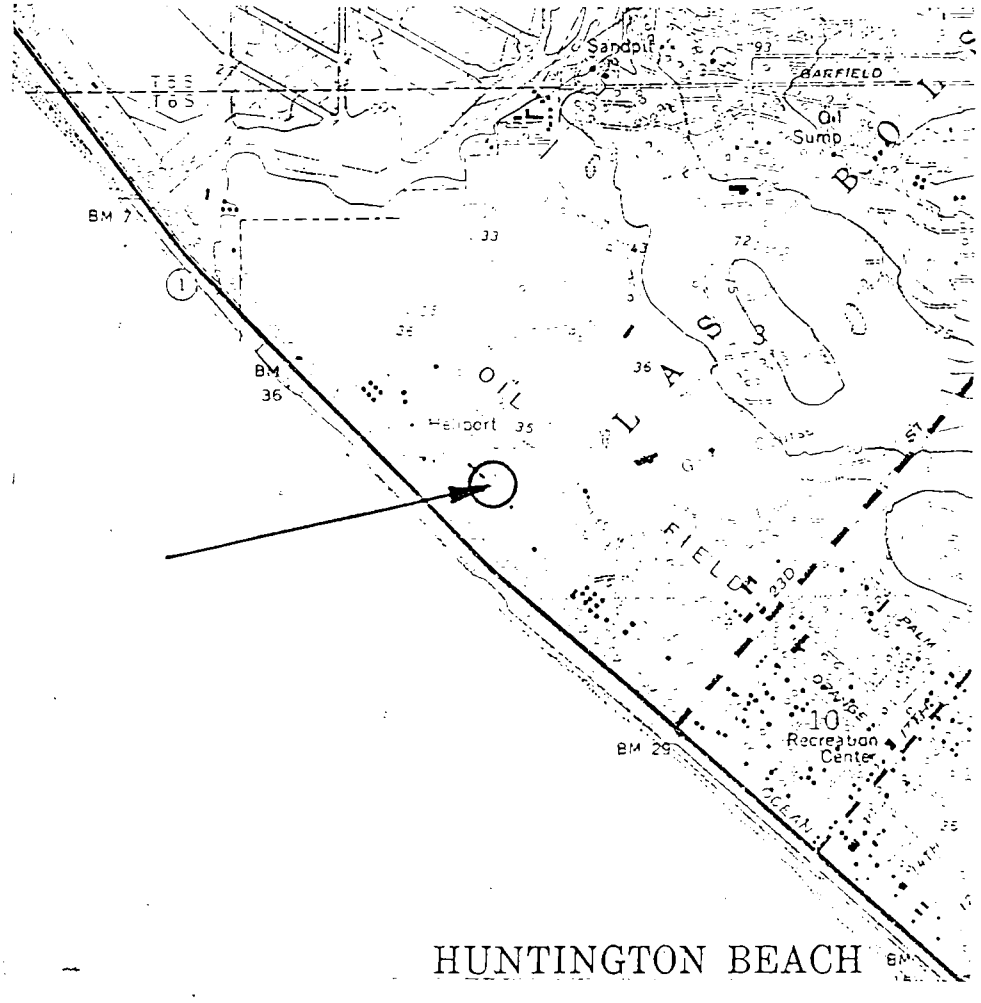
* Total lead and TDS samples collected on January 9, 1991
- Not sampled
TPH, BTEX, and total lead concentrations reported as parts per billion (ppb). TDS concentration reported as parts per million ppm.
Detection limits

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California
Job No. 216-325-1801-00

N



SITE LOCATION

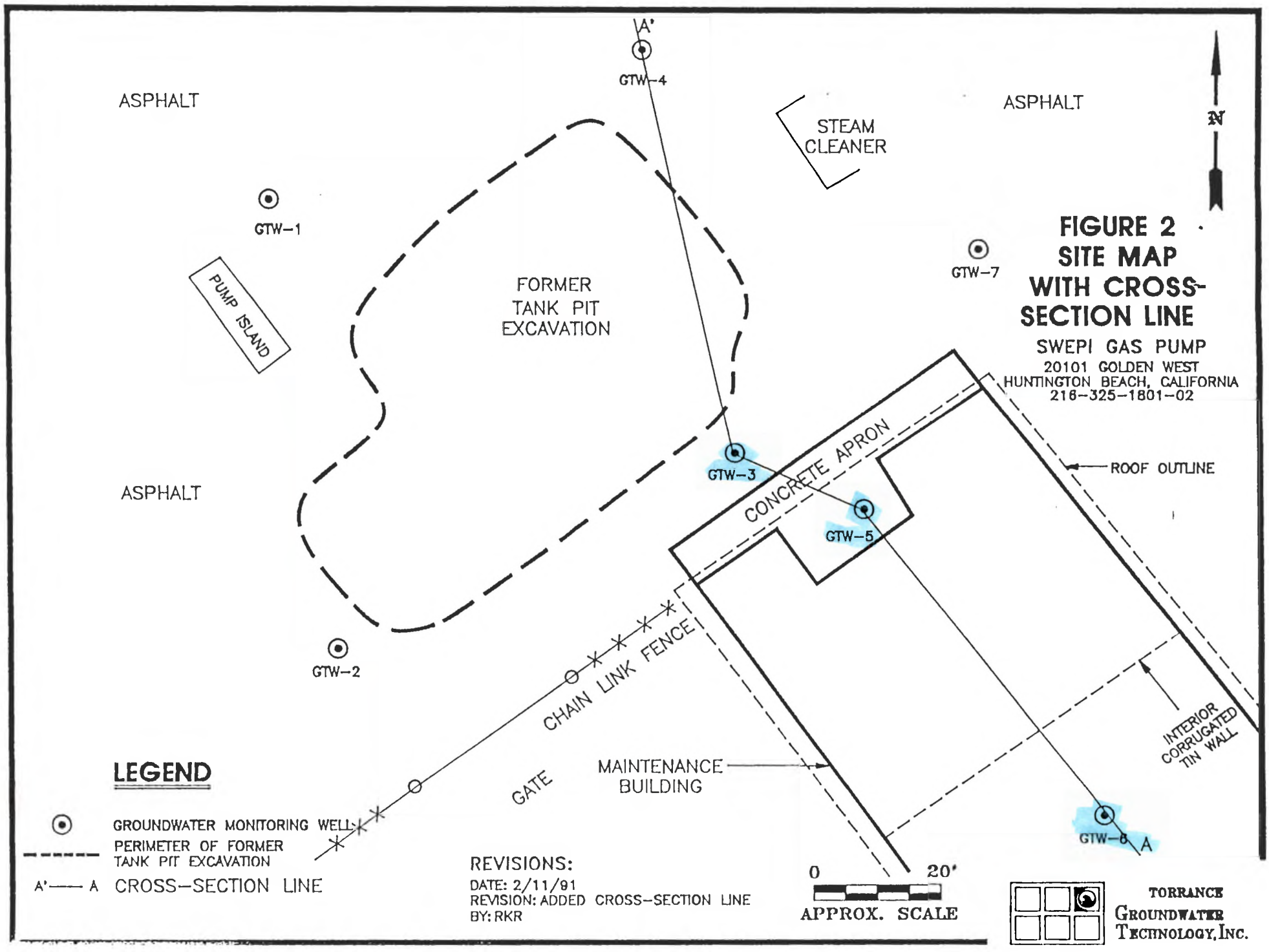
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Photorevised 1981

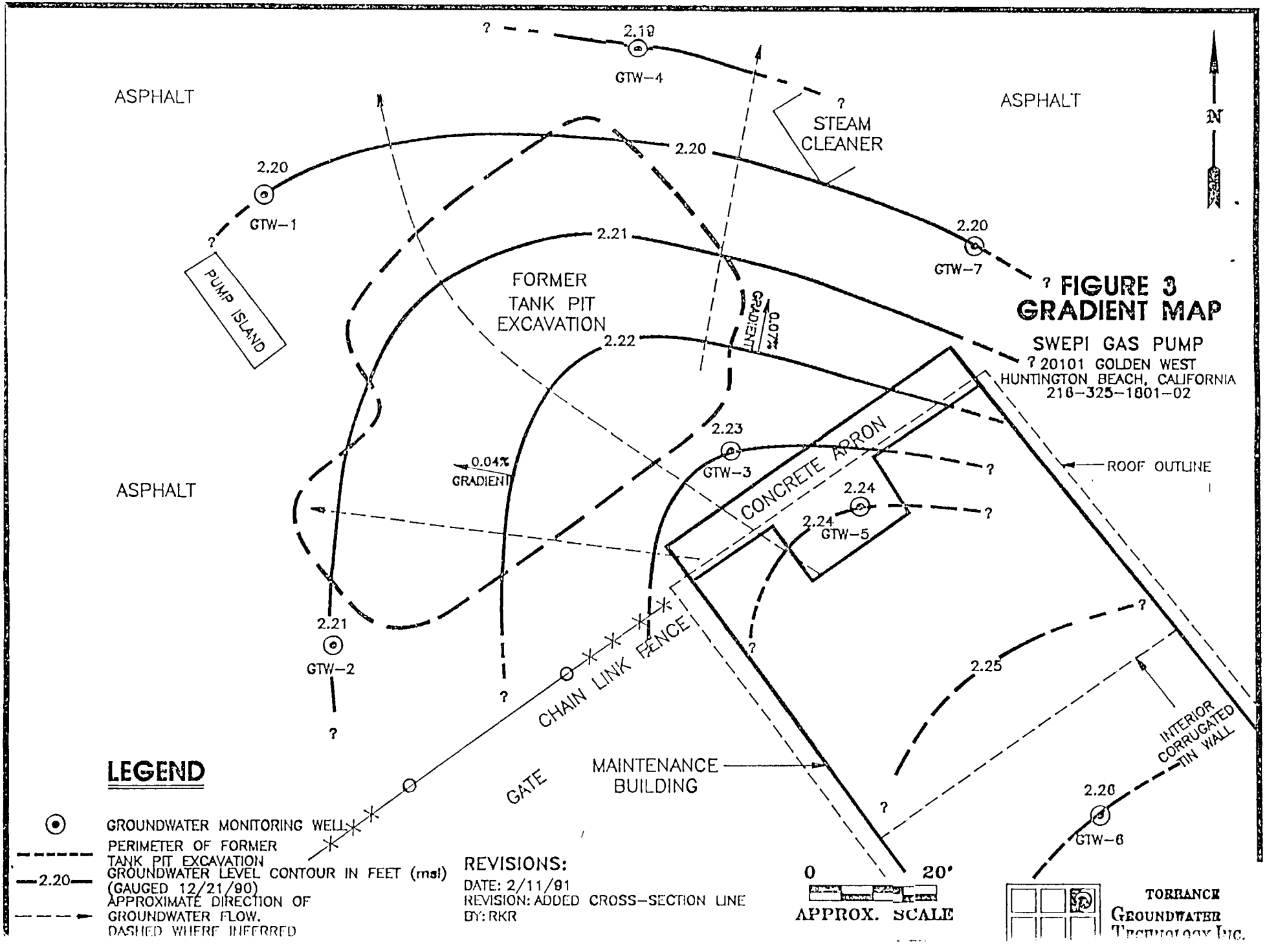
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE GROUNDWATER TECHNOLOGY, INC.


A'
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
GTW-1
GTW-7
PUMP ISLAND
FORMER TANK PIT EXCAVATION
FIGURE 2
SITE MAP WITH CROSS-SECTION LINE
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
GTW-3
CONCRETE APRON
ROOF OUTLINE
ASPHALT
GTW-5
GTW-2
CHAIN LINK FENCE
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
GTW-6
A
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
A'—— A CROSS-SECTION LINE
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE GROUNDWATER TECHNOLOGY, INC.


ASPHALT
ASPHALT
ASPHALT
2.19
GTW-4
STEAM CLEANER
2.20
2.20
GTW-1
2.21
2.20
GTW-7
PUMP ISLAND
FORMER TANK PIT EXCAVATION
0.07% GRADIENT
2.22
0.04% GRADIENT
2.23
GTW-3
CONCRETE APRON
ROOF OUTLINE
2.24
2.24
GTW-5
2.21
GTW-2
CHAIN LINK FENCE
2.25
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
2.26
GTW-6
N
FIGURE 3
GRADIENT MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
2.20 GROUNDWATER LEVEL CONTOUR IN FEET (msl) (GAUGED 12/21/90)
APPROXIMATE DIRECTION OF GROUNDWATER FLOW. DASHED WHERE INFERRED
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE GEOGROUNDWATER TECHNOLOGY INC.

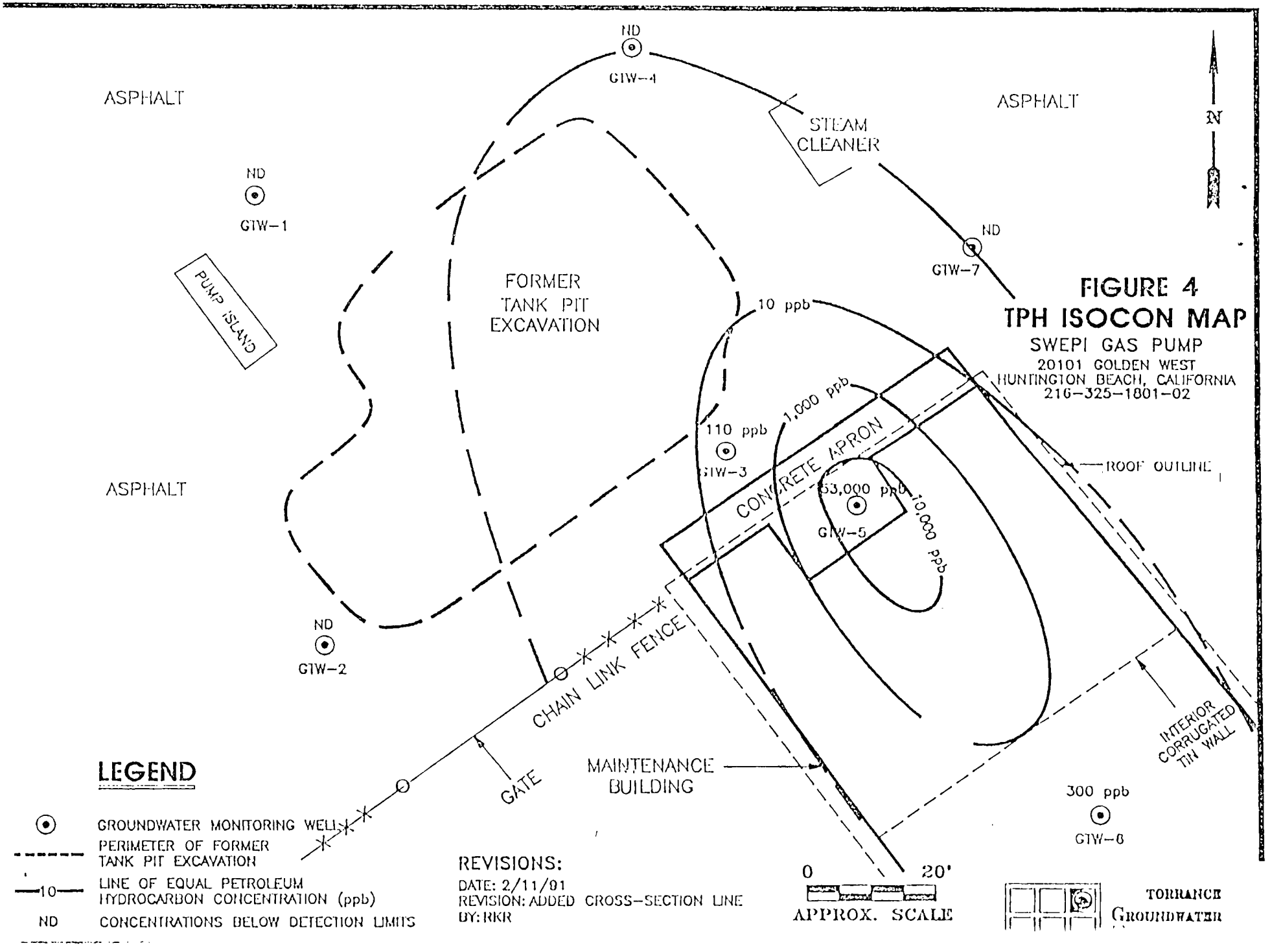


FIGURE 4
TPH ISOCON MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

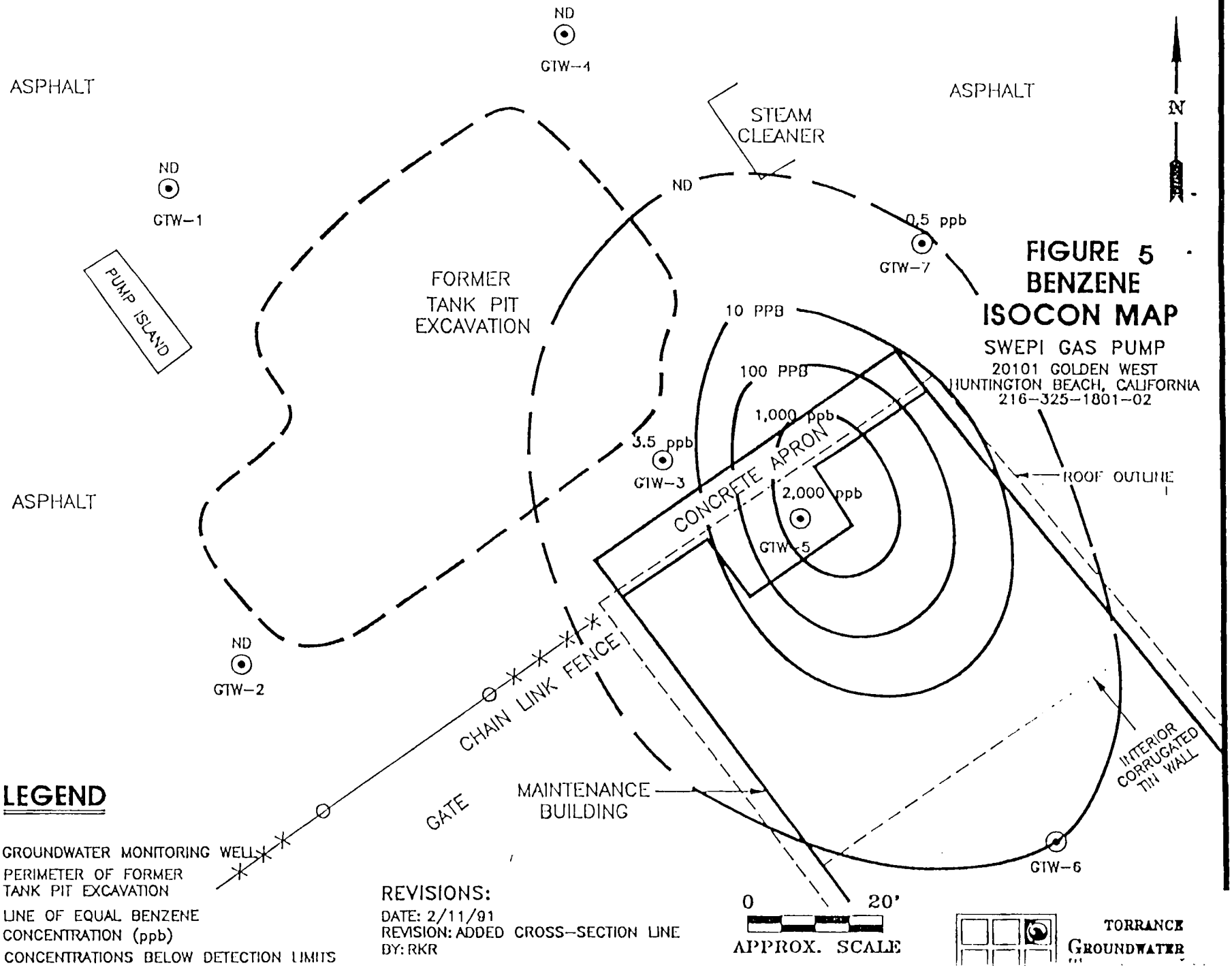
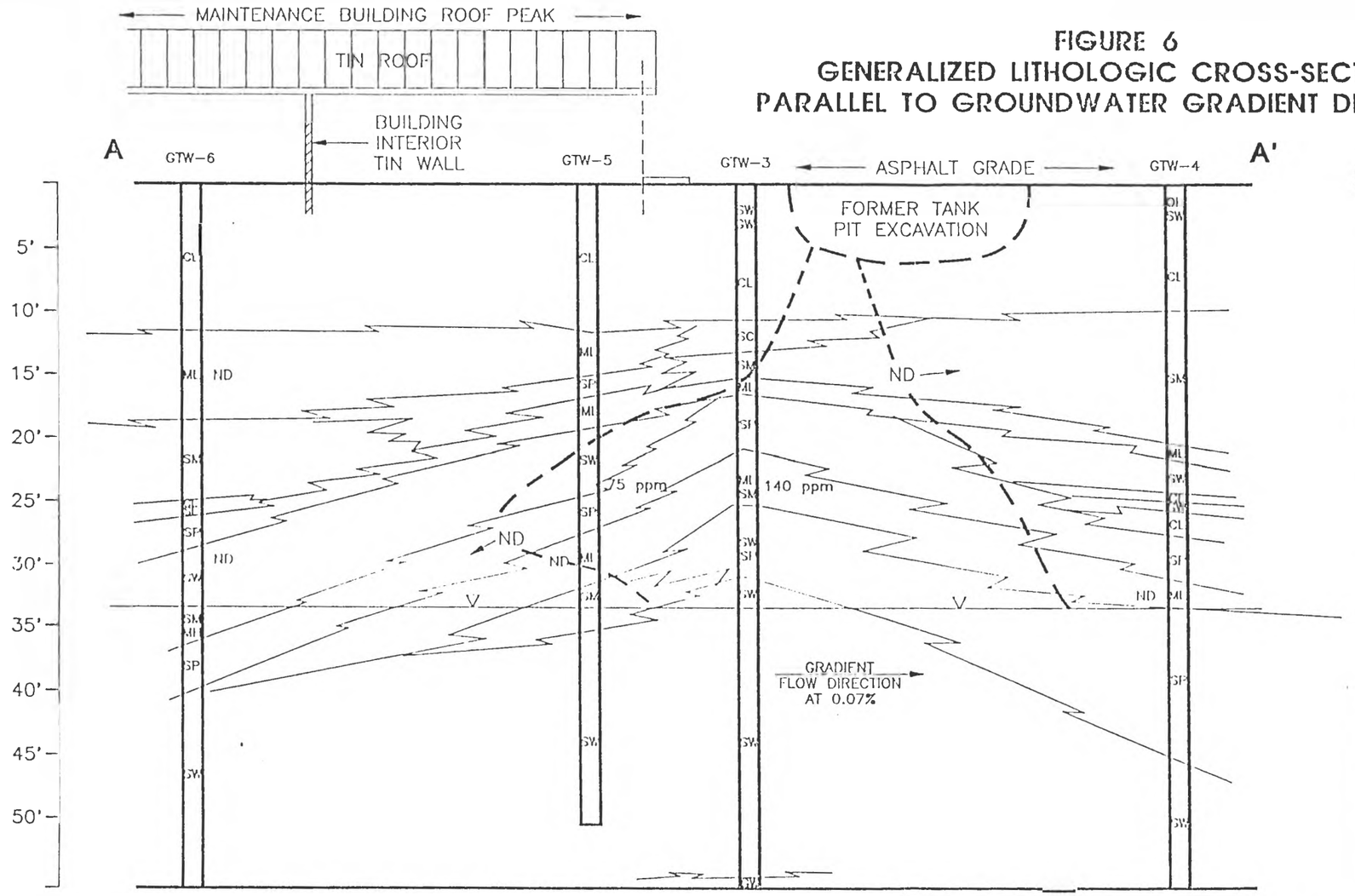

ND
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
ND
GTW-1
ND
0.5 ppb
GTW-7
PUMP ISLAND
FORMER TANK PIT EXCAVATION
10 PPB
100 PPB
1,000 ppb
3.5 ppb
GTW-3
CONCRETE APRON
ROOF OUTLINE
2,000 ppb
GTW-5
ASPHALT
ND
GTW-2
CHAIN LINK FENCE
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
GTW-6
FIGURE 5
BENZENE
ISOCON MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
10
LINE OF EQUAL BENZENE CONCENTRATION (ppb)
ND
CONCENTRATIONS BELOW DETECTION LIMITS
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE
GROUNDWATER

FIGURE 6
GENERALIZED LITHOLOGIC CROSS-SECTION
PARALLEL TO GROUNDWATER GRADIENT DIRECTION





GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

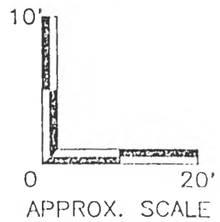
ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW:	SAND/GRAVEL MIXTURE
SP:	POORLY GRADED SAND
SW:	WELL GRADED SAND
SM:	SILTY SAND
SC:	CLAYEY SAND
ML:	CLAYEY/SANDY SILT
CL:	SILTY CLAY
CH:	VERY PLASTIC CLAY
OH:	ORGANIC CLAY
*	NOTE: WELL DIAMETERS EXAGGERATED
140 ppm	TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
– – –	TPH CONCENTRATIONS BELOW DETECTION LIMITS

REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR



APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.

PREPARED FOR: SHELL WESTERN EXPLORATION AND PRODUCTION,INC.
P.O. Box 11164
5060 California Avenue
Bakersfield, California 93389-1139

PHASE II, SITE ASSESSMENT REPORT
GAS PUMP AREA, HUNTINGTON BEACH PRODUCTION UNIT
HUNTINGTON BEACH FIELD
SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
HUNTINGTON BEACH, CALIFORNIA

MARCH 12, 1991

PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue
Torrance, California 90503

WRITTEN BY:

Doug Ford

DOUG FORD
Geologist

REVIEWED BY:

REGISTERED GEOLOGIST
Paul Parmentier
No. 3915
STATE OF CALIFORNIA

PAUL PARMENTIER
Registered Geologist
No. 3915

William F. Girolamo

ENVIRONMENTAL ASSESSOR
WILLIAM F. GIROLAMO
No. REA - 01881
Expires: 6/30/91
STATE OF CALIFORNIA

WILLIAM F. GIROLAMO
Sr. Project Manager
R.E.A. No. 01881

Daoud Alsawaf

DAOUD ALSAWAF, Ph.D
District Hydrogeologist

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APPENDIX B DRILL LOGS WITH PID READINGS AND AIR QUALITY MONITORING DATA

APPENDIX C GROUNDWATER MONITORING WELL SURVEY DATA

APPENDIX D SOIL LABORATORY ANALYSES

APPENDIX E GROUNDWATER LABORATORY ANALYSES

APPENDIX F PRE-PUMP TEST TIDAL SURVEY DATA

APPENDIX G PUMP TEST REPORT WITH FIELD MEASUREMENTS

INTRODUCTION

Shell Western Exploration and Production, Inc. (SWEPI) retained Groundwater Technology, Inc. on November 19, 1991, for the Phase II, Further site assessment, which includes the installation of additional groundwater monitoring wells in the Shell maintenance yard/gas pump area (Figures 1 and 2). One well was installed east of the former tank pit excavation, partially downgradient from the suspected release area. An additional well was installed within a maintenance and storage building upgradient from the former excavation. Groundwater Technology conducted soil and groundwater sampling, performed a pump test to determine aquifer characteristics, constructed a revised groundwater gradient map, evaluated the additional laboratory data, constructed cross-section and dissolved-phase hydrocarbon maps, redefined the vertical and lateral extent of hydrocarbons in the soils and groundwater, and prepared this summary report.

BACKGROUND

The site under investigation is located on the western edge of the Huntington Beach Mesa. The site contains a previous excavated tank pit and out lying buildings located approximately 1/2 mile northeast of the intersection of Goldenwest Street and Pacific Coast Highway. During the removal of the stoddard solvent and gasoline underground storage tanks by a previous consultant, a petroleum/solvent was noted beneath the tanks. Subsequent laboratory tests and additional borings/laboratory tests indicated adsorbed-phase hydrocarbons beyond the limits of the excavation side walls.

Groundwater Technology was retained by SWEPI (Nov. 9, 1989) for Phase I site assessment, to further define the extent of hydrocarbon levels in the soil, determine groundwater gradient and conduct a soil vent test to determine the design criteria for hydrocarbon extraction using vapor extraction methods. Five groundwater monitoring wells (GTI-1 through GTI-5), a soil vent well containing duel vapor pressure probes (GTV-1) and a soil

vent well (GTV-2) were installed. A vapor extraction pilot test was conducted to determine the design criteria for hydrocarbon extraction.

A site assessment report for Phase I was compiled by Groundwater Technology for this site:

> Groundwater Technology, Inc., June 22, 1990
> Phase I, "Site Assessment Report, Gasoline and Stoddard Solvent Tank Excavation, Huntington Beach Production Unit, Shell Western Exploration and Production, Inc., Huntington Beach California"
> Prepared for Shell Western Exploration and Production, Inc.

For a complete history of the site, please refer to Groundwater Technology's Phase I, site assessment report.

OBJECTIVES OF THE RECENT INVESTIGATION

Two more monitoring wells GTW 6 and GTW 7 were installed at this site in Phase II site assessment, to assess the lateral extent of dissolved hydrocarbons in groundwater, and to verify a previously assessed groundwater gradient during Phase I site assessment. Additionally, a pump test was conducted to determine aquifer characteristics beneath the site.

DRILLING AND WELL INSTALLATION

Groundwater Monitoring Well Outside Maintenance Building

A down-gradient groundwater monitoring well,(GTW-7) outside the maintenance building was installed on December 17, 1990 (Figure 2). The well was installed between the maintenance building and the abandoned steam cleaning unit to the northwest. The well extends from grade to 55 feet below grade. Groundwater was first encountered at 34 feet

below grade. Well GTW-7 is constructed of 30 feet of screened casing with 20 feet in groundwater. The well consists of 4-inch diameter Schedule 40 PVC casing with 0.02-inch width slots. Well GTW-7 was capped and covered, at the time of installation, with a traffic box. Further details on well construction have been provided in the form of a well schematic in Appendix A.

During the boring operation, soil samples were collected every five feet using a modified California Split-Spoon Sampler with brass ring inserts. Between sampling runs, the sampling tube was washed with TSP brand solution and rinsed successively with tap and distilled water. The samples were described and analyzed in the field for volatile organic compounds (VOC) using a photoionization detector (PID). The soil log of the boring is presented in Appendix B. One sample with the highest VOC level and one sample collected at the capillary fringe were collected for analysis of chemical adsorbed-phase hydrocarbon concentrations. Samples were sealed with plastic caps and duct tape, labeled, placed in a waterproof bag, and then on ice. The samples were delivered to GTEL Environmental Laboratories, (GTEL), Torrance, California following strict Chain-of-Custody procedures. Soil samples from the boring were analyzed for total petroleum hydrocarbons (TPH) as gasoline, and for benzene, toluene, ethylbenzene and xylenes (BTEX) following EPA Methods 8015/8020.

Groundwater Monitoring Well Inside Building

The upgradient groundwater monitoring well GTW-6 was installed inside the maintenance building on December 18, 1990 (Figure 2). The well was installed approximately 60 feet south (upgradient) from a previously installed well GTW-5 (June, 1990, Groundwater Technology assessment report). The well was constructed identically to well GTW-7, and soils were sampled and tested identically. Groundwater was first encountered at 32 feet below grade. Well construction details and lithology are presented in Appendix B.

During the installation of GTW-6, the working space occupied by the drilling rig and workers was essentially a confined space. The building interior was opened on one end by a large sliding door through which the drill rig gained entrance, and several corrugated tin side wall panels were removed, prior to the activities, for air intake. In addition to these precautionary measures to assure that adequate oxygen levels existed inside, several fans were used to push fresh outside air into the building during the drilling activities. Also, an exhaust line leading from the diesel engine of the drilling rig was extended outside the confines of the building for exhaust routing. As an added safety measure, a Lower Explosion Limit (LEL) meter was used by Groundwater Technology personnel to monitor air quality during the drilling activities. Tabled data on oxygen percentages and carbon monoxide levels have been added to Appendix B.

WELL DEVELOPMENT

On December 21, 1990, all of the groundwater monitoring wells, GTW-1 through GTW-7, were developed by over-pumping using a vacuum truck supplied by Shell Western Exploration and Production, Inc. After approximately three well volumes of water had been removed by a vacuum truck and the pH and EC had stabilized, the wells were allowed to recharge to 95 percent of their static level. Water sampling proceeded after the development of each well was finished.

Water Sampling Protocol

A sample from each well was retrieved using a teflon bailer washed with trisodium phosphate solution prior to sampling, and rinsed with tap and distilled water. New string was attached to the sampling bailer prior to each sampling run. Each sample was placed in two 40-ml vials with HCl preservative, filled to zero headspace, sealed with teflon septums and airtight caps, labeled, and placed on ice. The samples were then transported to state-certified GTEL Environmental Laboratories, Torrance, California, for analysis of TPH as gasoline, and BTEX following EPA Methods 8015/8020, respectively.

In addition to the aforementioned sampling dates and test methods, one 500 ml bottle of groundwater was collected during the beginning stages of the pump test (on January 9, 1991) from well GTW-5. The sample was sealed, labeled, and transported to state-certified GTEL Environmental Laboratories, Torrance, California, for analysis of total lead following EPA method 7421 and total dissolved solids (TDS) following Method 209B.

Surveying and Groundwater Gradient

In addition to developing the groundwater wells on December 21, 1990, the new groundwater monitoring wells were surveyed by Groundwater Technology personnel on the same day. Both of the new wells were plotted on a revised site map (Figure 2). Appendix C contains a list of well casing elevations, measured depths to groundwater, and calculated static groundwater elevations relative to sea level. Using calculated groundwater elevations, a revised groundwater gradient map was constructed (Figure 3). The new groundwater equal elevation contours show a flow direction from northwest to north in the vicinity of the former tank pit excavation. The gradient ranges from 0.04% to 0.07% in this northerly direction. The gradient constructed with the new wells confirm the previous interpretation of local groundwater gradient.

SOIL CHEMICAL ANALYSIS FOR TPH/BTEX

Four soil samples were sent to GTEL for chemical analysis of TPH (as gasoline) and BTEX following EPA Methods 8015/8020 with detection limits of 10 parts per million (ppm) and 0.05 ppm, respectively. Table 1 lists analysis results for each sample. For complete laboratory results, refer to Appendix D. As in the lithologic logs presented in Appendix A, the label GTW-6-15 refers to a soil sample collected from Groundwater Technology's boring of groundwater monitoring well #6, at a depth of 15 feet below grade.

Soil samples obtained during the drilling of groundwater monitoring wells GTW-6 and GTW-7 tested below detection limits for TPH/BTEX despite noticeable, faint, field hydrocarbon odors and elevated PID VOC levels.

GROUNDWATER ANALYTICAL RESULTS

Chemical Analysis for TPH/BTEX

Three out of the seven groundwater samples from the site tested below detection limits for TPH and BTEX (GTW-1, GTW-2, and GTW-4). The recently installed groundwater well, GTW-7, tested below detection limits for TPH but contained measurable amounts of benzene, ethyl benzene and xylenes. The remaining three wells, in closest proximity to the southeast edge of the former tank pit and directly upgradient, all contain measurable amounts of TPH (from 110 to 53,000 ppb) and BTEX (although GTW-6 contained no measurable benzene).

Table 2 summarizes the analytical results for TPH and BTEX in all seven wells. Complete laboratory results and the Chains-of-Custody are presented in Appendix E.

TPH and Benzene Concentration Maps

Based on the revised groundwater gradient and new groundwater chemical analysis, two dissolved constituent isocon maps were constructed (Figures 4 and 5). The highest sampled concentration of dissolved-phase hydrocarbons exist in groundwater at well GTW-5. The highest values on the TPH and benzene maps are located directly southeast of the edge of the former tank pit perimeter. Figure 4 indicates that the lateral and downgradient extent of dissolved hydrocarbons has been defined, and that the upgradient well, GTW-6, contains only minor dissolved concentrations.

Chemical Analysis for Total Dissolved Solids (TDS) and Total Lead

In addition to the TPH and BTEX analysis performed on the four previously described

samples, a sample from well GTW-5 was analyzed for total lead and TDS. The sample contained 77 parts per billion (ppb) Total Lead and 9,700 ppm TDS. Table 2 summarizes the laboratory results and Appendix E contains the complete laboratory results with the Chain-of-Custody.

LITHOLOGIC CROSS-SECTION AND VERTICAL EXTENT OF HYDROCARBONS

A generalized lithologic cross-section was constructed from the boring logs of wells GTW-6, GTW-5, GTW-3, and GTW-4 (Figure 6). GTW-5, GTW-3, and GTW-4, were installed earlier by Groundwater Technology (Phase I, "Site Assessment Report", June, 1990). The orientation of the cross-section is from south to north, parallel to the gradient direction, and cuts across the southeast edge of the former tank pit excavation. A "non-detect" line (for TPH and observable field hydrocarbon levels above background) has been drawn on the cross-section, extending from beneath the edge of the tank pit to the approximate depth of groundwater. This line construction was based on VOC levels above background levels, noticeable hydrocarbon vapors, and laboratory results.

The lithologic column, from grade to 20 feet into groundwater, has been separated into 3 distinct soil classification zones. In the upper zone, from grade to approximately 10 feet below grade, the soil type is an organic to silty clay. In the middle zone, from 10 to approximately 30 feet below grade, the soil types are a complex group of alternating silty sand, clayey sand, sandy to clayey silt, and poorly to well graded sand beds. The lower zone, from approximately 30 to 55 feet below grade, is essentially the upper aquifer at this site. This zone consists of fine to coarse grained, poor to well graded sands with several feet of silts and silty sands from approximately 30 to 37 feet below grade. The lower limits of this zone were not determined by the onsite drilling activities.

Under examination, the completed cross-section shows the soil lithologic types associated with the aquifer extending to a higher level in boring GTW-3 compared to other nearby borings.

SHALLOW AQUIFER PUMP TEST

Directly after the installation of groundwater monitoring wells GTW-6 and GTW-7, a one-day pump test was conducted from January 9 through January 10, 1991. Well GTW-5 was used as the pumping well, while monitoring wells GTW-3, GTW-4 and GTW-7 were used as observation wells to record changes in water levels during the test.

Pre-Test Monitoring of Tidal Influence

On January 8, 1991, before the initialization of the pump test, Groundwater Technology personnel performed overnight monitoring of the groundwater level in well GTW-5. The purpose of the test was to determine the effects of tidal influence or other background water level fluctuations before the pumping test. Appendix F contains the pre-pump test tidal survey data.

Installation of Equipment and Materials

During the period of January 8 through January 9, 1991, equipment used during the pumping test was installed in four groundwater monitoring wells. Three of the monitoring wells were used to measure and record groundwater levels during the pumping test.

Groundwater Technology personnel installed one pressure transducer in each of the three observation wells, GTW-3, GTW-4, and GTW-7. These transducers were attached separately, in-line, to an instrument capable of receiving seven signal channels simultaneously. The data-logger instrument was later attached to a computer for transferral of drawdown data.

One of the monitoring wells, GTW-5, was used as a pumping well. Prior to the initial pump test, a single line of 2" diameter PVC piping was placed on grade at the point of entry to well GTW-5, and extended to a 200 barrel holding tank supplied by Shell's production unit. This discharge line contained one check valve, one flow meter for measuring flow rates, two shut-off valves, and a sampling port to measure temperature and electrical conductivity. Water pumped from the well was discharged into a holding tank for temporary storage.

A specialized submersible pump was installed in groundwater well GTW-5. This "Sand-Handler" pump is capable of withstanding abrasion and clogging caused by fine silts and sands. As a check on the accuracy of the flow-meter, a five gallon bucket was used to monitor the flow rate throughout the test. See Appendix G for additional information.

Pump Test

On January 9, 1991, after the installation and testing of the equipment, Groundwater Technology personnel performed a pump test. Prior to pump start-up, static water levels at the pumping well (GTW-5) and the three selected observation wells (GTW-3, GTW-4 and GTW-7) were recorded at one second intervals for about three minutes. This was done by installing pressure transducers in each of the well and recording the groundwater levels before and during the pump test. After pump start-up, the initial flow rate, measured volumetrically, was about 8 gallons per minute (gpm). Static water levels were recorded, during the test, at varying time intervals during the 1,054 minutes of pumping. The pump test ended at 08:01:00 on January 10, 1991.

Adjustments in flow rate were performed using the in-line control valves to maintain a constant flow rate of 5.3 gpm. The maximum discharge rate was about 6 gpm during the early minutes of pumping and the minimum discharge rate was about 5 gpm. The electrical conductivity (EC) and temperature of the discharged water was measured during the pumping test.

Results

The maximum change in water level recorded prior to the pump test, in well GTW-5, was 0.04 feet over a 14 hour interval. Appendix F contains plotted water levels vs. time prior to the pump test.

Groundwater temperature was constant at 22 degrees centigrade throughout the test, whereas the EC showed a decline from 14,000 microhms per centimeter (micromhos/cm) during the first few minutes of pumping to 10,000 micromhos/cm after 1,000 minutes of pumping. Appendix G contains plotted EC data vs. time for well GTW-5 effluent.

The raw data recorded in the data-logger was transferred into the computer software, DATALOGR. Data was also inverted into a descending chronological order and files were transferred into GWAP software for interpretation. Data was compiled in tables and graphs. The following calculations were performed from the pump test data:

GTW-3 (first 100 minutes of pumping)

Transmissivity(T) = 7,776 gallons per day per foot (gpd/ft).

Hydraulic conductivity(K) = 353 gallons per day per square foot (gpd/sq ft).

Storativity (S)= 0.01

Aquifer condition = Unconfined aquifer with delayed gravity response.

GTW-3 (last 382 minutes of pumping)

T = 9,121 gpd/ft

K = 415 gpd/sq ft

S = 0.16

Aquifer condition = Anisotropic unconfined aquifer with delayed gravity response.

GTW-4 Due to the small magnitude of drawdown (0.08 feet) recorded during the pumping period, this particular well was not used for data interpretation.

GTW-7

T = 8,711 gpd/ft

K = 396 gpd/sq ft

S = 0.013

Aquifer condition = Anisotropic unconfined aquifer with elastic response.

Discussion of Pump Test Results

Fluctuations in groundwater level in well GTW-5 before the pump test showed that the area under investigation is effected by tidal influence. However, the maximum change in groundwater level, 0.04 feet, recorded over a 14 hour interval, was not considered large enough to be included as an adjustment in interpreting the pumping data.

The groundwater quality from well GTW-5 was that of moderately saline water with a total dissolved solid (TDS) concentration of 9,700 ppm and can be classified as non-potable water. Changes in EC and pH indicate that vertical leakage through the aquifer is possible.

The hydraulic properties of the shallow aquifer beneath the site was that of an unconfined aquifer. The recharge of this aquifer can be either vertical recharge (i.e. rain water percolating downwards) or horizontal recharge (i.e. gravitational flow of groundwater from leaking aquifers or salt water intrusion).

The hydraulic properties of the aquifer are as follows:

- Transmissivity ranges from 7,800 to 9,100 gpd/ft.
- Hydraulic conductivity ranges from 350 to 400 gpd/sq ft or 47 ft/day to 53 ft/day.

- Storativity of approximately 0.01.
- Under the natural groundwater gradient of 0.07%, the estimated groundwater seepage velocity ranges from 0.16 ft/day to 0.19 ft/day. For detailed calculations, see Appendix G.

These values are representative of a silty to fine grained sand existing under an unconfined water table condition. This standard interpretation is similar to lithology observed during drilling.

All water level data and interpretation curves are included in Appendix F.

CONCLUSIONS

Based on previous assessment, two additional groundwater monitoring wells were installed in proximity to the former tank pit excavation. In addition, an aquifer pump test was conducted in the uppermost aquifer beneath the site. Recent data analysis indicates the following:

(1) Adsorbed- and dissolved-phase hydrocarbons have been identified directly upgradient from the former tank pit's southeast corner, and have been delineated downgradient and laterally. The furthest upgradient soil and water analysis indicates no adsorbed hydrocarbons, and only minor dissolved hydrocarbons.

(2) Dissolved-phase hydrocarbons in groundwater have been identified with highest concentrations at well GTW-5. The furthest upgradient groundwater monitoring well, GTW-6, contains 300 ppb TPH and tested below detection limits for benzene. The down-gradient well, GTW-7, tested below detection limits for TP and contained minor BTEX concentrations all below state Department of Health and Safety action levels. The two wells closest to the former tank pit, GTW-3 and GTW-5, contained

110 and 53,000 ppb TPH, respectively. In addition, wells GTW-3 and GTW-5, contained 3.5 and 2,000 ppb benzene, respectively. GTW-1, GTW-2 and GTW-4 tested below detection limits for both TPH and BTEX.

(3) Analyzed concentrations of adsorbed-phase hydrocarbons in the soil samples collected from the two new well borings are below detection limits, indicating the lateral limits of hydrocarbons in soil.

(4) Under local hydrogeological conditions, a northwest to northerly groundwater gradient exists at the site at 0.04 to 0.07%, with groundwater at a depth of approximately 33 feet below grade.

(5) Groundwater level fluctuations due to tidal influence are minor in the area. The maximum change in groundwater level in well GTW-5 before the pumping test was 0.04 feet. The observed levels of drawdown, in observation wells during the pump test, were larger than the expected change due to tidal influence.

(6) Data analysis from the pump test reveals the following:

- The saturated zone is unconfined with the upper limit at the water table.
- The aquifer yields a minimum of five gallons per minute with an average drawdown of two feet after one day of continuous pumping.
- The transmissivity of the saturated zone ranges from 7,800 to 9,100 gallons per day per foot (gpd/ft) .
- The hydraulic conductivity ranges from 47 to 53 ft/day. Under the natural groundwater gradient of 0.07%, the estimated groundwater seepage velocity ranges from 0.16 ft/day to 0.19 ft/day.
- The calculated storativity or specific yield of the saturated zone is 0.01.

This report will serve as Phase II site assessment, an addition to the Phase I site assessment report prepared by Groundwater Technology, Inc for Shell Western Exploration and Production, Inc. in June, 1990. All the work described herein has been performed by Groundwater Technology, Inc., as a separate phase, in an ongoing project under contract with Shell Western Exploration and Production, Inc.

TABLE 1

Summary of EPA Methods 8015/8020 (TPH/BTEX) Analysis Results on Soil Samples Collected from Borings During Well Installation in the Shell Production Unit Gas Pump Area

Sampled December 17, and 18, 1990

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
GTW-6-15	12/18/90	ND	ND	ND	ND	ND
GTW-6-30	12/18/90	ND	ND	ND	ND	ND
GTW-7-15	12/17/90	ND	ND	ND	ND	ND
GTW-7-30	12/17/90	ND	ND	ND	ND	ND

- All concentrations measured in parts per million (ppm)
- ND = Levels below detection limits
- TPH = Total petroleum hydrocarbons (analyzed as gasoline)
- BTEX = benzene, toluene, ethylbenzene, and total xylenes
- Detection limits: TPH 10.0 ppm; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05 ppm

TABLE 2

Summary of Analyses Results by EPA Methods 8015/8020 (TPH/BTEX), 7421 (Total Lead), and Total Dissolved Solids (TDS) on Groundwater Samples Collected from Wells in the Shell Production Unit, Gas Pump Area

Sampled December 21, 1990, and January 9, 1991

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL LEAD*	TDS*
Trip Blank	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-1	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-2	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-3	12/21/90	110	3.5	7.8	1.0	6.9	-	-
GTW-4	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-5	12/21/90	53,000	2,000	5,500	3,300	13,000	77	9,700
GTW-6	12/21/90	300	ND	4.8	6.4	31	-	-
GTW-7	12/21/90	ND	0.5	ND	1.4	6.7	-	-

* Total lead and TDS samples collected on January 9, 1991
- Not sampled
TPH, BTEX, and total lead concentrations reported as parts per billion (ppb). TDS concentration reported as parts per million ppm.
Detection limits

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California
Job No. 216-325-1801-00

N



SITE LOCATION

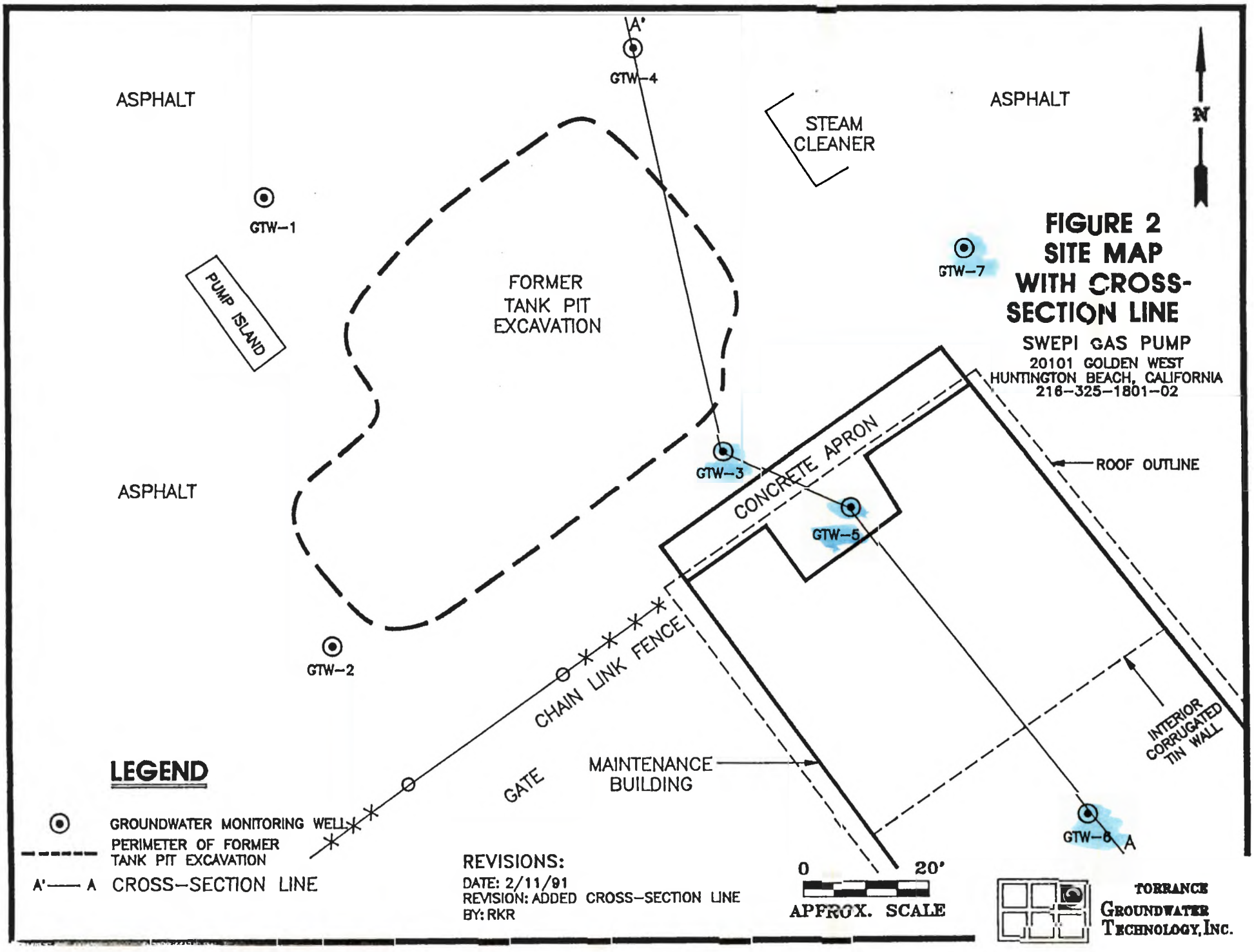
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Photorevised 1981

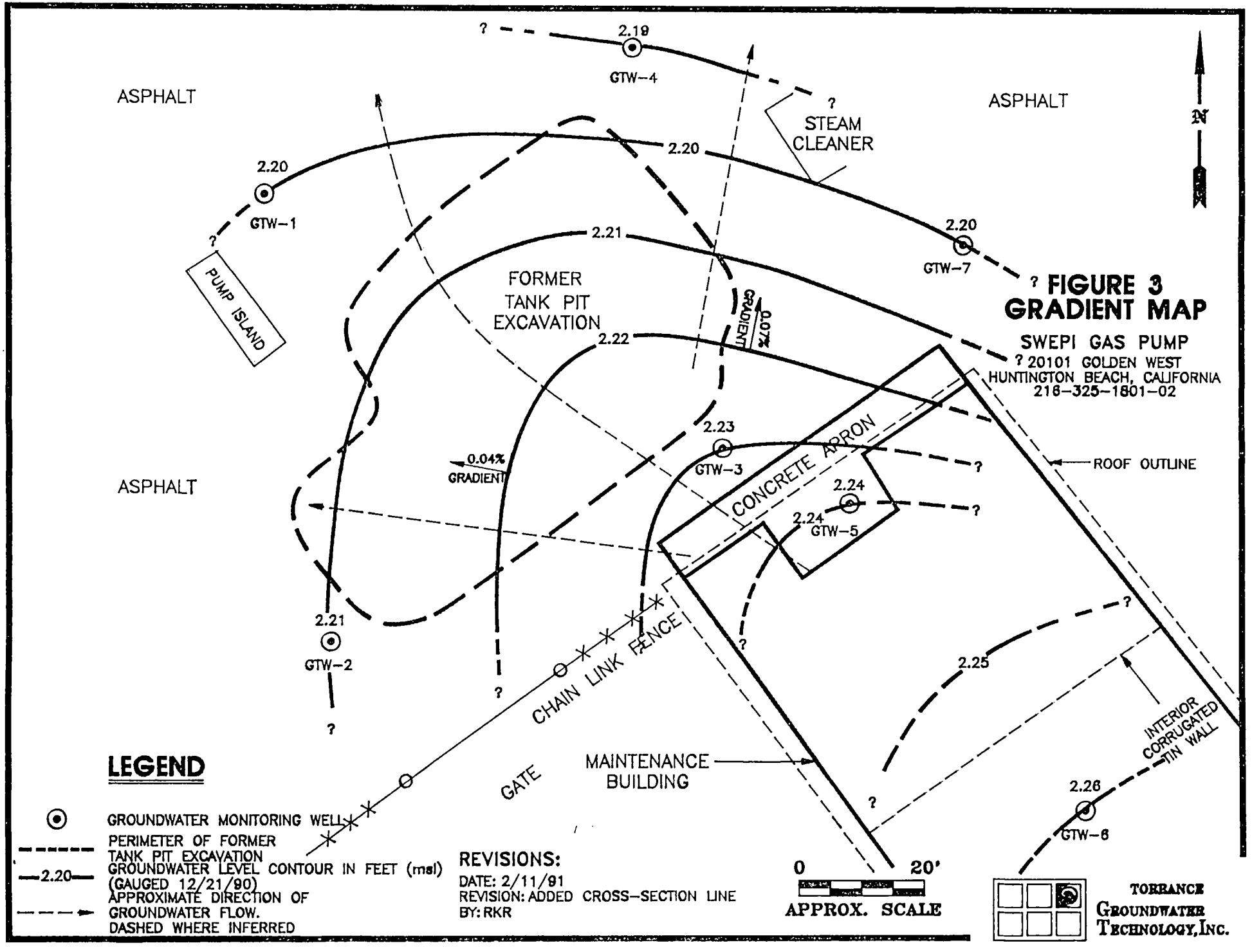
SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE
GROUNDWATER TECHNOLOGY, INC.


A'
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
GTW-1
GTW-7
PUMP ISLAND
FORMER TANK PIT EXCAVATION
FIGURE 2
SITE MAP WITH CROSS-SECTION LINE
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
GTW-3
CONCRETE APRON
ROOF OUTLINE
ASPHALT
GTW-5
GTW-2
CHAIN LINK FENCE
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
GTW-6
A
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
A'—— A CROSS-SECTION LINE
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE GROUNDWATER TECHNOLOGY, INC.


2.19
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
2.20
2.20
GTW-1
2.20
GTW-7
2.21
PUMP ISLAND
FORMER TANK PIT EXCAVATION
0.07% GRADIENT
2.22
2.23
GTW-3
0.04% GRADIENT
ASPHALT
CONCRETE APRON
ROOF OUTLINE
2.24
2.24
GTW-5
2.21
GTW-2
CHAIN LINK FENCE
2.25
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
2.26
GTW-6
FIGURE 3
GRADIENT MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
2.20 GROUNDWATER LEVEL CONTOUR IN FEET (msl) (GAUGED 12/21/90)
APPROXIMATE DIRECTION OF GROUNDWATER FLOW. DASHED WHERE INFERRED
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE GROUNDWATER TECHNOLOGY, INC.

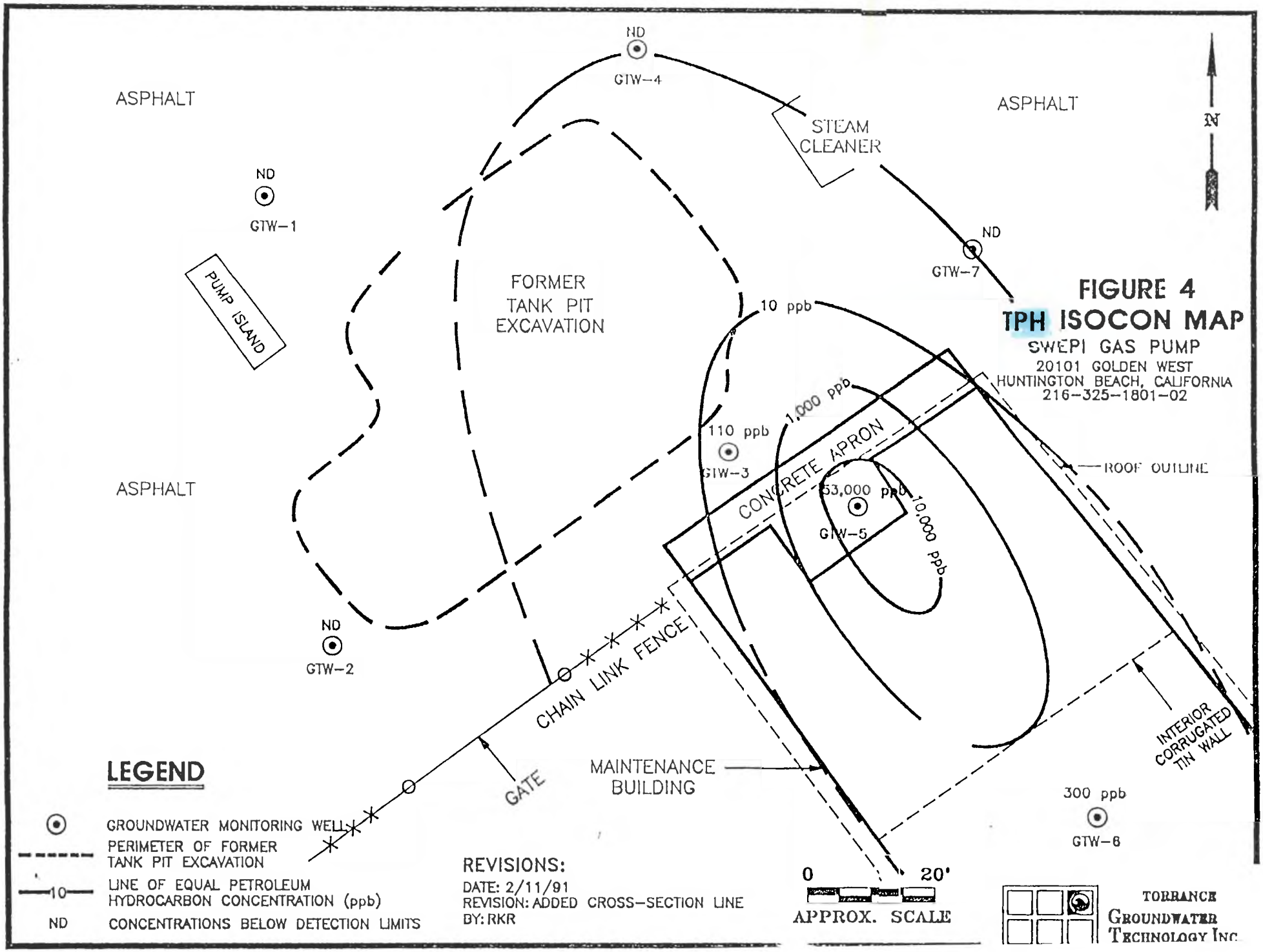


FIGURE 4
TPH ISOCON MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

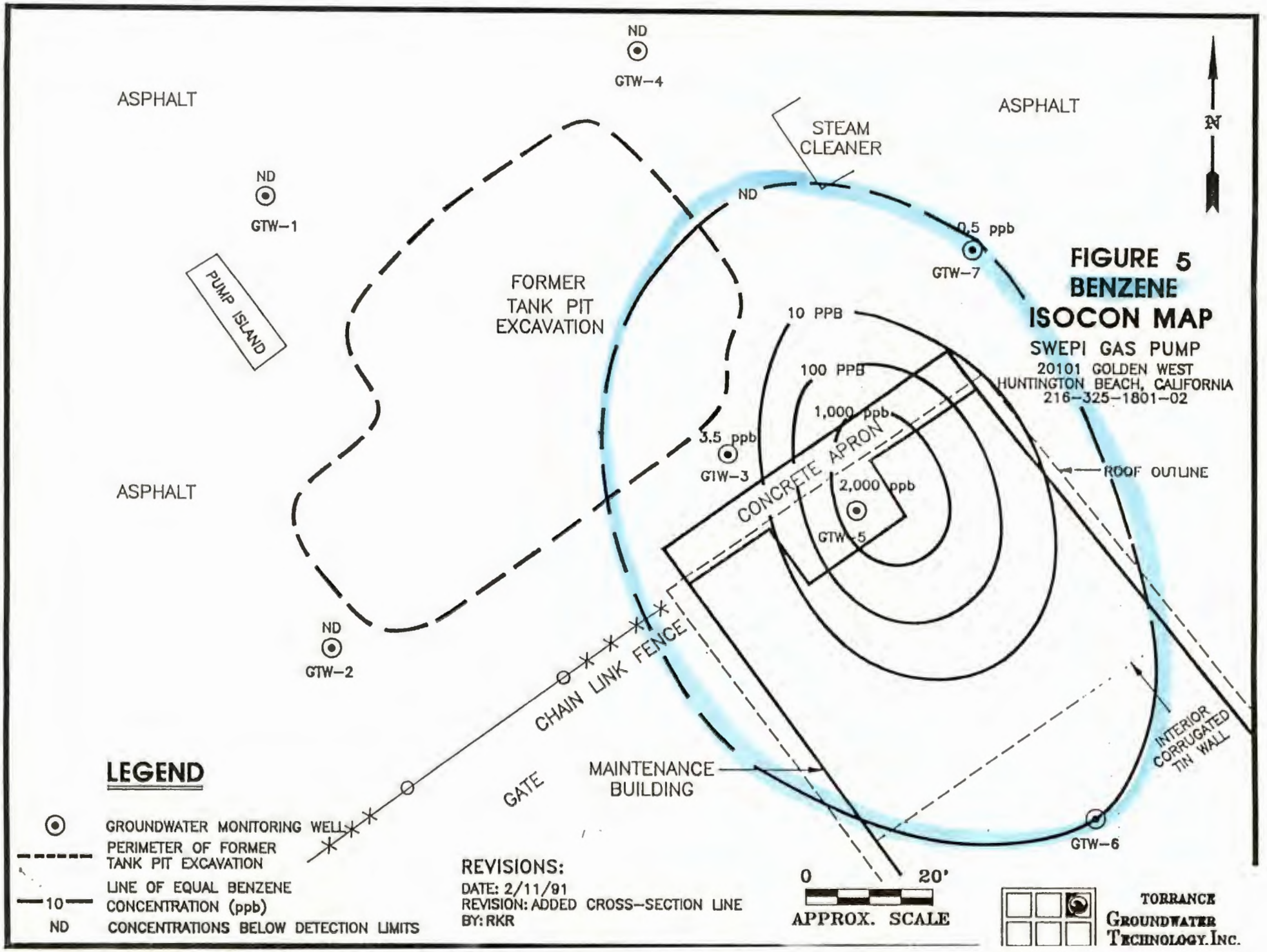
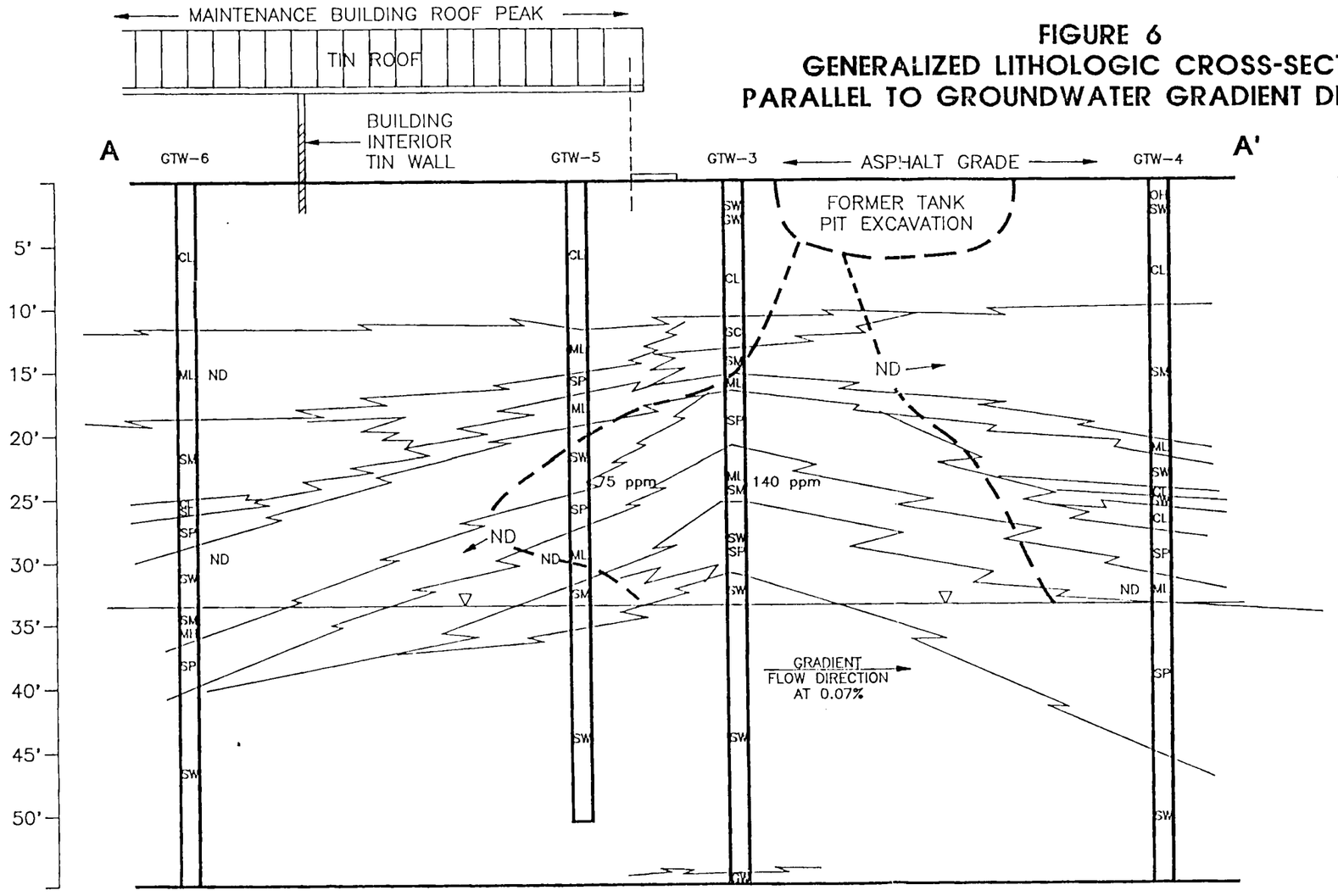

ND
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
ND
GTW-1
ND
0.5 ppb
GTW-7
PUMP ISLAND
FORMER TANK PIT EXCAVATION
10 PPB
100 PPB
1,000 ppb
3.5 ppb
GTW-3
CONCRETE APRON
ROOF OUTLINE
2,000 ppb
GTW-5
ASPHALT
ND
GTW-2
CHAIN LINK FENCE
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
GTW-6
FIGURE 5
BENZENE ISOCON MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
10 LINE OF EQUAL BENZENE CONCENTRATION (ppb)
ND CONCENTRATIONS BELOW DETECTION LIMITS
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE GROUNDWATER TECHNOLOGY, INC.

FIGURE 6
GENERALIZED LITHOLOGIC CROSS-SECTION
PARALLEL TO GROUNDWATER GRADIENT DIRECTION



GRADE

GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW:	SAND/GRAVEL MIXTURE
SP:	POORLY GRADED SAND
SW:	WELL GRADED SAND
SM:	SILTY SAND
SC:	CLAYEY SAND
ML:	CLAYEY/SANDY SILT
CL:	SILTY CLAY
CH:	VERY PLASTIC CLAY
OH:	ORGANIC CLAY
*	NOTE: WELL DIAMETERS EXAGGERATED
140 ppm	TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
— — —	TPH CONCENTRATIONS BELOW DETECTION LIMITS

REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR

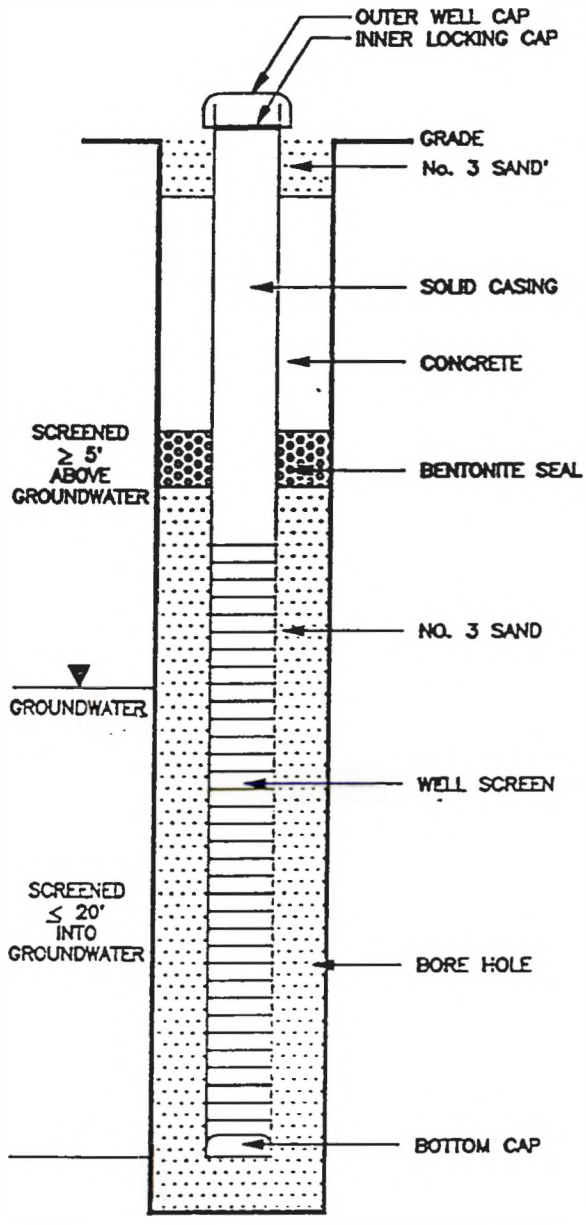
10'
0 20'
APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.

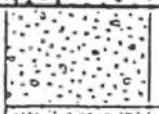
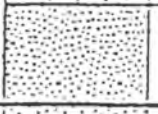
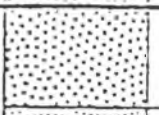
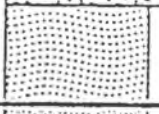
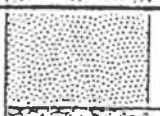
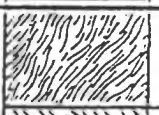
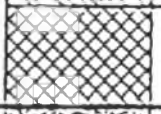
CONSTRUCTIONAL DIAGRAM OF:

GROUNDWATER MONITORING WELLS
(4" DIAMETER CASING)



S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS	GRAPHIC SYMBOL	SOIL CLASS	DESCRIPTIONS
CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
		GP	POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES.
		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
		SP	POORLY GRADED SANDS, OR GRAVELLY SANDS, LITTLE OR NO FINES.
SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES.
		SC	CLAYEY SANDS, SAND-CLAY MIXTURES.
SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY.
SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)		MH	INORGANIC SILTS, MICACEOUS OR DIATAMACEOUS FINE SANDY OR SILTY SOILS. ELASTIC SILTS.
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS.
HIGHLY ORGANIC SOILS		PT	PEAT OR OTHER HIGHLY ORGANIC SOILS.
			ASPHALT OR CONCRETE
			BACKFILL

TORRANCE GROUNDWATER TECHNOLOGY, INC.

DRILLING & LITHOLOGIC LOG

Well/Boring # GTW-6

Project: SWEPI-Gas Pump	Owner: S.W.E.P.I.	
Location: 20101 Golden West, Huntington Beach	Project Number: 216-325-1801-02	
Date Drilled:December 18, 1990 (am-pm)	Total Depth of Well: 55 feet	Diameter: 10 inches
Surface Elevation AMSL: N/A	Total Depth of Boring: 55 feet	Diameter: 8 inches
Depth-to-Water at Time of Drilling: 32 feet	24-hour Water Level: N/A	
Screen Diameter: 4 inches	Length: 30 feet	Slot Size: 0.02 inches
Casing Diameter: 4 inches	Length: 24.5 feet	Type: PVC SCH. 40
Drilling Company: A & R Drilling	Drilling Method: Hollow Stem Auger	
Sample Type: Modified Calif. Split Spoon Sampler	Core Sample Diameter: 1.5 inches	
Core Sample Condition Legend: ◪ Undisturbed	☒ Disturbed	☐ No Recovery
Driller: Steve Kosfer	Log By: Doug Ford	Checked By: JR Stolle CRG 2292

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES CONDITION	SAMPLES BLOWS	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION
0							Grade	GW	10:00 AM 4.5" Concrete over 6" Asphalt over 6" Road Base.
5			100	GTW6-5	☒	3 5 7		CL	Sandy Clay: Grey, about 20% fine grained, subangular, quartz sand, about 5% pea to 1/2" diameter, quartzite gravel, about 10% silt, about 65% clay, moist, stiff, no hydrocarbon odor. Plastic, slightly reactive to HCl (calcareous). Soil fractures contain calcareous pore cement. Fine roots present.
10			160	GTW6-10	◪	11 12 16		CL & ML	12:05 PM Sandy Clay: Light grey, about 50% clay, same as above. Clayey silt at 11 feet. Calcareous nodules present. Grades into sandy silt with gravel after several inches: Grey, about 10% pea size quartzite gravel, about 20% fine to coarse grained, subangular quartz sand, about 10% clay, about 60% silt. Moist, very stiff, no hydrocarbon odor. Reactive to HCl.
15			240	GTW6-15	◪	5 9 13		ML	12:15 PM Sandy silt with some clay: Grey-brown, about 30% micaceous, fine grained, subangular, quartz sand, about 60% silt, about 10% clay. Moist, very stiff, no hydrocarbon odor, slightly plastic. Ferromagnesian minerals about 5% of total grain count.
20								SM	Silty sand.

GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue • Torrance, California 90503 • (213) 371-1394

Project Name: SWEPI-Gas Pump | Project Number: 216-325-1801-02

Appendix | Well/Boring Log Number: GTW-6

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES CONDITION	SAMPLES BLOWS	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION
20			140	GTW6-20	M	7 8 10		SM	Silty Sand: At 20 feet, mottled black-grey, about 20% silt, about 80% fine grained micaceous, subangular quartz sand, moist, strong hydrocarbon odor. Silty Sand: At 21 feet, mottled, black-grey to grey, about 60% fine sand (same as above), about 40% silt. Partially laminated, weak soil partings across horizontal mica grains. Moist, moderate hydrocarbon odor.
25			50	GTW6-25	M	12 23 25		SM & CL & SC & SP-SM	12:30pm Alternating beds of silty sand, silty clay, clayey sand, and sand with a little silt: Silty Sand: Same as above. Silty Clay: Grey, about 30% silt, about 60% clay, about 10% fine sand. Very hard, moist, calcareous, plastic. Clayey Sand: Grey, about 20% clay, about 80% fine sand. Dense, no hydrocarbon odor, moist. Sand with Silt: Brown-grey, about 10% silt, about 90% fine, subangular, quartz sand.
30			70	GTW6-30	M	5 12 24		ML & SP-SM	Sandy Silt: Grey, about 40% fine grained quartz sand (same as above), about 60% silt. Nonplastic, very moist, no hydrocarbon odor. Increase clay percent at 30 feet to 20% clay, 70% silt, 10% sand. Slightly plastic. ▽ Groundwater at 32 feet. Sand with some Silt: Light brown, about 10% silt, about 90% sand (same as above). Very moist, dense, no hydrocarbon odor. Sand at 31 feet: Light brown, about 15% coarse subangular quartz sand, about 30% medium grained sand, about 40% fine grained sand, about 5% silt. Wet, dense.
35			--	GTW6-35	M	4 4 17		SW	
								SM & MH & SP	1:00pm Silty Sand: Brown, about 20% silt, about 80% fine grained micaceous subangular quartz sand. Loose to medium dense, no hydrocarbon odor. Sand Silt with Clay: Mottled, brown-grey, about 20% clay, about 20% fine sand (same as above), about 60% silt. Laminated. wet, no hydrocarbon odor, stiff. Sand: Mottled, brown-grey, about 95% fine grained, subangular quartz sand, about 5% silt. Medium dense, no hydrocarbon odor. Iron oxide staining in horizontal layers.
40								SW	
									Soil cuttings on auger flights logged from 37 feet to 55 feet.
45								SW	Sand: Grey-brown, about 30% fine grained sand, about 30% medium grained sand, about 20% coarse grained sand, about 10% pea gravel (subrounded quartzite), about 5% silt, about 5% clay. Trace shell fragments, saturated, no hydrocarbon odor.
50								SW	Sand: Grey-brown, about 20% fine grained sand, about 30% medium grained sand, about 5% silt. Subangular, micaceous, quartz sand with large shell fragments (pelycapods) saturated, no hydrocarbon odor.
55									End boring at 55 feet. Sampled to 36.5 feet. Groundwater at 32 feet. Soil cuttings placed in labeled 55-gallon drums and stored on site. Boring converted to groundwater monitoring well.

GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue • Torrance, California 90503 • (213) 371-1394

DRILLING & LITHOLOGIC LOG

Well/Boring #GTW-7

Project: SWEPI - Gas Pump	Owner: S.W.E.P.I.
Location: 20101 Golden West, Huntington Beach, Ca.	Project Number: 216-325-1801-02
Date Drilled: December 17, 1990 (am)	Total Depth of Well: 55 feet — Diameter: 10 inches
Surface Elevation AMSL: N/A	Total Depth of Boring: 55 feet — Diameter: 8 inches
Depth-to-Water at Time of Drilling: 34 feet	24-hour Water Level: N/A
Screen Diameter: 4 inches	Length: 30 feet — Slot Size: 0.02 inches
Casing Diameter: 4 inches	Length: 24.5 feet — Type: PVC Schedule 40
Drilling Company: A&R Drilling	Drilling Method: Hollow Stem Auger
Sample Type: Modified Calif. Split Spoon Sampler	Core Sample Diameter: 1.5 inches
Core Sample Condition Legend: ◪ Undisturbed	☒ Disturbed — ☐ No Recovery
Driller: Steve Kosfer	Log By: Doug Ford — Checked By: [signature] 12/28/90

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES CONDITION	SAMPLES BLOWS	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION
0							Grade	SC	9:05am 3 inches asphalt over clayey sand with gravel.
								CL	Sandy Clay: Dark brown gray, about 20% fine grained sand, about 70% clay, about 10% silt. Moist, strong hydrocarbon odor, slightly plastic to plastic.
5			40	GTW7-5		1 2 3		CL	Sandy Clay: Olive-grey, about 20% fine grained, micaceous, subangular, quartz sand, about 20% silt, about 5% pea size subrounded gravel, about 55% clay. Moist, moderate hydrocarbon odor, medium stiff.
10			20	GTW7-10		5 9 15		SM	Laminated Silty Sand: Brown-grey, about 20% silt, about 5% clay, about 75% fine grained, micaceous, subangular quartz sand. Micas and ferromag. minerals up to 15% of total grain count. Moist, faint hydrocarbon odor, medium dense, micaceous partings.
15			60	GTW7-15		3 7 9		ML	9:25am Sandy silt with clay: Mottled brown-grey, about 10% clay, about 30% micaceous fine grained, subangular, quartz sand, about 60% silt. Moist, no hydrocarbon odor, stiff, nonplastic to slightly plastic.
20									

GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue • Torrance, California 90503 • (213) 371-1394

Project Name: SWEPI - Gas Pump | Project Number: 216-325-1801-02

Appendix | Well/Boring Log Number: GTW-7

DEPTH (FEET)	WELL CONST. PIPE	WELL CONST. FILL	PID (PPM)	SAMPLES NUMBER	SAMPLES CONDITION	SAMPLES BLOWS	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION
20			45	GTW7-20		6 12 23		ML & SC & SW	Sandy Silt with Clay: Same as above. Clayey Sand: Grey-brown, about 30% clay, about 20% silt, about 50% fine to medium grained, quartz sand. Sand (SW): Grey-brown, about 20% subangular to subrounded, coarse micaceous, quartz sand, about 40% medium grained sand, about 30% fine grained sand, about 5% granitic pea gravel, about 5% silt. Moist, dense, faint hydrocarbon odor.
25			30	GTW7-25		5 7 11		ML	Laminated Sandy Silt to Sandy Silt with Clay at 26 feet: Brown-grey, about 30% fine grained, subangular, quartz sand, about 60% silt, about 10% clay. Moist, faint to no hydrocarbon odor, very stiff, slightly plastic.
30			60	GTW7-30		3 4 10		SM	Silty Sand with Clay at 30 feet: Brown, about 50% fine grained, subangular, quartz sand, about 30% silt, about 20% clay, slightly plastic, no hydrocarbon odor, moist. Silty Sand at 31 feet: Brown about 20% silt, about 80% sand (same as above). About 5% ferromagnesian minerals in total grain count. Very moist, no hydrocarbon odor, medium dense, non plastic. ▽ Groundwater at 34 feet.
35			--	GTW7-35		4 15 35		SP	10:16am Sand with Silt: Grey, about 95% fine grained, micaceous, subangular quartz sand, about 5% silt. Trace of pea size, subrounded gravel. Saturated, no hydrocarbon odor, very dense, non-plastic. Ferromagnesian minerals up to 15% of total grain count.
40								SP	60% medium grained and 40% fine grained sands.
45			--	GTW7-45		10 50		SP & SW-SM	10:30am Sand with silt at 45 feet: Grey, about 90% fine grained, subangular micaceous quartz sand, about 5% medium grained sand, about 5% silt. Saturated, non-plastic. Increase to 10% silt at 45.5 feet. 90% fine grained sand at this depth. Sand at 46 feet: Brown, about 10% silt, about 40% fine grained subangular sand, about 30% medium grained sand, about 15% coarse grained, angular sand, about 5% pea gravel. Same composition as above. Saturated, very dense, no hydrocarbon odor. Non-plastic.
50									
55									End boring at 55 feet. Sampled to 46.5 feet. Groundwater at 34 feet. Soil cuttings placed in labeled 55 gallon drums and stored onsite. Boring converted to groundwater monitoring well.

GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue • Torrance, California 90503 • (213) 371-1394

Air Monitoring During the Drilling of Well GTW-6 Inside the Maintenance Building

TIME	%LEL	% OXYGEN	CO (ppm)	ACTIVITIES
9:55	2	19.8	0	
10:00	4	19.2	1	
	Stopped the engine and Installed blower. (Air blown inside the building and an exhaust hose connected and air blown out of building			
10:05	3	19.7	4	5' drilled
10:10	4	19.7	7	
11:50	Stopped drilling due to problems with exhaust			
12:00	Problem Corrected Start drilling again. OVA Meter Recalibrated			
12:05	2	20.8	7	15' drilled
12:15	3	20.5	8	20' drilled
12:30	5	20.4	6	25' drilled
12:45	13	20.4	6	30' drilled
12:55	13	20.4	6	35' drilled
1:05	3	20.4	5	
	Changed Auger to 10" OD Reamed hole and drilled to 55 feet			
1:15	3	20.4	5	
1:30	2	20.5	5	
1:50	1	20.4	3	50' drilled
2:02	1	20.4	4	
	Installed screen and casing Set up for gravel packing			
2:10	1	20.8	2	
2:25	2	20.8	5	gravel packing
2:30	1	21.0	1	gravel packing
2:40	1	21.0	0	gravel packing
2:50	2	21.0	0	gravel packing

TIME	%LEL	% OXYGEN	CO (ppm)	ACTIVITIES
(Cont'd)				
3:06	3	21.0	0	put bentonite
3:25	4	21.0	0	pulled augers
3:30	4	21.0	0	sealed with cement

GROUNDWATER TECHNOLOGY, INC.

FIELD SURVEY DATA

CLIENT: SWEPI GAS PUMP

LOCATION:

JOB #: 216-325-1801-02

DATE: 1/14/91

STA.	B.S.	I.H.	F.S.	ELV.	D.T.P.	D.T.W.	P.T.	GW.E.	REMARKS
INSTRUMENT OVER POINT A									GTW-2 station as known elevation (surveyed by BBSI)
GTW-2	4.495			34.872		32.665		2.207	
CB	3.710			35.657					
GTW-6			4.660	34.707		32.45		2.257	
GTW-2	4.495								circuit closed
INSTRUMENT OVER POINT B									
GTW-2	4.530			34.872		32.665		2.207	
CB	3.745			35.657					
GTW-1	4.5075			34.8945		32.69		2.2045	
GTW-4	5.020			34.382		32.19		2.192	
GTW-3			4.8675	34.5345		32.30		2.2345	
GTW-5			4.335	35.067		32.82		2.247	
GTW-7			4.620	34.782		32.58		2.202	
GTW-2	4.530								circuit closed

EXPLANATIONS: DATA BY J. HUNDLEY

STA.=STATION OR WELL NUMBER
B.S.=BACKSIGHT TO KNOWN ELEVATION
I.H.=INSTRUMENT HEIGHT
F.S.=FORESIGHT
ELV.=ELEVATIONS
D.T.P.=DEPTH TO PRODUCT FROM SURFACE
D.T.W.=DEPTH TO WATER FROM SURFACE
P.T.=PRODUCT THICKNESS
GW.E=GROUNDWATER ELEVATION

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Avenue
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Client Number: 2163251801-02
Project ID: Swepi Gas Pump
Work Order Number: T0-12-307

January 3, 1991

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 12/19/90. The samples were received and analyzed as indicated on the chain of custody 76-11210, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number E723.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou

Rebecca Hsu-Chou,Ph.D.
Laboratory Director

Client Number: 2163251801-02
Project ID: Swepi Gas Pump
Work Order Number: T0-12-307

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Soil
EPA Methods 8020 and modified 8015[a]

GTEL Sample Number		1A	2A	3A	4A
Client Identification		GTW7-15	GTW7-30	GTW6-15	GTW6-30
Date Sampled		12/17/90	12/17/90	12/17/90	12/17/90
Date Extracted		12/26/90	12/26/90	12/26/90	12/26/90
Date Analyzed		12/28/90	12/28/90	12/28/90	12/28/90
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Benzene	0.05	<0.05	<0.05	<0.05	<0.05
Toluene	0.05	<0.05	<0.05	<0.05	<0.05
Ethyl Benzene	0.05	<0.05	<0.05	<0.05	<0.05
Xylene (total)	0.05	<0.05	<0.05	<0.05	<0.05
BTEX (total)	---	---	---	---	---
TPH as Gasoline	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision O, US EPA November 1986;Methanolic extraction by EPA Method 5030 (purge and trap) for aromatic volatile organics; modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols,May 1988 revision.

GTEL ENVIRONMENTAL LABORATORIES INC

GTEL ENVIRONMENTAL LABORATORIES INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

76-11210

CUSTODY RECORD

Project Manager: Bill Girolamo

Phone #(213) 371-1394

FAX #:

Address: 20000/200 Mariner Dr. Torrance CA. 90503

Site location: 20101 Golden west, Huntington Beach

Project Number: 246-325-1801-02

Project Name: Su'EPI Gas Pump

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW7-15		1A	1	X								X			12/17/90	AM
GTW7-30		2A	1	X								X			12/17/90	AM
GTW6-15		3A	1	X								X			12/18/90	PM
GTW6-30		4A	1	X								X			12/18/90	PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 ☐ 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
	X																
	X																
	X																
	X																

SPECIAL HANDLING

24 HOURS ☐

EXPEDITED 48 Hours ☐

SEVEN DAY ☐

OTHER 10 (#) BUSINESS DAYS

QA/QC CLP Level ☐ Blue Level ☐

FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: TO-12-307

Lab Use Only Storage Location

Lot #: Work Order #:

Relinquished by Sampler:	Received by:	Date: 12/19/90	Time: 1:45 PM
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received by Laboratory:	Date: 12/19/90	Time: 1:45

Way bill #

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Avenue
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Client Number: 2163251801-02
Project ID: SWEPI GAS PUMP
Work Order Number: T0-12-347

January 4, 1991

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Ave., Suite 200
Torrance, CA. 90503

Dear Mr. Girolamo,

Enclosed please find the analytical results report prepared by GTEL for samples received on 12/21/90, under chain of custody number 76-11219.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

A formal quality control/quality assurance program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project was performed in strict adherence to our QA/QC program to ensure sample integrity and to meet quality control criteria.

If you have any question concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou, Ph.D.
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		01	02	03	04
Client Identification		TRIPBLANK	GTW-1	GTW-2	GTW-3
Date Sampled		12/21/90	12/21/90	12/21/90	12/21/90
Date Analyzed		01/03/91	01/03/91	01/03/91	01/03/91
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	< 0.5	< 0.5	< 0.5	3.5
Toluene	0.5	< 0.5	< 0.5	< 0.5	7.8
Ethylbenzene	0.5	< 0.5	< 0.5	< 0.5	1.0
Xylene, total	0.5	< 0.5	< 0.5	< 0.5	6.9
BTEX, total	--	--	--	--	19
TPH as Gasoline	100	< 100	< 100	< 100	110
Detection Limit Multiplier		1	1	1	1

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and
Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015[a]

GTEL Sample Number		05	06	07	08
Client Identification		GTW-4	GTW-5	GTW-6	GTW-7
Date Sampled		12/21/90	12/21/90	12/21/90	12/21/90
Date Analyzed		01/03/91	01/03/91	01/03/91	01/03/91
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	< 0.5	2000	<0.5	0.5
Toluene	0.5	< 0.5	5500	4.8	<0.5
Ethylbenzene	0.5	< 0.5	3300	6.4	1.4
Xylene, total	0.5	< 0.5	13000	31	6.7
BTEX, total	--	--	24000	42	8.6
TPH as Gasoline	100	< 100	53000	300	<100
Detection Limit Multiplier		1	50	1	1

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. <PQL = less than practical quantitation levels, per EPA Federal Register, November 13, 1985, p. 46906.

GTEL ENVIRONMENTAL LABORATORIES INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76-11219

Project Manager: Bill Grahamo

Phone #: 213 371 1394

FAX #:

Address: 20000/20c Mariner Ave Torrance, CA

Site location: Huntington beach

Project Number: 216-325-1801-02

Project Name: Shell Gasline

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): JOHN HUNDLEY

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
TRIPBlank		1A	2	X					X			X			12/21	AM
GTW-1		2A	2	X					X			X			"	PM
GTW-2		3A	2	X					X			X			"	PM
GTW-3		4A	2	X					X			X			"	PM
GTW-4		5A	2	X					X			X			"	PM
GTW-5		6A	2	X					X			X			"	PM
GTW-6		7A	2	X					X			X			"	PM
GTW-7		8A	2	X					X			X			"	PM

ANALYSIS REQUEST

BTEX 602 X 8020 ☐ with MTBE ☐	BTEX/TPH Gas. 602/8015 X 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 X 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐
	X														X		X
	X														X		X
	X														X		X
	X														X		X
	X														X		X
	X														X		X
	X														X		X
	X														X		X

TD5

12/21 1130

SPECIAL HANDLING

24 HOURS ☐

EXPEDITED 48 Hours ☐

SEVEN DAY ☐

OTHER 10 (#) BUSINESS DAYS

QA/QC CLP Level ☐ Blue Level ☐

FAX ☐

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:

10-12-347

Lab Use Only

Lot #:

Storage Location

Work Order #:

CUSTODY RECORD

Relinquished by Sampler	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by Laboratory:
John Hundley					Waybill #
Date 12/20/90	Date	Date	Date	Date 12/21/90	
Time 6:06pm	Time	Time	Time	Time 6:10	

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Southwest Region
20000 / 300 Mariner Avenue
Torrance, CA 90503
(213) 371-1044
(800) 727-GTEL
Fax (213) 371-8720

Client Number: 2163251801-02
Project ID: Swepi Gas Pump
Work Order Number: T1-01-151

January 15, 1991

Mr. Bill Girolamo
Groundwater Technology, Inc.
20000 Mariner Avenue, Suite 200
Torrance, CA 90503

Dear Mr. Girolamo,

Attached please find the analytical results for the samples received by GTEL on 1/10/91. The samples were received and analyzed as indicated on the chain of custody 76-11241, which is attached.

GTEL maintains a formal quality assurance program to ensure the integrity of the analytical results. All quality assurance criteria were achieved during the analysis unless otherwise noted in the footnotes to the analytical report.

The specific analytical methods used and cited in this report are approved by state and federal regulatory agencies. GTEL is certified for the analysis reported herein by the Department of Health Services under certificate number E723.

If you have any questions regarding this analysis, or if we may service any additional analytical needs, please give us a call.

Sincerely,
GTEL Environmental Laboratories, Inc.

Rebecca Hsu-Chou, Ph.D.
Laboratory Director

Table 1

ANALYTICAL RESULTS

Total Lead in Water by Graphite Furnace AA
EPA Method 7421[a]

Sample Identification		Date Sampled	Date Digested	Date Analyzed	Concentration, ug/L[b]
GTEL No.	Client ID				
1A	GTW5	1/9/91	1/11/91	1/14/91	77

a Extracted by EPA Method 3020

b Method detection limit = 10 ug/L; analyte below this level would not be detected.

GTEL
ENVIRONMENTAL LABORATORIES INC

Table 2

ANALYTICAL RESULTS

Total Dissolved Solids in Water
Method 209 B[a]

Sample Identification		Date Sampled	Date Analyzed	Concentration, mg/L[b]
GTEL No.	Client ID			
1A	GTW5	1/9/91	1/14/91	9700

a Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985.
b Method detection limit = 10 mg/L; analyte below this level would not be detected.

GTEL
ENVIRONMENTAL LABORATORIES INC

GTEL ENVIRONMENTAL LABORATORIES INC

20000 Mariner Dr., Suite #300
Torrance, CA 90503

213-371-1044
800-727-GTEL

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 76-11241

CUSTODY RECORD

Project Manager: Bill Girolamo Phone #: (213) 371-1394 Ext. 351
FAX #:

Address: 20000 Mariner Ave Suite 200, Torrance, CA 90503 Site location: 20101 Golden West, Huntington Beach

Project Number: 216-325-1801-02 Project Name: SWEPI-Gas Pump

I attest that the proper field sampling procedures were used during the collection of these samples. Sampler Name (Print): Doug Ford

Field Sample ID	Source of Sample	GTEL Lab # (Lab use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: DATE	TIME
GTW5		1A	1	X								X			1/9/91	3:03PM

ANALYSIS REQUEST

BTEX 602 ☐ 8020 ☐ with MTBE ☐	BTEX/TPH Gas 602/8015 ☐ 8020/8015 ☐ MTBE ☐	TPH as ☐ Gas ☐ Diesel ☐ Jet Fuel	Product I.D. by GC (SIMDIS) ☐	Total Oil & Grease: 413.1 ☐ 413.2 ☐ 503A ☐	Total Petroleum Hydrocarbons: 418.1 ☐ 503E ☐	EPA 601 ☐ 8010 ☐ DCA only ☐	EPA 602 ☐ 8020 ☐	EPA 608 ☐ 8080 ☐ PCBs only ☐	EPA 610 ☐ 8310 ☐	EPA 624 ☐ 8240 ☐ NBS +15 ☐	EPA 625 ☐ 8270 ☐ NBS +25 ☐	EPTOX: Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi VOA ☐	EPA Priority Pollutant Metals ☐ HSL ☐	LEAD 7420 X 7421 ☐ 239.2 ☐ 6010 ☐ Org. Lead ☐	CAM Metals ☐ STLC ☐ TTLC	Corrosivity ☐ Flashpoint ☐ Reactivity ☐	Total Dissolved Solids (TDS)
															X			X

(See 1/14/91)

Received by: Date 1/10/91 Time 4:52PM

Received by: Date Time

Received by Laboratory: Date 1-10-91 Time 4:52

Way bill #

Relinquished by Sampler: Doug Ford

Relinquished by:

Relinquished by:

SPECIAL HANDLING

24 HOURS ☐
EXPEDITED 48 Hours ☐
SEVEN DAY ☐
OTHER 10 (#) BUSINESS DAYS
QA/QC CLP Level ☐ Blue Level ☐
FAX ☐

SPECIAL DETECTION LIMITS (Specify)

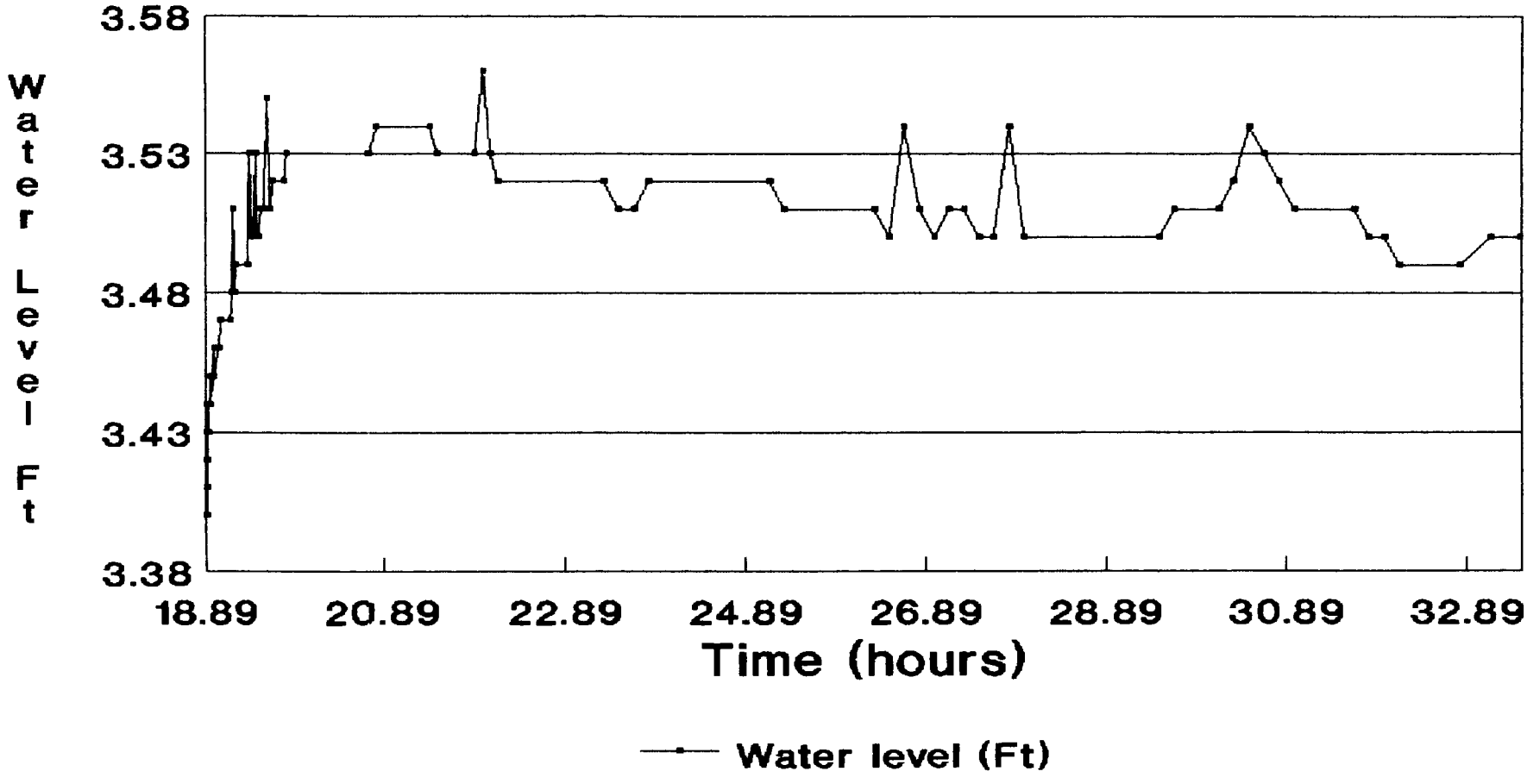
SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: T1-01-151
T1-01-152

Lab Use Only Storage Location
Lot #: Work Order #:

SWEPI GAS PUMPS

GT-5 PRE-PT



216-325-1801-02

	7	0.00	8	0.00							
3:53:34	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
3:53:36	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:37	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
3:53:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
3:53:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:41	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
:53:42	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:53:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
3:53:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
3:53:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:47	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
3:53:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:49	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
3:53:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:53:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
3:53:53	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
3:53:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:53:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
3:53:56	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:53:58	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
3:53:59	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00							
3:54:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:01	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00							
3:54:02	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00							
18:54:03	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00							

	7	0.00	8	0.00							
18:54:06	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:07	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:54:08	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:54:09	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:11	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:54:12	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:13	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:54:14	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:17	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
18:54:18	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00							
8:54:19	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:54:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:21	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:22	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:54:24	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:54:26	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:27	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:28	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:54:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:31	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
18:54:32	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:33	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00							
8:54:34	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							

	7	0.00	8	0.00							
18:54:38	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:41	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:44	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:47	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:51	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:53	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:56	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:57	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:58	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:54:59	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:55:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:55:01	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:55:03	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							
18:55:04	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00							

3:55:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:06	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:07	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
3:55:10	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:11	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:12	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:13	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:16	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:17	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:18	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:19	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:22	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:23	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
3:55:24	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:26	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:28	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:29	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:31	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:32	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								

_3:55:33	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:36	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
:55:37	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:38	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
3:55:42	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:44	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
_3:55:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:49	1	0.00	2	0.00	3	0.00	5	3.69	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:51	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:55:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:56:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:56:10	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:56:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								

3:56:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:56:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
3:56:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:56:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:56:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
:57:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
18:57:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:57:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:57:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:58:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:58:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
3:58:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
3:59:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
18:59:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
9:00:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
9:00:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:01:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								

19:01:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:02:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:02:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:03:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:03:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:04:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:04:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:05:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:05:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:06:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:06:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:07:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
19:08:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:09:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:10:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.48	6	0.00
	7	0.00	8	0.00								
19:11:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
19:12:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.48	6	0.00
	7	0.00	8	0.00								
19:13:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:14:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:15:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:16:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:17:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								

_9:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
9:19:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:20:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
9:21:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:22:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
9:23:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
9:24:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:25:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
9:26:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:27:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
9:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
9:30:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
9:32:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
9:34:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.55	6	0.00
	7	0.00	8	0.00								
19:36:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
9:40:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
9:42:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:44:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
9:46:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
9:50:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
9:52:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:54:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								

9:56:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
9:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:00:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:02:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:04:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:06:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:10:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:12:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:14:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:16:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:20:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:22:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:24:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:26:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
0:33:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								

	7	0.00	8	0.00							
0:43:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
0:53:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
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PREPARED FOR: SUB SEN
SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
P.O. BOX 11164
5060 CALIFORNIA AVENUE
BAKERSFIELD, CALIFORNIA 93389-1139

GAS PUMP AREA AQUIFER PUMPING TEST
SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
HUNTINGTON BEACH PRODUCTION UNIT
HUNTINGTON BEACH, CALIFORNIA

FEBRUARY 22, 1991

PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
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GROUNDWATER TECHNOLOGY, INC.

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INTRODUCTION

Hydraulic Properties of the Shallow Aquifer Beneath the Huntington Beach Production Area, Gas Pump Area

This report summarizes the pumping test procedure, including field activities and data interpretation for the shallow aquifer in the vicinity of the referenced site in Huntington Beach, California.

OBJECTIVES OF AQUIFER TESTING

The basic objectives of a pumping test are to determine the hydraulic characteristics of the saturated zone (aquifer test) and to evaluate the efficiency of the pumping well (well test).

The efficiency of a specific well can be determined from the yield and time-drawdown relationship. Specific capacity can be used for selecting the type of pump, and for estimating the cost of pumping. Such a test can be either a short or long term step-drawdown type. In either case, no observation wells or piezometers are required to be monitored in conjunction with the pumping well.

A long term pumping test can be used to evaluate the hydraulic parameters of the saturated zone. Such testing requires additional monitoring wells or piezometers to be used for the interpretation of the hydraulic parameters.

The long term pumping test performed for SWEPI was designed to evaluate the hydraulic properties of the uppermost saturated zone only. Most of the existing

monitoring wells were utilized for this test. The objectives of this test do not include the evaluation of the pumping well yield or specific capacity.

THE HYDRAULIC PROPERTIES OF AQUIFERS

The following are the most important properties that control the storage and flow of groundwater in the saturated zone.

Transmissivity (T)

The rate of flow under a hydraulic gradient equal to unity through a cross-section of unit width over the entire thickness of the aquifer. It is the product of the hydraulic conductivity (K), and the thickness of the saturated zone (b). It is designated by the symbol T or Kb and has the dimensions of length (cubed)/time/length or length (squared)/time and is, for example, expressed in square feet per day or gallons per day per foot.

Hydraulic Conductivity (K)

The rate of groundwater flow under a hydraulic gradient of unity through a cross-section of unit area. It has the dimensions of velocity: length/time, and area, length/time and is, for example, expressed in gallons per day per square foot (gpd/sq ft), meters/day, or feet/day.

Storativity or Storage Coefficient and Specific Yield (S):

The volume of water released or stored per unit surface area of the saturated zone per unit change in the component of head normal to that surface. Both are designated by the symbol S and are dimensionless.

Other hydraulic properties that may affect the yield from the semi-confined saturated zone are the hydraulic resistance, leakage factor, and drainage factor which is encountered in an unconfined saturated zone with delayed yield. Both properties have the dimensions of length and are, for example, expressed in meters or feet.

PRELIMINARY STUDIES

Before the performance of the test, the following basic information was collected, and field measurements were done one day prior to starting the test as a prerequisite for proper data acquisition and interpretation:

1) Well location, design and specifications, including total depth, diameter, location of well screens and blank casings intervals and specifications, filter pack type, well or boring diameter, and the distance between the wells to be used for monitoring were determined.

2) Static water levels or piezometric levels, gradients and directions of flow were measured with reference to a datum level over the whole area expected to be affected by the test.

3) Hourly fluctuation of groundwater levels were recorded. This was performed for one well, GTW-5, to reflect the fluctuation in the entire area being tested. The raw field data collected one day prior to the test are presented in Appendix C of the main body of this report. These data were plotted using Harvard Graphics software.

4) Site-specific hydrogeologic and geologic parameters were also reviewed in order to estimate hydraulic properties and to determine the proper discharge rate and duration of the pumping.

5) Site vicinity and regional interpretation was performed, including topography and surface drainage, the presence of hydraulic boundaries, and the artificial recharge or discharge of the saturated zone that may affect the aquifer being tested.

Prior to pumping, fluctuations of groundwater levels monitored in well GTW-5 and presented in the graph under "GT-5 PRE-PT" in Appendix C, are apparently due to tidal influence. The maximum water level observed was during the first two hours of monitoring at about 8:00 PM. After that, water levels decreases until the end of the monitoring period. However, the total decline in water level was only 0.04 feet.

Antecedent trends of water levels were not monitored in the remaining observation wells. Minor fluctuations in water levels are not considered in the interpretation of the pumping test data from these wells, and the observed drawdowns in observation wells were much larger than the expected background water level fluctuation.

FIELD ACTIVITIES AND PERFORMANCE OF THE PUMPING TEST

Field Activities

Prior to the performance of the test or the installation of the pump, the following measurements were taken in pumping well GTW-5 and the three observation well, GTW-3, GTW-4, and GTW-7:

- Measurements of the static water levels.

- Continuous monitoring of the proposed pumping well. This was done by installing a pressure transducer below the water level and monitoring the groundwater level for about 13 hours before the commencement of the test.

- All other external factors that might impact the test. These factors include precipitation, ground-surface loading conditions, recharge, discharge, and possible infiltration into the saturated zone.

All measurements of static water levels were performed prior to introduction of instruments into the pumping or monitoring wells. Considering the current state-of-the-art instrumentation available for water level measurements, it is cost effective and more efficient to use down-hole instruments for data acquisition than employing field personnel to do manual measurements. Therefore, pressure transducers and the data logger were used for data acquisition and a field computer was used for preliminary field data interpretation so that the test could be evaluated for validity before leaving the test site.

Discharge rate is another determining factor in the accuracy of the test and the validity of drawdown data. Discharge rate measurement and control were done both manually and by using an in-line flow meter.

Performance of the Pumping Test

On the morning of January 8th, 1991, a Groundwater Technology field technician, a geologist, and a hydrogeologist began field operations by measuring the static water levels, removing the in-hole stinger pipes used for sampling, installing the pressure transducers in the observation wells, and installing the pump in the pumping well, GTW-5.

The nearest observation well to the pumping well was GTW-3 located 22 feet northwest of GTW-5. The other two monitoring wells used for this test were GTW-4, 81.5 feet northwest of GTW-5, and GTW-7, 45.5 feet north of GTW-5.

Initial pumping, using a submersible pump, was discontinued after a few minutes of operation, due to the discharge of excessive quantities of sand and silt through the pump. The flow of sand through the pump damaged the teflon components of the pump and caused the termination of the test.

The small volume of water discharged during initial pumping contained a large amount of fine grained sand. Controlling sand and silt flow normally requires a recovery well that is specially designed to counteract such field conditions. The existing monitoring wells available for use in the aquifer test were all constructed with 4-inch diameter, Schedule 40, PVC casing and screens. The screen sections extended above the static water levels in all the wells and are slotted with 0.020 inch slot size. Since these wells were not designed to be recovery wells, it was decided to postpone the test until a proper pump that could handle the sand flow problem was available.

On January 9th, 1991, a "Sand-Handler" submersible pump was installed in GTW-5 and tested. The initial flow rate, measured volumetrically, was about 8 gallons per minutes (gpm). The discharge line through which groundwater was pumped included one check valve, one flow meter, two shut-off valves and one sampling port.

Before commencement of the test, static water levels were recorded once every second in the pumping well and the three selected observation wells for about three minutes starting at 14:24:01. The pump was turned on at 14:27:16 and continued to pump for 1054 minutes, until 08:01:00, on January 10, 1991.

Discharge Rate

The flow rate through the discharge line was monitored using a five gallon bucket and an in-line flow meter. the meter reading was recorded before the pump was turned on and then intermittently throughout the test. At the same intervals as the flow meter readings, the discharge of water into the five gallon bucket was timed. The flow rate was maintained at 57 seconds per bucket or 5.3 gpm. Early in the test, the flow rate required adjustment every 10 to 15 minutes. Adjustments were done using the in-line control valves. Maximum discharge rate was about 6 gpm during the early minutes of the test, adjusted to 5.3 gpm for the remaining period of the test. The minimum flow rate reported during the test was about 5 gpm after about two hours of pumping.

Ground Water Quality

The electrical conductivity of water (EC), measured in micromhos/cm previously monitored during well purging and sampling, was monitored throughout the test. Six water samples were collected for direct field measurement of both temperature and EC.

The reported water temperature was constant throughout the test at 22 degrees centigrade but the EC showed considerable decline from about 14,000 micromhos/cm during the early minutes of the test, to about 10,000 micromhos/cm after 1,000 minutes of pumping. The selected six EC measurements were graphed and are attached. These hydrochemical results indicate an increase in flow of less saline water, possibly through vertical leakage, into the well during water extraction.

COMPILATION, TRANSFER, AND ANALYSIS OF DATA

Preliminary analysis of field data reveal the accuracy, completeness and adequacy of the test. Data processing includes:

1) Transfer of the raw data from the data-logger into the computer software, DATALOGR, inverting the data to descending chronologic order, and transfer of files to GWAP software for interpretation.

2) Compilation of data in the form of tables and graphs.

3) Correction of drawdown data. This is generally done for one or more of the following:

   - Variable discharge rate, minor fluctuation in discharge rate, within or above 10% of the total rate. This fluctuation was minor and not corrected for in this test.

   - Barometric pressure changes or barometric efficiency. This is effective in confined aquifers and not applicable in this site.

   - Regional changes of the water levels not induced by pumping. No correction was necessary.

   - Effects of partial penetration of the pumping and monitoring wells. All the wells in this site are constructed throughout the upper saturated zone. Therefore, correction for partial penetration is not applicable for this test.

4) Determination of the hydraulic properties of the saturated zone.

PUMPING TEST RESULTS

Interpretation of the pumping test results was done using the computer software GWAP in which selected portions of the test were examined in light of all possible interpretations to identify and interpret the hydraulic properties of the saturated zone.

Observation Well GTW-3

This well is located 22 feet from the pumping well, GTW-5, and was monitored for the entire duration of the test. A significant drawdown in this well can be attributed to pumping from GTW-5. The tabulated time and drawdown data collected through channel 3 of the data logger are attached. The data was also plotted on a logarithmic scale, using GWAP software, for type curve fitting and interpretation. The maximum drawdown reported in this well was 0.2 feet. Therefore data from this observation well was used for pumping test interpretation. The first 482 minutes of the test were analyzed to calculate the hydraulic properties of the saturated zone. This set of data clearly indicates that delayed gravity response took place in the aquifer after about 100 minutes of pumping. For this reason, the early data, first 100 minutes, were interpreted using the unconfined condition that is affected by the elasticity of the aquifer. The best-fit curve was with a beta value of 0.20, where beta is a type curve. Details of this condition and data interpretation can be reviewed in S.P Neuman, (1975).

Transmissivity calculated using the above method is about 7,776 gpd/ft and the storativity or specific yield is about 1% . Hydraulic conductivity, calculated based on a saturated thickness of 22 feet, is 353 gpd/sq ft or 47 feet per day. These values are representative of a silty sand to fine sand lithology existing under unconfined, water table, condition.

The later drawdown data in this well can also be interpreted using the anisotropic unconfined aquifer condition with delayed gravity response. Details of this condition can also be found in S.P Neuman.(1975).

The best type curve fit for the late data was also with beta value of 0.20, and the calculated values of hydraulic properties were within the same order of magnitude as those from the early data. This interpretation resulted in the following:

T = 9121 gpd/ft
K = 415 gpd/sq ft or 55 ft/day
S = 0.16

Observation Well GTW-4

This well is located 81.5 feet from the pumping well,
GTW-5, and was monitored for the entire duration of the test. However, it did not show any significant drawdown that can be attributed to pumping. The tabulated time and drawdown data collected through channel 4 of the data logger are attached. The data was also plotted on a logarithmic scale, using GWAP software, to show it's general trend. The maximum drawdown reported in this well is less than one inch, 0.08 feet. Therefore this observation well is not used for pumping test interpretation.

Observation Well GTW-7

This well is located 45.5 feet from the pumping well,
GTW-5. A maximum of 0.12 feet of drawdown was recorded in this well after about 10 hours of pumping. The tabulated and drawdown data collected through channel 7 of the data logger are attached. The data was also plotted on a logarithmic scale, using GWAP software, for type curve fitting and interpretation. The first 10 minutes of pumping did

not show significant drawdown compared with observation well GTW-3. The entire drawdown and recovery data recorded in this well were plotted on one graph to show the general trend. Pumping test data recorded during the first three hours can be interpreted using an anisotropic unconfined aquifer condition with elastic response as is the case in observation well GTW-3. The best-fit curve was selected with a beta value of 0.10.

Transmissivity calculated using this method, 8711 gpd/ft, is slightly higher than the results from GTW-3: 7776 gpd/ft. However, the hydraulic conductivity is within the same order of magnitude, about 396 gpd/sq ft, and the storativity is 0.013.

The high transmissivity value calculated from observation well GTW-7 is probably affected by one or several of the following:

1) Vertical seepage from ponding water accumulated after the heavy rain during the morning and the afternoon of the day of pump test. All ponded water in the area drained into a storm drain located about 100 feet northwest of the pumping well. However, it is not known if this drain leaks is therefore a source for groundwater recharge. The only evidence available from this test that supports leakage from a shallow source is the decrease in EC values reported during the test. Late drawdown data showed recovery during the night and the second day of pumping and were not used for interpretation.

2) The steam cleaning area, located between wells GTW-4 and GTW-7 is another potential recharge source. No water was ponding during or after the heavy rain in this unpaved sandy area.

Velocity of Groundwater Flow

The general directions of the groundwater flowing across the site are shown in the Figure 3. The average linear velocity of groundwater flowing in the saturated zone under certain gradient can be estimated using the basic flow equation as follows:

$$V = (K/n) * I$$

Where: V = Average linear groundwater velocity in feet/day
K = Hydraulic Conductivity in feet/day
n = Effective Porosity of the saturated zone as a ratio
I = Groundwater gradient length/length

Using an average value for K = 50 ft/day calculated from the two observation wells, a gradient of 0.0007, and effective porosity of 20%, the calculated velocity is 0.175 ft/day or about 64 ft/year.

This value of groundwater velocity is relatively low and can be increased artificially by increasing the groundwater gradient within the cone of depression through pumping at the site.

Calculation of groundwater velocity in other parts of the property should consider the variations in hydraulic conductivity and gradients particularly in areas exhibiting lateral variations in the lithologic properties.

CONCLUSIONS

Based on the pumping test data interpretation from the two monitoring wells, GTW-3 and GTW-7, and on the lithologic characteristics of the saturated zone, the following conclusions can be reached:

conclusions can be reached:

- The saturated zone beneath the tested site is unconfined in which the upper limit is the water table.
- The saturated zone can yield a minimum of five gallons per minute with an average drawdown of two feet for continuous pumping exceeding one day.
- The average transmissivity of the saturated zone is 8,244 gpd/ft (1102 sq ft/day).
- The average hydraulic conductivity is 375 gpd/sq ft (50 ft/day).
- The calculated storativity or specific yield of the saturated zone is 0.012.

REFERENCES

S.P. Neuman, 1975, Analysis of pumping test data from anisotropic unconfined aquifers considering delayed gravity response. Water Resources Res., 11, pp.329-342.

PUMP TEST DATA FOR WELL GTW-3

216-325-1801-02
1801-R10.BG/#1

GROUNDWATER TECHNOLOGY, INC.

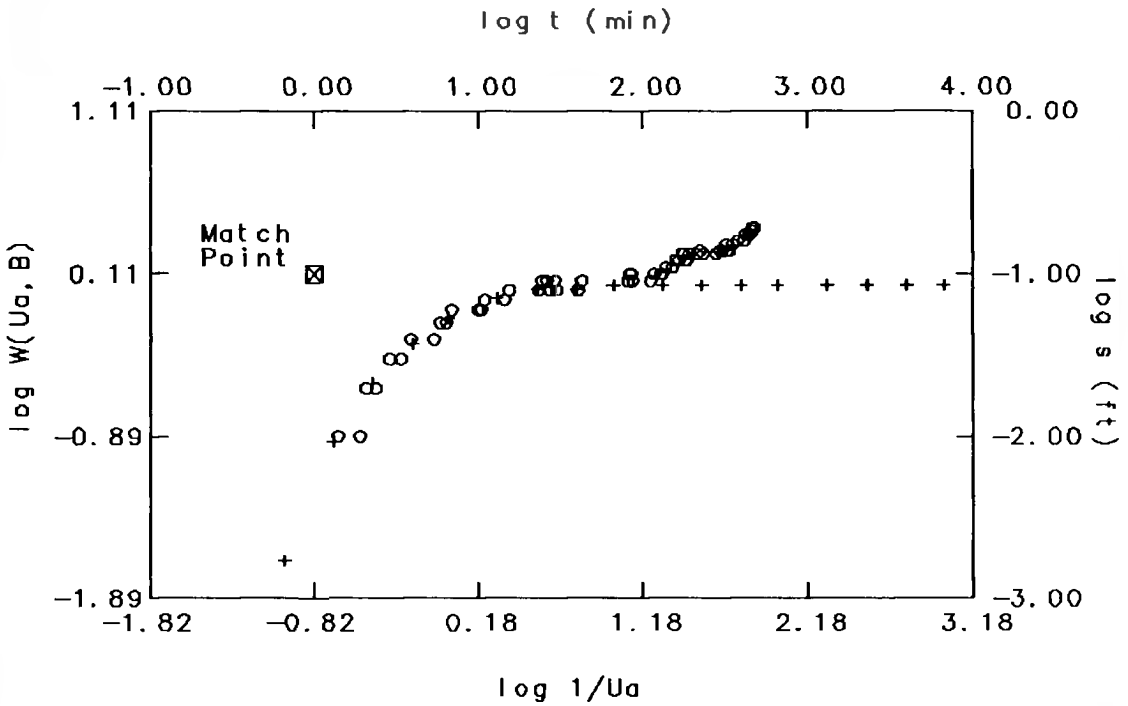
Data for Pump Test

Well Name: SGP GTW3 Date of Test: 01-09-91
Aquifer Thickness (b): 22.000 ft
Pumped Well Discharge(Q) = 5.260 gpm
Radius of Pumping Well = 0.350 ft
Distance of Observation Well from Pumping Well = 22.000 ft

Entry No.	Time(t) (min)	Drawdown(s) (ft)	t / d^2 (min/sq ft)
1	0.000	0.000	
2	1.417	0.010	2.928E-0003
3	1.917	0.010	3.961E-0003
4	2.083	0.020	4.304E-0003
5	2.417	0.020	4.994E-0003
6	2.917	0.030	6.027E-0003
7	3.417	0.030	7.060E-0003
8	3.917	0.040	8.093E-0003
9	5.417	0.040	1.119E-0002
10	5.917	0.050	1.223E-0002
11	6.417	0.050	1.326E-0002
12	6.917	0.060	1.429E-0002
13	9.917	0.060	2.049E-0002
14	10.417	0.060	2.152E-0002
15	10.917	0.070	2.256E-0002
16	14.417	0.070	2.979E-0002
17	15.417	0.080	3.185E-0002
18	23.417	0.080	4.838E-0002
19	24.417	0.090	5.045E-0002
20	26.417	0.090	5.458E-0002
21	27.417	0.080	5.665E-0002
22	29.417	0.090	6.078E-0002
23	30.417	0.080	6.285E-0002
24	40.417	0.080	8.351E-0002
25	42.417	0.090	8.764E-0002
26	80.417	0.090	1.662E-0001
27	82.417	0.100	1.703E-0001
28	84.417	0.100	1.744E-0001
29	86.417	0.090	1.785E-0001
30	112.417	0.090	2.323E-0001
31	117.417	0.100	2.426E-0001
32	127.417	0.100	2.633E-0001
33	132.417	0.100	2.736E-0001
34	137.417	0.110	2.839E-0001
35	152.417	0.110	3.149E-0001
36	157.417	0.120	3.252E-0001
37	167.417	0.120	3.459E-0001
38	172.417	0.130	3.562E-0001
39	177.417	0.130	3.666E-0001
40	182.417	0.120	3.769E-0001
41	187.417	0.120	3.872E-0001

42	192.417	0.130	3.976E-0001
43	212.417	0.130	4.389E-0001
44	222.417	0.140	4.595E-0001
45	232.417	0.130	4.802E-0001
46	282.417	0.130	5.835E-0001
47	292.417	0.140	6.042E-0001
48	312.417	0.140	6.455E-0001
49	322.417	0.150	6.662E-0001
50	332.417	0.140	6.868E-0001
51	342.417	0.140	7.075E-0001
52	352.417	0.150	7.281E-0001
53	382.417	0.160	7.901E-0001
54	412.417	0.160	8.521E-0001
55	422.417	0.170	8.728E-0001
56	442.417	0.170	9.141E-0001
57	452.417	0.180	9.347E-0001
58	462.417	0.180	9.554E-0001
59	472.417	0.190	9.761E-0001
60	482.417	0.190	9.967E-0001

SWEPI GP GTW-3 EARLY DRAWDOWN



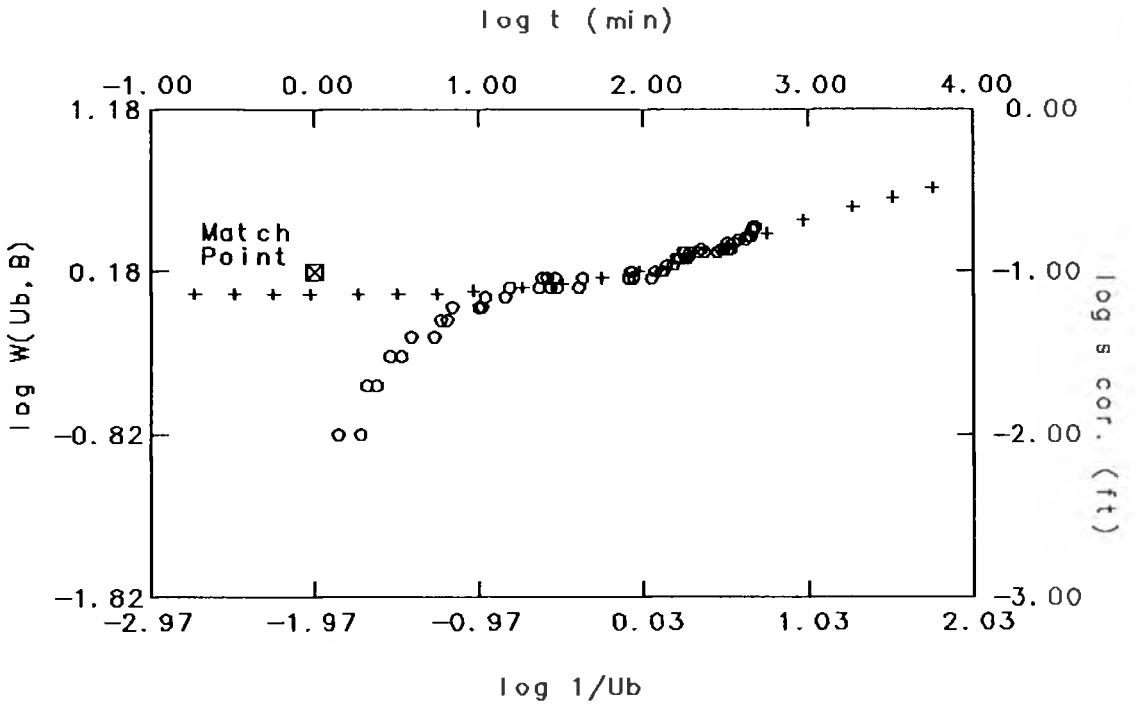
o – Data
+ – Type Curve
Unconf. Elastic: beta = 0.20

MATCH POINT			SOLUTION		
t	=	1.000E+0000	Transmissivity	=	7.764E+0003 gpd/ft
s	=	1.000E-0001	Hydraulic. Cond.	=	3.529E+0002 gpd/sq ft
1/Ua	=	1.514E-0001	Storativity	=	9.840E-0003
W(Ua,B)	=	1.288E+0000			

WELL INFORMATION	
WELL IDENTIFICATION	: SGP GTW3
DATE OF AQUIFER TEST	: 01-09-91
AQUIFER THICKNESS (b)	: 2.200E+0001 ft
DISCHARGE RATE (Q)	: 5.260E+0000 gpm
PUMPING WELL RADIUS (r)	: 3.500E-0001 ft
DISTANCE OF OBS. WELL FROM PUMPING WELL (d)	: 2.200E+0001 ft

GROUNDWATER TECHNOLOGY, INC.

SWEPI GP GTW-3 LATE DRAWDOWN



o – Data
\+ – Type Curve
Unconf. Delayed: beta = 0.20

MATCH POINT			SOLUTION		
t	=	1.000E+0000	Transmissivity	=	9.121E+0003 gpd/ft
s	=	1.000E-0001	Hydraulic. Cond.	=	4.146E+0002 gpd/sq ft
1/Ub	=	1.072E-0002	Specific Yield	=	1.633E-0001
W(Ub,B)	=	1.514E+0000			

WELL INFORMATION		
WELL IDENTIFICATION	:	SGP GTW3
DATE OF AQUIFER TEST	:	01-09-91
AQUIFER THICKNESS (b)	:	2.200E+0001 ft
DISCHARGE RATE (Q)	:	5.260E+0000 gpm
PUMPING WELL RADIUS (r)	:	3.500E-0001 ft
DISTANCE OF OBS. WELL FROM PUMPING WELL (d)	:	2.200E+0001 ft

GROUNDWATER TECHNOLOGY, INC.

GAS PUMP AREA AQUIFER PUMPING TEST
Shell Western Exploration and Production, Inc.
Huntington Beach, California

PUMP TEST DATA FOR WELL GTW-4

216-325-1801-02
1801-R10.BG/#1

GROUNDWATER TECHNOLOGY, INC.

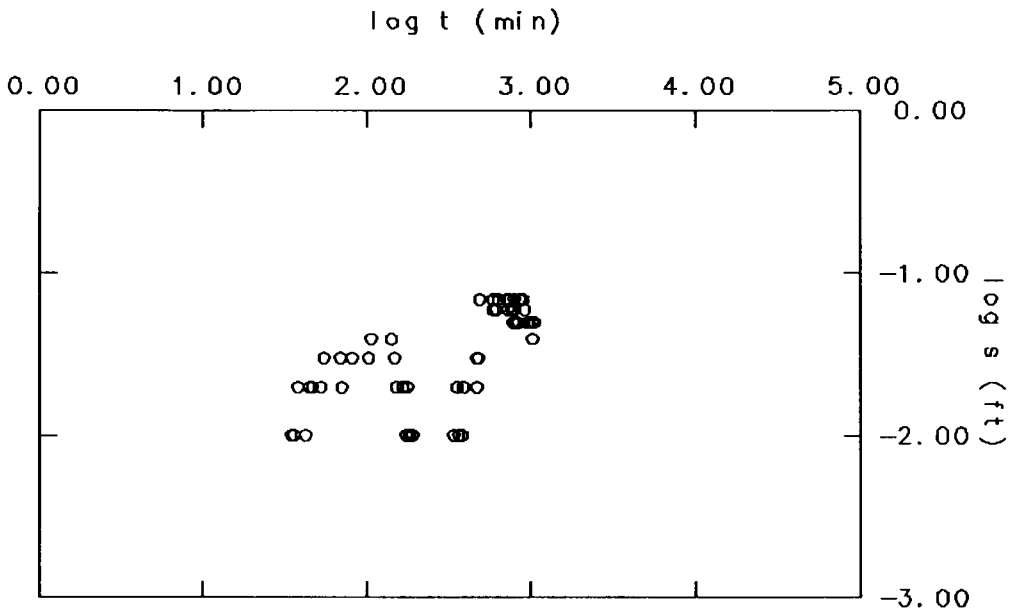
Data for Pump Test

Well Name: SGP GTW4 Date of Test: 01-09-91
Aquifer Thickness (b): 22.000 ft
Pumped Well Discharge(Q) = 5.260 gpm
Radius of Pumping Well = 0.350 ft
Distance of Observation Well from Pumping Well = 81.500 ft

Entry No.	Time(t) (min)	Drawdown(s) (ft)	t / d^2 (min/sq ft)
1	0.000	0.000	
2	34.417	0.010	5.182E-0003
3	36.417	0.010	5.483E-0003
4	38.417	0.020	5.784E-0003
5	42.417	0.010	6.386E-0003
6	44.417	0.020	6.687E-0003
7	52.417	0.020	7.891E-0003
8	54.417	0.030	8.193E-0003
9	68.417	0.030	1.030E-0002
10	70.417	0.020	1.060E-0002
11	80.417	0.030	1.211E-0002
12	102.417	0.030	1.542E-0002
13	107.417	0.040	1.617E-0002
14	142.417	0.040	2.144E-0002
15	147.417	0.030	2.219E-0002
16	152.417	0.020	2.295E-0002
17	167.417	0.020	2.520E-0002
18	172.417	0.010	2.596E-0002
19	177.417	0.020	2.671E-0002
20	182.417	0.010	2.746E-0002
21	192.417	0.010	2.897E-0002
22	197.417	0.000	2.972E-0002
23	332.417	0.000	5.005E-0002
24	342.417	0.010	5.155E-0002
25	352.417	0.020	5.306E-0002
26	362.417	0.010	5.456E-0002
27	382.417	0.010	5.757E-0002
28	392.417	0.020	5.908E-0002
29	462.417	0.020	6.962E-0002
30	472.417	0.030	7.112E-0002
31	482.417	0.030	7.263E-0002
32	492.417	0.070	7.413E-0002
33	582.417	0.070	8.768E-0002
34	592.417	0.060	8.919E-0002
35	622.417	0.060	9.371E-0002
36	632.417	0.070	9.521E-0002
37	712.417	0.070	1.073E-0001
38	722.417	0.060	1.088E-0001
39	732.417	0.070	1.103E-0001
40	742.417	0.070	1.118E-0001
41	752.417	0.060	1.133E-0001

42	762.417	0.060	1.148E-0001
43	772.417	0.050	1.163E-0001
44	782.417	0.060	1.178E-0001
45	792.417	0.070	1.193E-0001
46	802.417	0.060	1.208E-0001
47	812.417	0.050	1.223E-0001
48	832.417	0.050	1.253E-0001
49	852.417	0.070	1.283E-0001
50	892.417	0.070	1.344E-0001
51	912.417	0.060	1.374E-0001
52	952.417	0.050	1.434E-0001
53	972.417	0.050	1.464E-0001
54	1012.417	0.040	1.524E-0001
55	1032.417	0.050	1.554E-0001
56	1055.417	0.050	1.589E-0001

SWEPI GP GTW-4 DRAWDOWN



o - Data

WELL INFORMATION	
WELL IDENTIFICATION	: SGP GTW4
DATE OF AQUIFER TEST	: 01-09-91
AQUIFER THICKNESS (b)	: 2.200E+0001 ft
DISCHARGE RATE (Q)	: 5.260E+0000 gpm
PUMPING WELL RADIUS (r)	: 3.500E-0001 ft
DISTANCE OF OBS. WELL FROM PUMPING WELL (d)	: 8.150E+0001 ft

GROUNDWATER TECHNOLOGY, INC.

GAS PUMP AREA AQUIFER PUMPING TEST
Shell Western Exploration and Production, Inc.
Huntington Beach, California

PUMP TEST DATA FOR WELL GTW-5

216-325-1801-02
1801-R10.BG/#1

GROUNDWATER TECHNOLOGY, INC.

Data for Pump Test

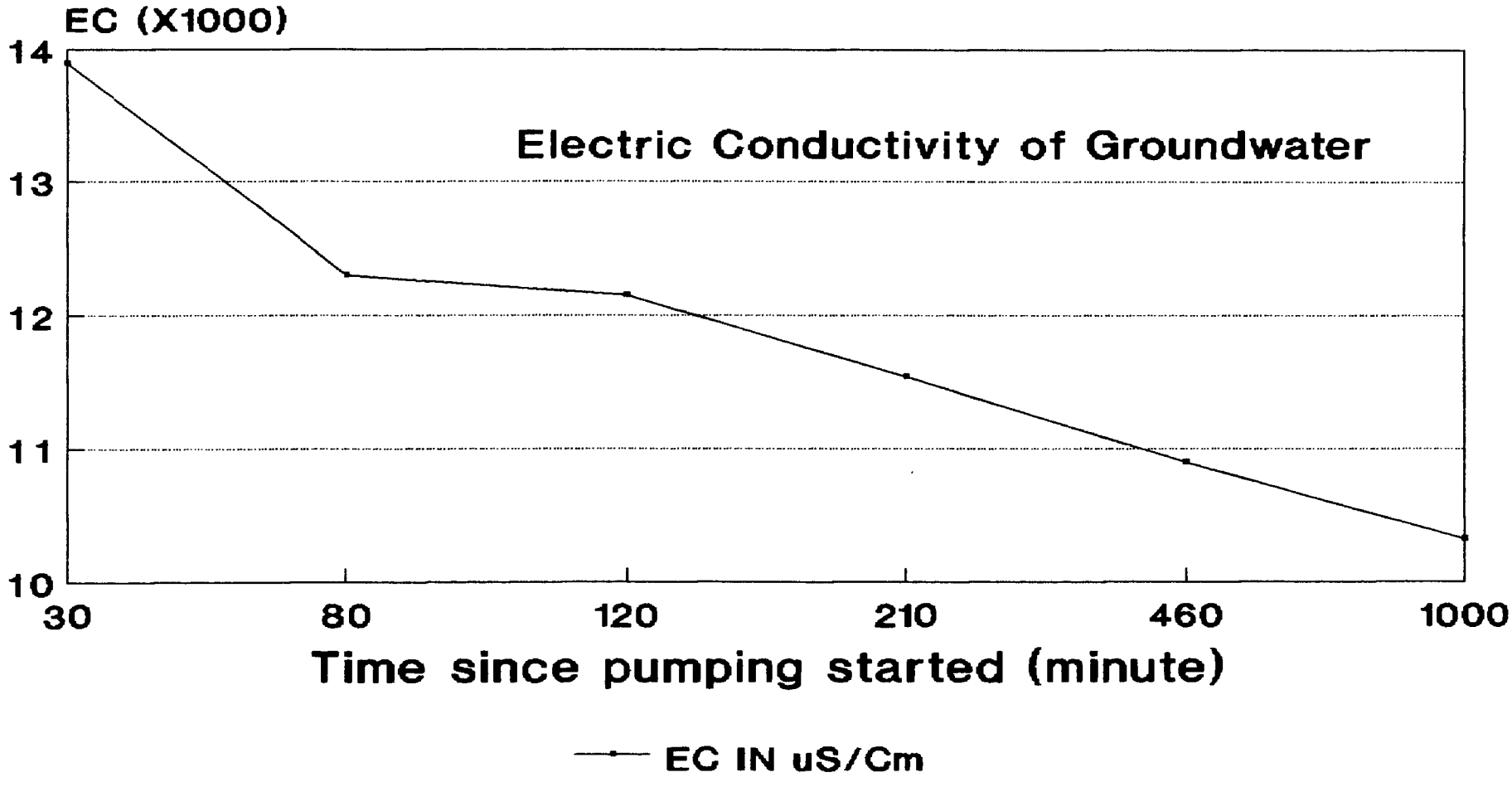
Well Name: SGP GTW5 Date of Test: 01-09-91
Aquifer Thickness (b): 22.000 ft
Pumped Well Discharge(Q) = 5.260 gpm
Radius of Pumping Well = 0.350 ft
Distance of Observation Well from Pumping Well = 0.350 ft

Entry No.	Time(t) (min)	Drawdown(s) (ft)	t / d^2 (min/sq ft)
1	0.000	0.000	
2	0.083	0.340	6.776E-0001
3	0.167	0.540	1.363E+0000
4	0.250	0.710	2.041E+0000
5	0.333	0.910	2.718E+0000
6	0.417	1.100	3.404E+0000
7	0.583	1.370	4.759E+0000
8	0.750	1.490	6.122E+0000
9	0.917	1.590	7.486E+0000
10	1.083	1.550	8.841E+0000
11	1.250	1.540	1.020E+0001
12	1.417	1.530	1.157E+0001
13	1.583	1.550	1.292E+0001
14	1.750	1.570	1.429E+0001
15	1.917	1.560	1.565E+0001
16	2.083	1.670	1.700E+0001
17	2.250	1.860	1.837E+0001
18	2.417	1.920	1.973E+0001
19	2.917	2.030	2.381E+0001
20	3.417	2.090	2.789E+0001
21	3.917	2.110	3.198E+0001
22	4.417	2.170	3.606E+0001
23	4.917	2.170	4.014E+0001
24	5.417	2.130	4.422E+0001
25	5.917	2.130	4.830E+0001
26	6.417	2.130	5.238E+0001
27	6.917	2.140	5.647E+0001
28	7.417	2.130	6.055E+0001
29	-1.000	-1.000	
30	7.917	1.990	6.463E+0001
31	8.417	1.520	6.871E+0001
32	8.917	1.710	7.279E+0001
33	9.417	1.740	7.687E+0001
34	10.417	1.740	8.504E+0001
35	10.917	1.750	8.912E+0001
36	11.917	1.750	9.728E+0001
37	12.417	1.820	1.014E+0002
38	13.417	1.880	1.095E+0002
39	14.417	1.880	1.177E+0002
40	15.417	1.870	1.259E+0002
41	16.417	1.830	1.340E+0002

42	17.417	1.750	1.422E+0002
43	18.417	1.830	1.503E+0002
44	19.417	1.750	1.585E+0002
45	20.417	1.740	1.667E+0002
46	22.417	1.740	1.830E+0002
47	23.417	1.760	1.912E+0002
48	29.417	1.760	2.401E+0002
49	30.417	1.750	2.483E+0002
50	31.417	1.760	2.565E+0002
51	32.417	1.760	2.646E+0002
52	34.417	1.760	2.810E+0002
53	36.417	1.760	2.973E+0002
54	38.417	1.770	3.136E+0002
55	40.417	1.760	3.299E+0002
56	42.417	1.760	3.463E+0002
57	44.417	1.770	3.626E+0002
58	46.417	1.780	3.789E+0002
59	48.417	1.770	3.952E+0002
60	68.417	1.770	5.585E+0002
61	70.417	1.750	5.748E+0002
62	72.417	1.740	5.912E+0002
63	76.417	1.740	6.238E+0002
64	78.417	1.750	6.401E+0002
65	80.417	1.750	6.565E+0002
66	82.417	1.730	6.728E+0002
67	84.417	1.730	6.891E+0002
68	86.417	1.720	7.054E+0002
69	92.417	1.720	7.544E+0002
70	97.417	1.730	7.952E+0002
71	102.417	1.840	8.361E+0002
72	107.417	1.830	8.769E+0002
73	112.417	1.810	9.177E+0002
74	117.417	1.810	9.585E+0002
75	122.417	1.900	9.993E+0002
76	127.417	1.910	1.040E+0003
77	147.417	1.910	1.203E+0003
78	152.417	1.930	1.244E+0003
79	157.417	1.930	1.285E+0003
80	162.417	1.940	1.326E+0003
81	167.417	1.930	1.367E+0003
82	172.417	1.940	1.407E+0003
83	177.417	1.950	1.448E+0003
84	182.417	1.960	1.489E+0003
85	187.417	1.960	1.530E+0003
86	192.417	1.960	1.571E+0003
87	197.417	1.980	1.612E+0003
88	212.417	1.980	1.734E+0003
89	222.417	2.000	1.816E+0003
90	242.417	2.010	1.979E+0003
91	282.417	2.020	2.305E+0003
92	292.417	2.030	2.387E+0003
93	302.417	2.040	2.469E+0003
94	312.417	2.040	2.550E+0003
95	322.417	2.040	2.632E+0003
96	332.417	2.050	2.714E+0003
97	342.417	2.050	2.795E+0003
98	352.417	2.060	2.877E+0003
99	362.417	2.060	2.959E+0003
100	372.417	2.070	3.040E+0003
101	382.417	2.080	3.122E+0003

102	392.417	2.080	3.203E+0003
103	402.417	2.080	3.285E+0003
104	412.417	2.080	3.367E+0003
105	422.417	2.110	3.448E+0003
106	432.417	2.130	3.530E+0003
107	442.417	2.130	3.612E+0003
108	452.417	2.140	3.693E+0003
109	462.417	2.140	3.775E+0003
110	472.417	2.350	3.856E+0003
111	482.417	2.370	3.938E+0003
112	492.417	1.640	4.020E+0003
113	502.417	2.100	4.101E+0003
114	512.417	2.090	4.183E+0003
115	522.417	2.110	4.265E+0003
116	532.417	2.110	4.346E+0003
117	582.417	2.110	4.754E+0003
118	592.417	2.100	4.836E+0003
119	612.417	2.100	4.999E+0003
120	622.417	2.110	5.081E+0003
121	632.417	2.080	5.163E+0003
122	642.417	2.030	5.244E+0003
123	652.417	2.020	5.326E+0003
124	662.417	2.010	5.407E+0003
125	672.417	2.000	5.489E+0003
126	682.417	1.990	5.571E+0003
127	702.417	1.990	5.734E+0003
128	712.417	1.990	5.816E+0003
129	722.417	1.980	5.897E+0003
130	732.417	1.990	5.979E+0003
131	742.417	2.000	6.061E+0003
132	752.417	1.990	6.142E+0003
133	762.417	1.980	6.224E+0003
134	772.417	1.980	6.305E+0003
135	782.417	1.990	6.387E+0003
136	792.417	2.000	6.469E+0003
137	802.417	1.990	6.550E+0003
138	812.417	1.990	6.632E+0003
139	832.417	2.000	6.795E+0003
140	852.417	2.020	6.959E+0003
141	872.417	2.020	7.122E+0003
142	892.417	2.020	7.285E+0003
143	952.417	2.020	7.775E+0003
144	972.417	2.260	7.938E+0003
145	992.417	2.250	8.101E+0003
146	1012.417	2.230	8.265E+0003
147	1053.717	2.230	8.602E+0003

SWEPI-WELL #5
EC-DURING PUMPING TEST



MEASURED IN US/CM

GAS PUMP AREA AQUIFER PUMPING TEST
Shell Western Exploration and Production, Inc.
Huntington Beach, California

PUMP TEST DATA FOR WELL GTW-7

216-325-1801-02
1801-R10.BG/#1

GROUNDWATER TECHNOLOGY INC.

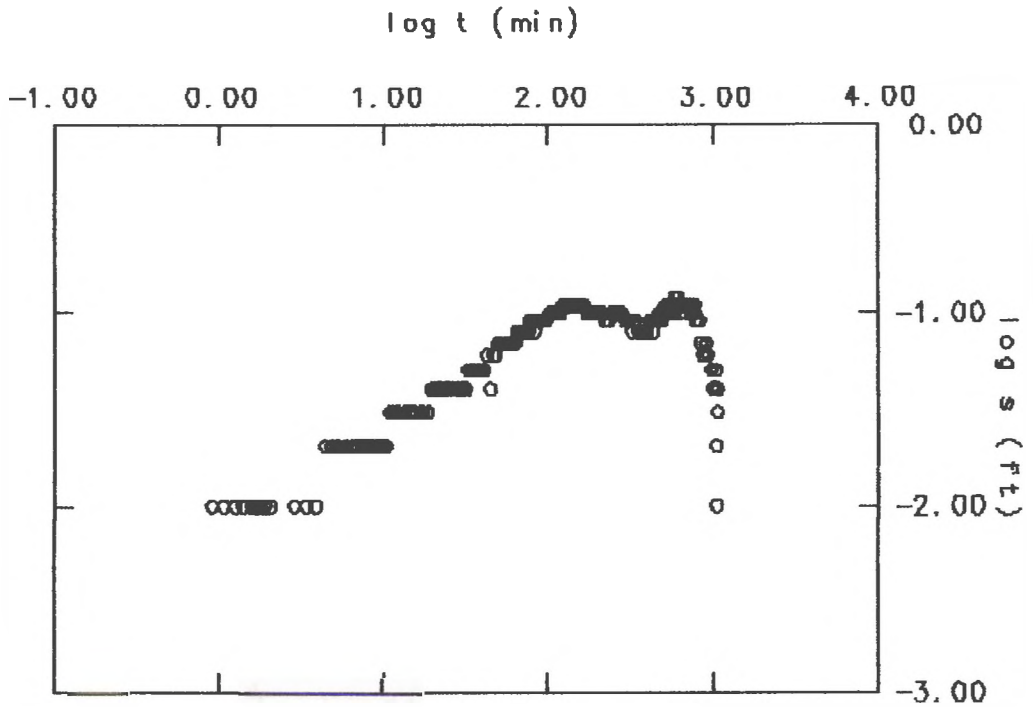
Data for Pump Test

Well Name: SGP GTW7 Date of Test: 01-09-91
Aquifer Thickness (b): 22.000 ft
Pumped Well Discharge(Q) = 5.260 gpm
Radius of Pumping Well = 0.350 ft
Distance of Observation Well from Pumping Well = 45.500 ft

Entry No.	Time(t) (min)	Drawdown(s) (ft)	t / d^2 (min/sq ft)
1	0.000	0.000	
2	0.917	0.010	4.429E-0004
3	2.083	0.010	1.006E-0003
4	2.250	0.000	1.087E-0003
5	2.917	0.010	1.409E-0003
6	3.417	0.010	1.651E-0003
7	4.417	0.020	2.134E-0003
8	10.417	0.020	5.032E-0003
9	10.917	0.030	5.273E-0003
10	19.417	0.040	9.379E-0003
11	31.417	0.040	1.518E-0002
12	32.417	0.050	1.566E-0002
13	40.417	0.050	1.952E-0002
14	42.417	0.060	2.049E-0002
15	44.417	0.040	2.145E-0002
16	46.417	0.060	2.242E-0002
17	48.417	0.060	2.339E-0002
18	50.417	0.070	2.435E-0002
19	64.417	0.080	3.112E-0002
20	76.417	0.080	3.691E-0002
21	78.417	0.090	3.788E-0002
22	80.417	0.090	3.884E-0002
23	82.417	0.080	3.981E-0002
24	84.417	0.090	4.078E-0002
25	97.417	0.090	4.706E-0002
26	102.417	0.100	4.947E-0002
27	117.417	0.100	5.672E-0002
28	122.417	0.110	5.913E-0002
29	167.417	0.110	8.087E-0002
30	172.417	0.100	8.328E-0002
31	212.417	0.100	1.026E-0001
32	222.417	0.090	1.074E-0001
33	232.417	0.090	1.123E-0001
34	242.417	0.100	1.171E-0001
35	282.417	0.100	1.364E-0001
36	292.417	0.090	1.412E-0001
37	312.417	0.090	1.509E-0001
38	322.417	0.080	1.557E-0001
39	332.417	0.090	1.606E-0001
40	342.417	0.090	1.654E-0001
41	352.417	0.080	1.702E-0001

42	402.417	0.080	1.944E-0001
43	412.417	0.090	1.992E-0001
44	422.417	0.090	2.040E-0001
45	432.417	0.080	2.089E-0001
46	442.417	0.090	2.137E-0001
47	472.417	0.090	2.282E-0001
48	482.417	0.100	2.330E-0001
49	492.417	0.090	2.379E-0001
50	502.417	0.100	2.427E-0001
51	512.417	0.100	2.475E-0001
52	522.417	0.110	2.523E-0001
53	532.417	0.100	2.572E-0001
54	542.417	0.110	2.620E-0001
55	582.417	0.110	2.813E-0001
56	592.417	0.120	2.862E-0001
57	612.417	0.120	2.958E-0001
58	622.417	0.110	3.006E-0001
59	642.417	0.110	3.103E-0001
60	652.417	0.100	3.151E-0001
61	662.417	0.100	3.200E-0001
62	672.417	0.100	3.248E-0001
63	682.417	0.110	3.296E-0001
64	732.417	0.110	3.538E-0001
65	742.417	0.100	3.586E-0001
66	752.417	0.100	3.634E-0001
67	762.417	0.110	3.683E-0001
68	782.417	0.100	3.779E-0001
69	792.417	0.090	3.828E-0001
70	832.417	0.090	4.021E-0001
71	852.417	0.070	4.117E-0001
72	872.417	0.060	4.214E-0001
73	892.417	0.060	4.311E-0001
74	912.417	0.070	4.407E-0001
75	932.417	0.060	4.504E-0001
76	972.417	0.050	4.697E-0001
77	992.417	0.040	4.794E-0001
78	1032.417	0.040	4.987E-0001
79	1052.417	0.050	5.084E-0001

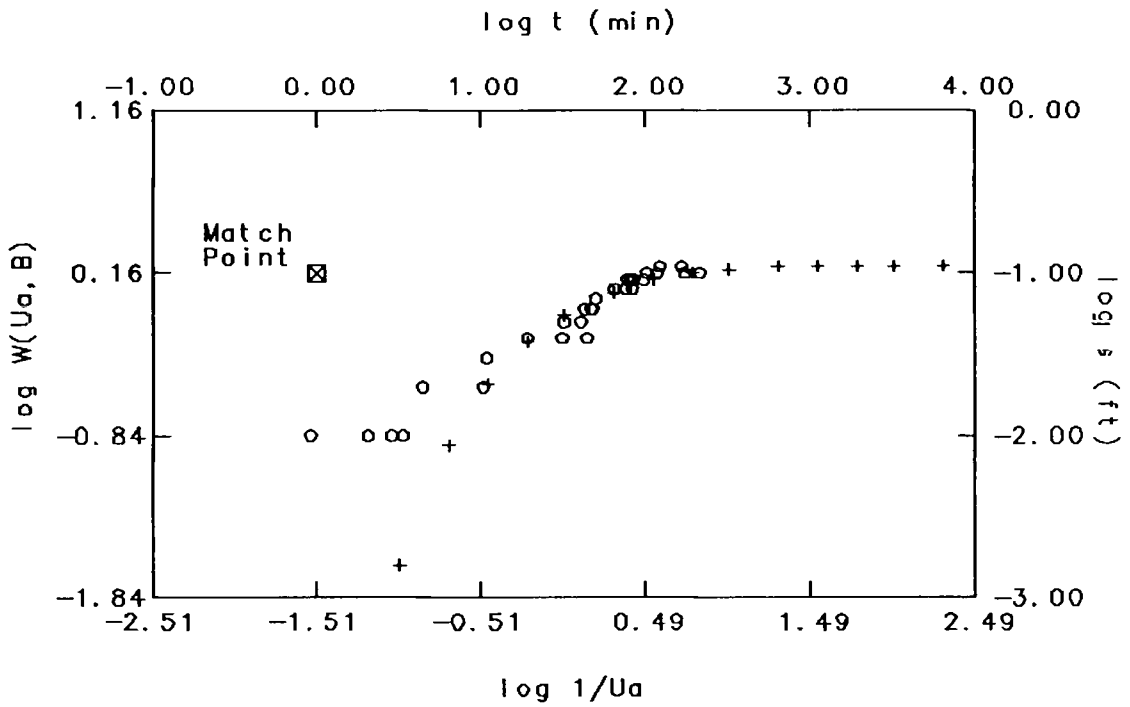
SWEPI GP DRAWDOWN IN GTW-7



o - Data

WELL INFORMATION		
WELL IDENTIFICATION	:	GTW-7
DATE OF AQUIFER TEST	:	01-09-91
AQUIFER THICKNESS (b)	:	2.200E+0001 ft
DISCHARGE RATE (Q)	:	5.260E+0000 gpm
PUMPING WELL RADIUS (r)	:	3.500E-0001 ft
DISTANCE OF OBS. WELL FROM PUMPING WELL (d)	:	4.550E+0001 ft

SWEPI GP GTW-7 LATE DRAWDOWN



MATCH POINT			SOLUTION		
t	=	1.000E+0000	Transmissivity	=	8.711E+0003 gpd/ft
s	=	1.000E-0001	Hydraulic. Cond.	=	3.959E+0002 gpd/sq ft
1/Ua	=	3.090E-0002	Storativity	=	1.264E-0002
W(Ua, B)	=	1.445E+0000			

WELL INFORMATION	
WELL IDENTIFICATION	: SGP GTW7
DATE OF AQUIFER TEST	: 01-09-91
AQUIFER THICKNESS (b)	: 2.200E+0001 ft
DISCHARGE RATE (Q)	: 5.260E+0000 gpm
PUMPING WELL RADIUS (r)	: 3.500E-0001 ft
DISTANCE OF OBS. WELL FROM PUMPING WELL (d)	: 4.550E+0001 ft

GROUNDWATER TECHNOLOGY, INC.

GAS PUMP AREA AQUIFER PUMPING TEST
Shell Western Exploration and Production, Inc.
Huntington Beach, California

RAW PUMP TEST AND RECOVERY DATA

216-325-1801-02
1801-R10.BG/#1

GROUNDWATER TECHNOLOGY, INC.

1:23 HRS 90/01/09 #05												
	7	10.03	8	0.00								
14:24:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:04	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:05	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:09	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:10	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:12	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:13	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:16	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:17	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:18	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:20	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:22	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:24	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:25	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:26	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:28	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:29	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:30	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
:24:32	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
1:24:33	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								

	7	10.03	8	0.00								
14:24:36	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:37	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:38	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:42	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:44	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:45	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:46	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:48	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:49	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:50	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:52	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:53	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:54	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:56	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:57	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:58	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:00	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:04	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:05	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

14:25:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:09	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								

	7	10.03	8	0.00								
14:25:12	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:13	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:16	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:17	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:18	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:20	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:22	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:24	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:25	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:26	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:28	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:29	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:30	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:32	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:33	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:34	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:36	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:37	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:38	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								

14:25:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:42	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:44	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:45	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

	7	10.03	8	0.00							
14:25:48	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:49	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:50	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:52	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:53	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:54	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:56	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:57	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:58	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:00	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:04	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:05	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:09	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:10	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

14:26:12	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:13	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:16	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:17	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:18	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:20	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:21	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

	7	10.03	8	0.00								
14:26:24	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:25	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:26	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:28	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:29	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:30	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:32	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:33	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:34	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:36	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:37	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:38	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:46	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

14:26:51	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:56	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:11	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:16	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.27	6	0.00
	7	10.03	8	0.00								
14:27:26	1	0.00	2	0.00	3	10.52	4	10.04	5	8.07	6	0.00
	7	10.03	8	0.00								
14:27:31	1	0.00	2	0.00	3	10.52	4	10.04	5	7.90	6	0.00
	7	10.03	8	0.00								
14:27:36	1	0.00	2	0.00	3	10.52	4	10.04	5	7.70	6	0.00
	7	10.03	8	0.00								
14:27:41	1	0.00	2	0.00	3	10.52	4	10.04	5	7.51	6	0.00
	7	10.03	8	0.00								

	7	10.03	8	0.00								
14:28:01	1	0.00	2	0.00	3	10.52	4	10.04	5	7.12	6	0.00
	7	10.02	8	0.00								
14:28:11	1	0.00	2	0.00	3	10.52	4	10.04	5	7.02	6	0.00
	7	10.02	8	0.00								
14:28:21	1	0.00	2	0.00	3	10.52	4	10.04	5	7.06	6	0.00
	7	10.02	8	0.00								
14:28:31	1	0.00	2	0.00	3	10.52	4	10.04	5	7.07	6	0.00
	7	10.02	8	0.00								
14:28:41	1	0.00	2	0.00	3	10.51	4	10.04	5	7.08	6	0.00
	7	10.02	8	0.00								
14:28:51	1	0.00	2	0.00	3	10.51	4	10.04	5	7.06	6	0.00
	7	10.02	8	0.00								
14:29:01	1	0.00	2	0.00	3	10.51	4	10.04	5	7.04	6	0.00
	7	10.02	8	0.00								
14:29:11	1	0.00	2	0.00	3	10.51	4	10.04	5	7.05	6	0.00
	7	10.02	8	0.00								
14:29:21	1	0.00	2	0.00	3	10.50	4	10.04	5	6.94	6	0.00
	7	10.03	8	0.00								
14:29:31	1	0.00	2	0.00	3	10.50	4	10.03	5	6.75	6	0.00
	7	10.04	8	0.00								
14:29:41	1	0.00	2	0.00	3	10.50	4	10.03	5	6.69	6	0.00
	7	10.02	8	0.00								
14:30:11	1	0.00	2	0.00	3	10.49	4	10.04	5	6.58	6	0.00
	7	10.02	8	0.00								

:30:41	1	0.00	2	0.00	3	10.49	4	10.04	5	6.52	6	0.00
	7	10.02	8	0.00								
:31:11	1	0.00	2	0.00	3	10.48	4	10.04	5	6.50	6	0.00
	7	10.01	8	0.00								
14:31:41	1	0.00	2	0.00	3	10.48	4	10.04	5	6.44	6	0.00
	7	10.01	8	0.00								
:32:11	1	0.00	2	0.00	3	10.48	4	10.04	5	6.44	6	0.00
	7	10.01	8	0.00								
14:32:41	1	0.00	2	0.00	3	10.48	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
:33:11	1	0.00	2	0.00	3	10.47	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
1:33:41	1	0.00	2	0.00	3	10.47	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:34:11	1	0.00	2	0.00	3	10.46	4	10.04	5	6.47	6	0.00
	7	10.01	8	0.00								
:34:41	1	0.00	2	0.00	3	10.46	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:35:11	1	0.00	2	0.00	3	10.46	4	10.04	5	6.62	6	0.00
	7	10.01	8	0.00								
:35:41	1	0.00	2	0.00	3	10.46	4	10.04	5	7.09	6	0.00
	7	10.01	8	0.00								
14:36:11	1	0.00	2	0.00	3	10.46	4	10.03	5	6.90	6	0.00
	7	10.01	8	0.00								
:36:41	1	0.00	2	0.00	3	10.46	4	10.03	5	6.87	6	0.00
	7	10.01	8	0.00								
:37:11	1	0.00	2	0.00	3	10.46	4	10.03	5	6.87	6	0.00
	7	10.01	8	0.00								

	7	10.00	8	0.00							
14:38:11	1	0.00	2	0.00	3	10.45	4	10.03	5	6.86	6	0.00
	7	10.00	8	0.00								
:38:41	1	0.00	2	0.00	3	10.45	4	10.04	5	6.86	6	0.00
	7	10.00	8	0.00								
:39:11	1	0.00	2	0.00	3	10.45	4	10.04	5	6.86	6	0.00
	7	10.00	8	0.00								
14:39:41	1	0.00	2	0.00	3	10.45	4	10.04	5	6.79	6	0.00
	7	10.00	8	0.00								
:40:41	1	0.00	2	0.00	3	10.45	4	10.03	5	6.73	6	0.00
	7	10.00	8	0.00								
14:41:41	1	0.00	2	0.00	3	10.45	4	10.03	5	6.73	6	0.00
	7	10.00	8	0.00								
:42:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.74	6	0.00
	7	10.00	8	0.00								
:43:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.78	6	0.00
	7	10.00	8	0.00								
14:44:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	10.00	8	0.00								

14:45:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.78	6	0.00
	7	9.99	8	0.00								
14:46:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	9.99	8	0.00								
14:47:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.87	6	0.00
	7	9.99	8	0.00								
14:48:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.87	6	0.00
	7	9.99	8	0.00								
14:49:41	1	0.00	2	0.00	3	10.44	4	10.04	5	6.87	6	0.00
	7	9.99	8	0.00								
14:50:41	1	0.00	2	0.00	3	10.44	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:51:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:52:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:53:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:54:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:55:41	1	0.00	2	0.00	3	10.43	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:56:41	1	0.00	2	0.00	3	10.43	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:57:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	9.99	8	0.00								
14:58:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.98	8	0.00								
14:59:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.98	8	0.00								
15:01:41	1	0.00	2	0.00	3	10.44	4	10.02	5	6.85	6	0.00
	7	9.98	8	0.00								
15:03:41	1	0.00	2	0.00	3	10.44	4	10.02	5	6.85	6	0.00
	7	9.98	8	0.00								

	7	9.98	8	0.00							
15:07:41	1	0.00	2	0.00	3	10.44	4	10.01	5	6.85	6	0.00
	7	9.97	8	0.00								
15:09:41	1	0.00	2	0.00	3	10.43	4	10.02	5	6.85	6	0.00
	7	9.99	8	0.00								
15:11:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.97	8	0.00								
15:13:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.83	6	0.00
	7	9.97	8	0.00								
15:15:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								
15:17:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								

15:19:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								
15:21:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:23:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:25:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:27:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:29:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:31:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:33:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:35:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:37:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.86	6	0.00
	7	9.95	8	0.00								
15:39:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.95	8	0.00								
15:41:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.95	8	0.00								
15:43:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.94	8	0.00								
15:45:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.86	6	0.00
	7	9.94	8	0.00								
15:47:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.86	6	0.00
	7	9.95	8	0.00								
15:49:41	1	0.00	2	0.00	3	10.42	4	10.00	5	6.88	6	0.00
	7	9.94	8	0.00								
15:51:41	1	0.00	2	0.00	3	10.42	4	10.00	5	6.88	6	0.00
	7	9.94	8	0.00								
15:53:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
15:55:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
15:57:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								

	7	9.94	8	0.00							
16:04:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.88	6	0.00
	7	9.93	8	0.00								
16:09:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.77	6	0.00
	7	9.93	8	0.00								
16:14:41	1	0.00	2	0.00	3	10.43	4	9.99	5	6.78	6	0.00
	7	9.93	8	0.00								

_5:19:41	1	0.00	2	0.00	3	10.43	4	9.99	5	6.80	6	0.00
	7	9.93	8	0.00								
5:24:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.80	6	0.00
	7	9.92	8	0.00								
16:29:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.71	6	0.00
	7	9.92	8	0.00								
5:34:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:39:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
5:44:41	1	0.00	2	0.00	3	10.41	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
5:49:41	1	0.00	2	0.00	3	10.41	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:54:41	1	0.00	2	0.00	3	10.41	4	10.00	5	6.70	6	0.00
	7	9.92	8	0.00								
5:59:41	1	0.00	2	0.00	3	10.41	4	10.01	5	6.68	6	0.00
	7	9.92	8	0.00								
17:04:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.68	6	0.00
	7	9.92	8	0.00								
7:09:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.67	6	0.00
	7	9.92	8	0.00								
17:14:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.68	6	0.00
	7	9.93	8	0.00								
17:19:41	1	0.00	2	0.00	3	10.39	4	10.02	5	6.67	6	0.00
	7	9.93	8	0.00								
7:24:41	1	0.00	2	0.00	3	10.39	4	10.01	5	6.66	6	0.00
	7	9.93	8	0.00								
17:29:41	1	0.00	2	0.00	3	10.40	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
7:34:41	1	0.00	2	0.00	3	10.40	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
17:39:41	1	0.00	2	0.00	3	10.39	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
_7:44:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
:49:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
17:54:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
7:59:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.94	8	0.00								
18:09:41	1	0.00	2	0.00	3	10.38	4	10.04	5	6.61	6	0.00
	7	9.94	8	0.00								
8:19:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.61	6	0.00
	7	9.93	8	0.00								

	7	9.93	8	0.00								

_3:39:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
3:49:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
18:59:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
9:09:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.59	6	0.00
	7	9.94	8	0.00								
19:19:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.58	6	0.00
	7	9.94	8	0.00								
9:29:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.57	6	0.00
	7	9.94	8	0.00								
19:39:41	1	0.00	2	0.00	3	10.38	4	10.04	5	6.57	6	0.00
	7	9.95	8	0.00								
19:49:41	1	0.00	2	0.00	3	10.37	4	10.03	5	6.57	6	0.00
	7	9.94	8	0.00								
:59:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.56	6	0.00
	7	9.94	8	0.00								
20:09:41	1	0.00	2	0.00	3	10.38	4	10.02	5	6.56	6	0.00
	7	9.95	8	0.00								
0:19:41	1	0.00	2	0.00	3	10.37	4	10.01	5	6.55	6	0.00
	7	9.95	8	0.00								
20:29:41	1	0.00	2	0.00	3	10.37	4	10.02	5	6.55	6	0.00
	7	9.95	8	0.00								
20:39:41	1	0.00	2	0.00	3	10.37	4	10.02	5	6.54	6	0.00
	7	9.95	8	0.00								
0:49:41	1	0.00	2	0.00	3	10.36	4	10.02	5	6.53	6	0.00
	7	9.95	8	0.00								
20:59:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.95	8	0.00								
.:09:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.94	8	0.00								
21:19:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.94	8	0.00								
__:29:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.50	6	0.00
	7	9.95	8	0.00								
.:39:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.48	6	0.00
	7	9.94	8	0.00								
21:49:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.48	6	0.00
	7	9.94	8	0.00								
.:59:41	1	0.00	2	0.00	3	10.34	4	10.01	5	6.47	6	0.00
	7	9.94	8	0.00								
22:09:41	1	0.00	2	0.00	3	10.34	4	10.01	5	6.47	6	0.00
	7	9.94	8	0.00								
:19:41	1	0.00	2	0.00	3	10.33	4	10.00	5	6.26	6	0.00
	7	9.93	8	0.00								
:29:41	1	0.00	2	0.00	3	10.33	4	10.00	5	6.24	6	0.00
	7	9.94	8	0.00								
22:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.97	6	0.00
	7	9.93	8	0.00								
:49:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.51	6	0.00
	7	9.93	8	0.00								

	7	9.92	8	0.00							
:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
	7	9.93	8	0.00							
23:19:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00							
:29:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00							
:39:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.93	8	0.00							
23:49:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00							
:59:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
/01/09												
	7	9.92	8	0.00							
:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
	7	9.91	8	0.00							
00:19:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.91	8	0.00							
:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.91	8	0.00							
00:39:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.92	8	0.00							
:49:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.50	6	0.00
	7	9.92	8	0.00							
:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.53	6	0.00
	7	9.92	8	0.00							
01:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.58	6	0.00
	7	9.93	8	0.00							
:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.93	8	0.00							
01:29:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.60	6	0.00
	7	9.93	8	0.00							
:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.61	6	0.00
	7	9.92	8	0.00							
:49:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00							
01:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00							
:09:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00							
02:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00							
:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.63	6	0.00
	7	9.92	8	0.00							
:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.93	8	0.00							
02:49:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.61	6	0.00
	7	9.93	8	0.00							
:59:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.62	6	0.00
	7	9.92	8	0.00							
03:09:41	1	0.00	2	0.00	3	10.36	4	9.97	5	6.63	6	0.00
	7	9.92	8	0.00							
:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.63	6	0.00

03:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.62	6	0.00
	7	9.94	8	0.00								
:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.61	6	0.00
	7	9.94	8	0.00								
03:49:41	1	0.00	2	0.00	3	10.37	4	9.97	5	6.62	6	0.00
	7	9.94	8	0.00								
:59:41	1	0.00	2	0.00	3	10.37	4	9.98	5	6.62	6	0.00
	7	9.94	8	0.00								
:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.61	6	0.00
	7	9.96	8	0.00								
04:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.97	8	0.00								
:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.59	6	0.00
	7	9.97	8	0.00								
05:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.96	8	0.00								
:39:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.59	6	0.00
	7	9.97	8	0.00								
:59:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.59	6	0.00
	7	0.00	8	0.00								
06:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.59	6	0.00
	7	9.98	8	0.00								
:39:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.35	6	0.00
	7	9.99	8	0.00								
06:59:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.36	6	0.00
	7	9.99	8	0.00								
:19:41	1	0.00	2	0.00	3	10.36	4	9.99	5	6.38	6	0.00
	7	9.99	8	0.00								
:39:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
07:59:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00

STATION ID = 05

:59 HRS 90/01/10 #05

	7	9.98	8	0.00								
:00:30	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:31	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:33	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:34	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:35	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:36	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:38	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								

:00:39	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:40	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								

	7	9.98	8	0.00							
08:00:43	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:44	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:46	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:47	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:48	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:50	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:51	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:52	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:54	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:55	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:56	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:00:58	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:59	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								

08:00:59	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
:01:00	1	0.00	2	0.00	3	10.35	4	9.98	5	6.57	6	0.00
	7	9.98	8	0.00								
:01:02	1	0.00	2	0.00	3	10.35	4	9.98	5	6.86	6	0.00
	7	9.98	8	0.00								
08:01:03	1	0.00	2	0.00	3	10.35	4	9.98	5	7.11	6	0.00
	7	9.98	8	0.00								
:01:04	1	0.00	2	0.00	3	10.35	4	9.98	5	7.34	6	0.00
	7	9.98	8	0.00								
08:01:06	1	0.00	2	0.00	3	10.35	4	9.98	5	7.53	6	0.00

	7	9.98	8	0.00							
08:01:07	1	0.00	2	0.00	3	10.35	4	9.98	5	7.70	6	0.00
	7	9.98	8	0.00							
8:01:08	1	0.00	2	0.00	3	10.35	4	9.98	5	7.85	6	0.00
	7	9.98	8	0.00							
08:01:10	1	0.00	2	0.00	3	10.35	4	9.98	5	7.96	6	0.00
	7	9.98	8	0.00							
08:01:11	1	0.00	2	0.00	3	10.35	4	9.98	5	8.04	6	0.00
	7	9.98	8	0.00							
8:01:12	1	0.00	2	0.00	3	10.35	4	9.98	5	8.09	6	0.00
	7	9.98	8	0.00							
08:01:14	1	0.00	2	0.00	3	10.35	4	9.98	5	8.12	6	0.00
	7	9.98	8	0.00							
8:01:15	1	0.00	2	0.00	3	10.35	4	9.98	5	8.15	6	0.00
	7	9.98	8	0.00							
08:01:16	1	0.00	2	0.00	3	10.35	4	9.98	5	8.17	6	0.00
	7	9.98	8	0.00							
08:01:18	1	0.00	2	0.00	3	10.35	4	9.98	5	8.18	6	0.00
	7	9.98	8	0.00							
8:01:19	1	0.00	2	0.00	3	10.35	4	9.98	5	8.19	6	0.00
	7	9.99	8	0.00							
08:01:20	1	0.00	2	0.00	3	10.35	4	9.98	5	8.21	6	0.00
	7	9.98	8	0.00							
8:01:22	1	0.00	2	0.00	3	10.35	4	9.98	5	8.22	6	0.00
	7	9.99	8	0.00							
08:01:23	1	0.00	2	0.00	3	10.35	4	9.98	8	5.28	6	0.00
	7	9.99	8	0.00							
8:01:24	1	0.00	2	0.00	3	10.35	4	9.98	5	8.25	6	0.00
	7	9.98	8	0.00							
8:01:25	1	0.00	2	0.00	3	10.35	4	9.98	5	8.26	6	0.00
	7	9.98	8	0.00							
08:01:27	1	0.00	2	0.00	3	10.35	4	9.98	5	8.27	6	0.00
	7	9.98	8	0.00							
8:01:28	1	0.00	2	0.00	3	10.35	4	9.98	5	8.28	6	0.00
	7	9.99	8	0.00							
08:01:29	1	0.00	2	0.00	3	10.35	4	9.98	5	8.29	6	0.00
	7	9.98	8	0.00							
8:01:31	1	0.00	2	0.00	3	10.35	4	9.98	5	8.30	6	0.00
	7	9.99	8	0.00							
8:01:32	1	0.00	2	0.00	3	10.35	4	9.98	5	8.31	6	0.00
	7	9.99	8	0.00							
08:01:33	1	0.00	2	0.00	3	10.35	4	9.98	5	8.32	6	0.00

08:01:35	1	0.00	2	0.00	3	10.35	4	9.98	5	8.33	6	0.00
	7	9.99	8	0.00							
8:01:36	1	0.00	2	0.00	3	10.35	4	9.98	5	8.34	6	0.00
	7	9.99	8	0.00							
08:01:37	1	0.00	2	0.00	3	10.35	4	9.98	5	8.34	6	0.00

	7	9.99	8	0.00							
08:01:39	1	0.00	2	0.00	3	10.36	4	9.98	5	8.35	6	0.00
	7	9.99	8	0.00							
:01:40	1	0.00	2	0.00	3	10.36	4	9.98	5	8.36	6	0.00
	7	9.99	8	0.00							
08:01:41	1	0.00	2	0.00	3	10.36	4	9.98	5	8.36	6	0.00
	7	9.99	8	0.00							
08:01:43	1	0.00	2	0.00	3	10.36	4	9.98	5	8.37	6	0.00
	7	9.99	8	0.00							
:01:44	1	0.00	2	0.00	3	10.36	4	9.98	5	8.38	6	0.00
	7	9.99	8	0.00							
08:01:45	1	0.00	2	0.00	3	10.36	4	9.98	5	8.38	6	0.00
	7	9.99	8	0.00							
:01:47	1	0.00	2	0.00	3	10.36	4	9.98	5	8.39	6	0.00
	7	9.99	8	0.00							
08:01:48	1	0.00	2	0.00	3	10.36	4	9.98	5	8.39	6	0.00
	7	9.99	8	0.00							
08:01:49	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00							
:01:51	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00							
08:01:52	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00							
:01:53	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00							
08:01:55	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00							
:01:56	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00							
:01:57	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00							
08:01:59	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00							
:02:00	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00							
08:02:01	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00							
:02:03	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00							
08:02:04	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00							
08:02:05	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00							
:02:07	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00
	7	9.99	8	0.00							
08:02:08	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00
	7	9.99	8	0.00							
:02:09	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00

08:02:11	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
:02:12	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:13	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:15	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
:02:16	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:02:17	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
:02:19	1	0.00	2	0.00	3	10.37	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:02:20	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:02:21	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:02:23	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:24	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:02:25	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:27	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:02:28	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:02:29	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:31	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:02:32	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:33	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:02:35	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:02:36	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
08:02:37	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
:02:39	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:40	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:02:41	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.07	8	0.00								
:02:43	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
08:02:44	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.05	8	0.00								
:02:45	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00

08:02:47	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.07	8	0.00								
08:02:48	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.07	8	0.00								
08:02:49	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.08	8	0.00								
08:02:51	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.08	8	0.00								
08:02:52	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	10.46	8	0.00								
08:02:53	1	0.00	2	0.00	3	10.36	4	9.96	5	8.46	6	0.00
	7	10.08	8	0.00								
08:02:55	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.08	8	0.00								
08:02:56	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:02:57	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:02:59	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:00	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:01	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:03	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:04	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:05	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:07	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:08	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:09	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:14	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:19	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:24	1	0.00	2	0.00	3	10.38	4	9.98	5	8.49	6	0.00
	7	10.08	8	0.00								
08:03:29	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:34	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	10.09	8	0.00								
08:03:39	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	10.11	8	0.00								
08:03:44	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	10.11	8	0.00								
08:03:49	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:54	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00

:03:59	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:04	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
:04:09	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
:04:19	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:29	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
:04:39	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:04:49	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:04:59	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
:05:09	1	0.00	2	0.00	3	10.40	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:05:19	1	0.00	2	0.00	3	10.39	4	9.97	5	8.46	6	0.00
	7	9.99	8	0.00								
:05:29	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:05:39	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:05:49	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:05:59	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:06:09	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:06:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:07:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
:07:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:08:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:08:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:09:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								
08:09:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								
:10:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
:10:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00

	7	10.00	8	0.00							
08:11:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.08	8	0.00							
:11:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00							
08:12:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00

:12:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:13:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:13:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:14:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:14:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:15:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:15:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:16:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:17:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:18:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.07	8	0.00							
08:19:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:20:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:21:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.09	8	0.00							
08:22:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
:23:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:24:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00							
08:25:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00
	7	10.00	8	0.00							
:26:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00
	7	10.01	8	0.00							
S;SJ* 1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00	

SWEPI GAS PUMPS PUMPING TEST

1	0.17	1	0.17	1	0.16	3	10.40	1	0.57	2	0.01
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
1	0.17	1	0.17	1	0.17	1	0.17	1	0.17	1	0.17
4	6.64	4	9.60	4	7.42	1	0.18	1	0.03	1	0.14
4	6.64	2	0.74	4	6.64	3	0.74	3	8.12	1	0.00
1	0.00	4	6.64	5	0.74	4	6.64	3	7.38	4	8.12
4	9.60	4	6.64	2	0.74	4	6.64	3	0.74	3	8.12
3	0.74	3	8.12	1	0.00	4	6.64	4	8.86	4	6.64
4	8.86	4	6.64	4	9.60	4	6.64	2	0.74	4	6.64
2	0.74	4	6.64	3	0.74	3	8.12	1	0.00	4	6.64
1	0.00	4	6.64	4	8.86	4	6.64	4	9.60	4	6.64
4	8.12	4	6.64	2	0.74	4	6.64	3	0.74	3	8.12
4	6.64	3	0.74	3	8.12	1	0.00	4	6.64	1	7.38
4	6.64	4	8.86	4	6.64	4	9.60	4	6.64	2	0.74
4	6.64	2	0.74	4	6.64	3	0.74	3	8.12	1	0.00
4	7.38	4	7.21	5	5.91	1	0.74	4	6.64	4	1.48
4	6.64	2	0.74	4	6.64	3	0.74	3	8.12	1	0.00
2	0.74	4	6.64	3	0.74	4	6.64	1	7.38	4	8.12
4	6.64	3	0.74	4	6.64	1	7.38	4	8.12	4	6.64
3	0.74	4	6.64	1	7.38	4	8.12	4	6.64	2	0.74
4	6.64	1	7.38	4	8.12	4	6.64	2	0.74	4	6.64
1	7.38	4	8.12	4	6.64	2	0.74	4	6.64	3	0.74
4	8.12	4	6.64	2	0.74	4	6.64	3	0.74	4	6.64
4	6.64	2	0.74	4	6.64	3	0.74	4	6.64	1	7.38
2	0.74	4	6.64	3	0.74	4	6.64	1	7.38	4	8.12
4	6.64	2	0.74	4	6.64	1	7.38	4	8.12	4	6.64
4	8.12	4	6.64	2	0.74	4	6.64	1	7.38	4	8.12
1	7.38	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38
4	6.64	1	7.38	4	8.12	4	6.64	2	0.74	4	6.64
2	0.74	4	6.64	1	7.38	4	8.12	4	6.64	2	0.74
4	6.64	2	0.74	4	6.64	1	7.38	4	8.12	4	6.64
4	8.12	4	6.64	2	0.74	4	6.64	1	7.38	4	8.12
1	7.38	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38
4	6.64	1	7.38	4	8.12	4	6.64	2	0.74	4	6.64

SWEPI GAS PUMPS PUMPING TEST

	2	0.74	4	6.64	1	7.38	4	8.12	4	6.64	2	0.74
	4	6.64	2	0.74	8	5.17	1	7.38	4	8.12	4	6.64
	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38	4	8.12
	1	7.38	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38
	4	6.64	1	7.38	4	8.12	4	6.64	2	0.74	4	6.64
	2	0.74	4	6.64	1	7.38	4	8.12	4	6.64	2	0.74
	4	6.64	2	0.74	4	6.64	1	7.38	4	8.12	4	6.64
	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38	4	8.12
	3	7.38	4	8.12	4	6.64	2	0.74	4	6.64	1	7.38
I5:H6:00	1	1.48	4	6.64	1	0.00	4	6.64	5	0.74	4	6.64
	7	0.00	8	0.00								
09:47:04	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:06	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:07	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:08	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:09	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:10	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:11	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:12	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:13	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:16	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:17	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:18	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:19	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:20	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:21	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:22	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:23	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:25	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:26	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:27	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00								
09:47:28	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
09:47:29	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:30	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:31	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:32	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:34	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:35	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:36	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:37	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:38	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:39	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:40	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:41	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:43	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:44	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:46	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:47	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:48	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:49	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:50	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:51	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:53	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:54	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:55	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:56	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:57	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:47:58	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
09:47:59	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:00	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:02	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:03	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:04	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:05	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:06	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:07	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:08	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:09	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:10	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:12	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:13	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:14	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:20	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:25	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:30	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:35	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:40	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:50	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:48:55	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:00	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:05	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:10	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
09:49:25	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:35	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:49:55	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:05	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:25	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:35	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:50:55	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:51:05	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:51:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:51:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:52:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:52:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:53:15	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:53:45	1	0.57	2	0.01	3	0.04	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:54:15	1	0.57	2	0.01	3	0.00	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:54:45	1	0.57	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:55:15	1	0.57	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:55:45	1	0.57	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	1	0.00	8	0.00							
09:56:15	1	0.33	2	0.01	1	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:56:45	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:57:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:57:45	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:58:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:58:45	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
09:59:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
09:59:45	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:00:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:00:45	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:01:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:02:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:03:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:04:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:05:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:06:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:07:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:08:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:09:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:10:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
00:11:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:12:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:13:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:14:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:15:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:16:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:17:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:18:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:19:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:20:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:21:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:23:15	1	0.58	2	0.01	3	0.01	4	0.00	5	0.00	6	0.00
	7	0.00	8	0.00							
10:25:15	1	0.58	2	0.12	3	0.01	4	0.00	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00								
10:27:15	1	0.57	2	0.15	3	0.13	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00								
10:29:15	1	0.57	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:31:15	1	0.57	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:33:15	1	0.57	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:35:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:37:15	1	0.58	2	0.15	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
10:39:15	1	0.58	2	0.15	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
10:41:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:43:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:45:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:47:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:49:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:51:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:53:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:55:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:57:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
10:59:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:01:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
	7	0.00	8	0.00								
11:05:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:07:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:09:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:11:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:13:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:15:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:17:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00								
11:19:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
11:21:15	1	0.58	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:26:15	1	0.57	2	0.15	3	0.13	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:31:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:36:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:41:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:46:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:51:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
11:56:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:01:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:06:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:11:15	1	0.57	2	0.15	3	0.14	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00							
12:16:15	1	0.57	2	0.15	3	0.14	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00							
12:21:15	1	0.57	2	0.15	3	0.14	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00							
12:26:15	1	0.57	2	0.15	3	0.14	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00							
12:31:15	1	0.57	2	0.15	3	0.14	4	0.12	5	0.00	6	0.00
	7	0.00	8	0.00							
12:36:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:41:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:46:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:51:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
12:56:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:01:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:06:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:11:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:16:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:21:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:31:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
13:41:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
13:51:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:01:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:11:15	1	0.58	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:21:15	1	0.58	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:31:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:41:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
14:51:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:01:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:11:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:21:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:31:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:41:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
15:51:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:01:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:11:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:21:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:31:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:41:15	1	0.57	2	0.16	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
16:51:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:01:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:11:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:21:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:31:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:41:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
17:51:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
18:01:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
18:11:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
18:21:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
18:31:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
18:41:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
18:51:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:01:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:11:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:21:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:31:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:41:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
19:51:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
20:01:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
20:11:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
20:21:15	1	0.57	2	0.15	3	0.14	4	0.11	5	0.00	6	0.00
	7	0.00	8	0.00							
20:31:15	1	0.57	2	0.15	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
20:41:15	1	0.57	2	0.15	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
20:51:15	1	0.57	2	0.15	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:01:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:11:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:21:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:31:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:41:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
21:51:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
22:01:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
22:11:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
22:21:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
22:31:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
22:41:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
22:51:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
23:01:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
23:11:15	1	0.57	2	0.14	3	0.14	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
23:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
23:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
90/01/04												
	7	0.00	8	0.00							
00:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
00:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
00:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
01:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
01:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
01:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
02:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
02:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
02:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
03:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
03:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
03:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
04:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
04:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
04:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
05:01:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
05:21:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
05:41:15	1	0.57	2	0.14	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							
06:01:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
06:21:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
06:41:15	1	0.57	2	0.13	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00							

SWEPI GAS PUMPS PUMPING TEST

07:01:15	1	0.57	2	0.13	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
07:21:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
07:41:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
08:01:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
08:21:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
08:41:15	1	0.57	2	0.13	3	0.13	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
09:01:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
09:21:15	1	0.57	2	0.13	3	0.13	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
09:41:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
10:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
10:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
10:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
11:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
11:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
11:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
12:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
12:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
12:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
13:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
13:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
13:41:15	1	0.56	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
14:01:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
14:21:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
14:41:15	1	0.56	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
15:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
15:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
15:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

16:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
16:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
16:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
17:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
17:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
17:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
18:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
18:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
18:41:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
19:01:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
19:21:15	1	0.57	2	0.13	3	0.12	4	0.10	5	0.00	6	0.00
	7	0.00	8	0.00								
20:21:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
21:21:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
22:21:15	1	0.57	2	0.13	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
23:21:15	1	0.57	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
90/01/05												
	7	0.00	8	0.00								
00:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
01:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
02:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
03:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
04:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
05:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
06:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
07:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
08:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
09:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
10:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00								
11:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
12:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
13:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
14:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
15:21:15	1	0.56	2	0.12	3	0.11	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
16:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
17:21:15	1	0.56	2	0.12	3	0.12	4	0.09	5	0.00	6	0.00
	7	0.00	8	0.00							
18:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
19:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
20:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
21:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
22:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
23:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
90/01/06												
	7	0.00	8	0.00							
00:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
01:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
02:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
03:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
04:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
05:21:15	1	0.56	2	0.11	3	0.11	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
06:21:15	1	0.56	2	0.11	3	0.10	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
07:21:15	1	0.56	2	0.11	3	0.10	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
08:21:15	1	0.56	2	0.11	3	0.10	4	0.08	5	0.00	6	0.00
	7	0.00	8	0.00							
09:21:15	1	0.56	2	0.11	3	0.10	4	0.07	5	0.00	6	0.00
	7	0.00	8	0.00							
18:53:33	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:34	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							
18:53:36	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00							

SWEPI GAS PUMPS PUMPING TEST

18:53:37	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:41	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:42	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:53:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:53:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:47	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.40	6	0.00
	7	0.00	8	0.00								
18:53:49	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:53:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:53:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:53:53	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:53:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:53:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:53:56	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:53:58	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:53:59	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:54:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:01	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:54:02	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:54:03	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:54:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:54:06	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:07	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:08	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

18:54:09	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:11	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:12	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:13	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:14	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:17	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:18	1	0.00	2	0.00	3	0.00	4	0.00	5	3.41	6	0.00
	7	0.00	8	0.00								
18:54:19	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:21	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:22	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:24	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:26	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:27	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:28	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:31	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:32	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:33	1	0.00	2	0.00	3	0.00	4	0.00	5	3.42	6	0.00
	7	0.00	8	0.00								
18:54:34	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:37	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:38	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

18:54:41	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:44	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:47	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:51	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:53	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:56	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:57	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:58	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:54:59	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:01	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:03	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:04	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:06	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:07	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:09	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:10	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:11	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:12	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

18:55:13	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:16	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:17	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:18	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:19	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:22	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:23	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:24	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.43	6	0.00
	7	0.00	8	0.00								
18:55:26	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:28	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:29	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:31	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:32	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:33	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:36	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:37	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:38	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:39	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:41	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:42	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:43	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:44	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

18:55:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:46	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:48	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:49	1	0.00	2	0.00	3	0.00	5	3.69	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:51	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:52	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:54	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:55:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:00	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:10	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:20	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:30	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.44	6	0.00
	7	0.00	8	0.00								
18:56:40	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:50	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:56:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:57:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

18:58:05	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:15	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:35	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:45	1	0.00	2	0.00	3	0.00	4	0.00	5	3.45	6	0.00
	7	0.00	8	0.00								
18:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
18:59:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
18:59:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:00:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:00:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:01:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:01:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:02:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.46	6	0.00
	7	0.00	8	0.00								
19:02:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:03:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:03:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:04:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:04:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:05:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:05:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:06:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:06:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:07:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:07:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:08:25	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								
19:09:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.47	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

19:10:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.48	6	0.00
	7	0.00	8	0.00								
19:11:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
19:12:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.48	6	0.00
	7	0.00	8	0.00								
19:13:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:14:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:15:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:16:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:17:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:19:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:20:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:21:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00								
19:22:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:23:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:24:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:25:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:26:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:27:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
19:30:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
19:32:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
19:34:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.55	6	0.00
	7	0.00	8	0.00								
19:36:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
19:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:40:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:42:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:44:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

19:46:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
19:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:50:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:52:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:54:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:56:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
19:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:00:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:02:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:04:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:06:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:10:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:12:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:14:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:16:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:20:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:22:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:24:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:26:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:33:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:43:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
20:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
20:53:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

20:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:03:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:13:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:23:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
21:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:33:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:43:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:53:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
21:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.56	6	0.00
	7	0.00	8	0.00								
22:03:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00								
22:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:13:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:23:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
22:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
23:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
23:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
23:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
23:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
23:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

23:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
90/01/08												
	7	0.00	8	0.00								
00:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
00:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
00:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
00:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
00:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
00:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
01:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00								
01:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
01:28.55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
01:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
01:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
01:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
02:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
02:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
02:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
02:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
02:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
02:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
03:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
03:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00								
03:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
03:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
03:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00								
03:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
04:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00								
04:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
04:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
04:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
04:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
04:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
05:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
05:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
05:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
05:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
05:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
05:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
06:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
06:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00							
06:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.54	6	0.00
	7	0.00	8	0.00							
06:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.53	6	0.00
	7	0.00	8	0.00							
06:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00							
06:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
07:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
07:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
07:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
07:38:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.51	6	0.00
	7	0.00	8	0.00							
07:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
07:58:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.50	6	0.00
	7	0.00	8	0.00							
08:08:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00							
08:18:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00							
08:28:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00							
08:48:55	1	0.00	2	0.00	3	0.00	4	0.00	5	3.49	6	0.00
	7	0.00	8	0.00							
09:08:55	1	0.00	2	0.00	3	7.61	4	0.00	5	3.50	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	0.00	8	0.00							
09:28:55	1	0.00	2	0.00	3	10.50	4	0.00	5	3.50	6	0.00
	7	11.81	8	11.81							
09:49:01	1	6.76	2	1.88	3	11.81	4	11.81	5	8.17	6	11.81
	7	0.00	8	0.00							
10:08:55	1	0.00	2	0.00	3	10.52	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00							
10:28:55	1	0.00	2	0.00	3	10.52	4	0.00	5	3.52	6	0.00
	7	0.00	8	0.00							
10:48:57	1	0.00	2	0.00	3	11.03	4	0.00	5	4.05	6	11.81
	7	0.00	8	0.00							
	7	0.00	8	0.00							
11:28:55	1	0.00	2	0.00	3	10.53	4	0.00	5	3.54	6	0.00
	7	10.04	8	0.00							
11:48:55	1	0.00	2	0.00	3	10.52	4	0.00	5	3.55	6	0.00
	7	10.08	8	0.00							
12:08:55	1	0.00	2	0.00	3	10.56	4	10.07	5	3.55	6	0.00
	7	10.07	8	0.00							
12:28:55	1	0.00	2	0.00	3	10.56	4	10.06	5	3.56	6	0.00
	7	10.03	8	0.00							
12:48:55	1	0.00	2	0.00	3	10.55	4	10.08	5	3.55	6	0.00
	7	10.03	8	0.00							
13:08:55	1	0.00	2	0.00	3	10.54	4	10.09	5	3.55	6	0.00
	7	10.03	8	0.00							
13:28:55	1	0.00	2	0.00	3	10.55	4	10.09	5	3.55	6	0.00
	7	10.03	8	0.00							
13:48:55	1	0.00	2	0.00	3	10.54	4	10.07	5	3.55	6	0.00
	7	10.01	8	0.00							
14:08:55	1	0.00	2	0.00	3	10.54	4	10.05	5	0.08	6	0.00

STATION ID = 05

14:23 HRS 90/01/09 #05

	7	10.03	8	0.00							
14:24:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:04	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:05	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:09	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:10	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:12	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00							
14:24:13	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00							

SWEPI GAS PUMPS PUMPING TEST

14:24:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:16	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:17	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:18	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:20	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:22	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:24	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:25	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:26	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:28	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:29	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:30	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:32	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:33	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:34	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:36	1	0.00	2	0.00	3	10.53	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:37	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:38	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:42	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:44	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:45	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:46	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:48	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:49	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

14:24:50	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:52	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:53	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:54	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:56	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:57	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:24:58	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:00	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:04	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:05	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:09	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:10	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:12	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:13	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:16	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:17	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:18	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:20	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:22	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:24	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:25	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								

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14:25:26	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:28	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:29	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:30	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:32	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:33	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:34	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:36	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:37	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:38	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:42	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:44	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:45	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:46	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:48	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:49	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:50	1	0.00	2	0.00	3	10.52	4	10.04	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:52	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:53	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:54	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:56	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:57	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:25:58	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:00	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

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14:26:02	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:04	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:05	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:08	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:09	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:10	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:12	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:13	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:14	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:16	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:17	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:18	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:20	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:21	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:22	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:24	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:25	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:26	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:28	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:29	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:30	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:32	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:33	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:34	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:36	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:37	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								

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14:26:38	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:40	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:41	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:46	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:51	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:26:56	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:01	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:06	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:11	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:16	1	0.00	2	0.00	3	10.52	4	10.03	5	8.61	6	0.00
	7	10.03	8	0.00								
14:27:21	1	0.00	2	0.00	3	10.52	4	10.04	5	8.27	6	0.00
	7	10.03	8	0.00								
14:27:26	1	0.00	2	0.00	3	10.52	4	10.04	5	8.07	6	0.00
	7	10.03	8	0.00								
14:27:31	1	0.00	2	0.00	3	10.52	4	10.04	5	7.90	6	0.00
	7	10.03	8	0.00								
14:27:36	1	0.00	2	0.00	3	10.52	4	10.04	5	7.70	6	0.00
	7	10.03	8	0.00								
14:27:41	1	0.00	2	0.00	3	10.52	4	10.04	5	7.51	6	0.00
	7	10.03	8	0.00								
14:27:51	1	0.00	2	0.00	3	10.52	4	10.04	5	7.24	6	0.00
	7	10.03	8	0.00								
14:28:01	1	0.00	2	0.00	3	10.52	4	10.04	5	7.12	6	0.00
	7	10.02	8	0.00								
14:28:11	1	0.00	2	0.00	3	10.52	4	10.04	5	7.02	6	0.00
	7	10.02	8	0.00								
14:28:21	1	0.00	2	0.00	3	10.52	4	10.04	5	7.06	6	0.00
	7	10.02	8	0.00								
14:28:31	1	0.00	2	0.00	3	10.52	4	10.04	5	7.07	6	0.00
	7	10.02	8	0.00								
14:28:41	1	0.00	2	0.00	3	10.51	4	10.04	5	7.08	6	0.00
	7	10.02	8	0.00								
14:28:51	1	0.00	2	0.00	3	10.51	4	10.04	5	7.06	6	0.00
	7	10.02	8	0.00								
14:29:01	1	0.00	2	0.00	3	10.51	4	10.04	5	7.04	6	0.00
	7	10.02	8	0.00								
14:29:11	1	0.00	2	0.00	3	10.51	4	10.04	5	7.05	6	0.00
	7	10.02	8	0.00								
14:29:21	1	0.00	2	0.00	3	10.50	4	10.04	5	6.94	6	0.00
	7	10.03	8	0.00								
14:29:31	1	0.00	2	0.00	3	10.50	4	10.03	5	6.75	6	0.00
	7	10.04	8	0.00								
14:29:41	1	0.00	2	0.00	3	10.50	4	10.03	5	6.69	6	0.00
	7	10.02	8	0.00								

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14:30:11	1	0.00	2	0.00	3	10.49	4	10.04	5	6.58	6	0.00
	7	10.02	8	0.00								
14:30:41	1	0.00	2	0.00	3	10.49	4	10.04	5	6.52	6	0.00
	7	10.02	8	0.00								
14:31:11	1	0.00	2	0.00	3	10.48	4	10.04	5	6.50	6	0.00
	7	10.01	8	0.00								
14:31:41	1	0.00	2	0.00	3	10.48	4	10.04	5	6.44	6	0.00
	7	10.01	8	0.00								
14:32:11	1	0.00	2	0.00	3	10.48	4	10.04	5	6.44	6	0.00
	7	10.01	8	0.00								
14:32:41	1	0.00	2	0.00	3	10.48	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:33:11	1	0.00	2	0.00	3	10.47	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:33:41	1	0.00	2	0.00	3	10.47	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:34:11	1	0.00	2	0.00	3	10.46	4	10.04	5	6.47	6	0.00
	7	10.01	8	0.00								
14:34:41	1	0.00	2	0.00	3	10.46	4	10.04	5	6.48	6	0.00
	7	10.01	8	0.00								
14:35:11	1	0.00	2	0.00	3	10.46	4	10.04	5	6.62	6	0.00
	7	10.01	8	0.00								
14:35:41	1	0.00	2	0.00	3	10.46	4	10.04	5	7.09	6	0.00
	7	10.01	8	0.00								
14:36:11	1	0.00	2	0.00	3	10.46	4	10.03	5	6.90	6	0.00
	7	10.01	8	0.00								
14:36:41	1	0.00	2	0.00	3	10.46	4	10.03	5	6.87	6	0.00
	7	10.01	8	0.00								
14:37:11	1	0.00	2	0.00	3	10.46	4	10.03	5	6.87	6	0.00
	7	10.01	8	0.00								
14:37:41	1	0.00	2	0.00	3	10.46	4	10.03	5	6.87	6	0.00
	7	10.00	8	0.00								
14:38:11	1	0.00	2	0.00	3	10.45	4	10.03	5	6.86	6	0.00
	7	10.00	8	0.00								
14:38:41	1	0.00	2	0.00	3	10.45	4	10.04	5	6.86	6	0.00
	7	10.00	8	0.00								
14:39:11	1	0.00	2	0.00	3	10.45	4	10.04	5	6.86	6	0.00
	7	10.00	8	0.00								
14:39:41	1	0.00	2	0.00	3	10.45	4	10.04	5	6.79	6	0.00
	7	10.00	8	0.00								
14:40:41	1	0.00	2	0.00	3	10.45	4	10.03	5	6.73	6	0.00
	7	10.00	8	0.00								
14:41:41	1	0.00	2	0.00	3	10.45	4	10.03	5	6.73	6	0.00
	7	10.00	8	0.00								
14:42:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.74	6	0.00
	7	10.00	8	0.00								
14:43:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.78	6	0.00
	7	10.00	8	0.00								
14:44:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	10.00	8	0.00								
14:45:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.78	6	0.00
	7	9.99	8	0.00								
14:46:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	9.99	8	0.00								

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14:47:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.87	6	0.00
	7	9.99	8	0.00								
14:48:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.87	6	0.00
	7	9.99	8	0.00								
14:49:41	1	0.00	2	0.00	3	10.44	4	10.04	5	6.87	6	0.00
	7	9.99	8	0.00								
14:50:41	1	0.00	2	0.00	3	10.44	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:51:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:52:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:53:41	1	0.00	2	0.00	3	10.43	4	10.04	5	6.85	6	0.00
	7	9.99	8	0.00								
14:54:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:55:41	1	0.00	2	0.00	3	10.43	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:56:41	1	0.00	2	0.00	3	10.43	4	10.03	5	6.85	6	0.00
	7	9.99	8	0.00								
14:57:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.86	6	0.00
	7	9.99	8	0.00								
14:58:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.98	8	0.00								
14:59:41	1	0.00	2	0.00	3	10.44	4	10.03	5	6.85	6	0.00
	7	9.98	8	0.00								
15:01:41	1	0.00	2	0.00	3	10.44	4	10.02	5	6.85	6	0.00
	7	9.98	8	0.00								
15:03:41	1	0.00	2	0.00	3	10.44	4	10.02	5	6.85	6	0.00
	7	9.98	8	0.00								
15:05:41	1	0.00	2	0.00	3	10.44	4	10.01	5	6.84	6	0.00
	7	9.98	8	0.00								
15:07:41	1	0.00	2	0.00	3	10.44	4	10.01	5	6.85	6	0.00
	7	9.97	8	0.00								
15:09:41	1	0.00	2	0.00	3	10.43	4	10.02	5	6.85	6	0.00
	7	9.99	8	0.00								
15:11:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.97	8	0.00								
15:13:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.83	6	0.00
	7	9.97	8	0.00								
15:15:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								
15:17:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								
15:19:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.84	6	0.00
	7	9.96	8	0.00								
15:21:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:23:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:25:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								
15:27:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.96	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

15:29:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:31:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:33:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:35:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.84	6	0.00
	7	9.95	8	0.00								
15:37:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.86	6	0.00
	7	9.95	8	0.00								
15:39:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.95	8	0.00								
15:41:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.95	8	0.00								
15:43:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.87	6	0.00
	7	9.94	8	0.00								
15:45:41	1	0.00	2	0.00	3	10.43	4	10.01	5	6.86	6	0.00
	7	9.94	8	0.00								
15:47:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.86	6	0.00
	7	9.95	8	0.00								
15:49:41	1	0.00	2	0.00	3	10.42	4	10.00	5	6.88	6	0.00
	7	9.94	8	0.00								
15:51:41	1	0.00	2	0.00	3	10.42	4	10.00	5	6.88	6	0.00
	7	9.94	8	0.00								
15:53:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
15:55:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
15:57:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
15:59:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.89	6	0.00
	7	9.94	8	0.00								
16:04:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.88	6	0.00
	7	9.93	8	0.00								
16:09:41	1	0.00	2	0.00	3	10.43	4	10.00	5	6.77	6	0.00
	7	9.93	8	0.00								
16:14:41	1	0.00	2	0.00	3	10.43	4	9.99	5	6.78	6	0.00
	7	9.93	8	0.00								
16:19:41	1	0.00	2	0.00	3	10.43	4	9.99	5	6.80	6	0.00
	7	9.93	8	0.00								
16:24:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.80	6	0.00
	7	9.92	8	0.00								
16:29:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.71	6	0.00
	7	9.92	8	0.00								
16:34:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:39:41	1	0.00	2	0.00	3	10.42	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:44:41	1	0.00	2	0.00	3	10.41	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:49:41	1	0.00	2	0.00	3	10.41	4	9.99	5	6.70	6	0.00
	7	9.92	8	0.00								
16:54:41	1	0.00	2	0.00	3	10.41	4	10.00	5	6.70	6	0.00
	7	9.92	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

16:59:41	1	0.00	2	0.00	3	10.41	4	10.01	5	6.68	6	0.00
	7	9.92	8	0.00								
17:04:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.68	6	0.00
	7	9.92	8	0.00								
17:09:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.67	6	0.00
	7	9.92	8	0.00								
17:14:41	1	0.00	2	0.00	3	10.40	4	10.01	5	6.68	6	0.00
	7	9.93	8	0.00								
17:19:41	1	0.00	2	0.00	3	10.39	4	10.02	5	6.67	6	0.00
	7	9.93	8	0.00								
17.24:41	1	0.00	2	0.00	3	10.39	4	10.01	5	6.66	6	0.00
	7	9.93	8	0.00								
17:29:41	1	0.00	2	0.00	3	10.40	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
17:34:41	1	0.00	2	0.00	3	10.40	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
17:39:41	1	0.00	2	0.00	3	10.39	4	10.02	5	6.65	6	0.00
	7	9.93	8	0.00								
17:44:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
17:49:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
17:54:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.93	8	0.00								
17:59:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.63	6	0.00
	7	9.94	8	0.00								
18:09:41	1	0.00	2	0.00	3	10.38	4	10.04	5	6.61	6	0.00
	7	9.94	8	0.00								
18:19:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.61	6	0.00
	7	9.93	8	0.00								
18:29:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
18:39:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
18:49:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
18:59:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.60	6	0.00
	7	9.93	8	0.00								
19:09:41	1	0.00	2	0.00	3	10.39	4	10.03	5	6.59	6	0.00
	7	9.94	8	0.00								
19:19:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.58	6	0.00
	7	9.94	8	0.00								
19:29:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.57	6	0.00
	7	9.94	8	0.00								
19:39:41	1	0.00	2	0.00	3	10.38	4	10.04	5	6.57	6	0.00
	7	9.95	8	0.00								
19:49:41	1	0.00	2	0.00	3	10.37	4	10.03	5	6.57	6	0.00
	7	9.94	8	0.00								
19:59:41	1	0.00	2	0.00	3	10.38	4	10.03	5	6.56	6	0.00
	7	9.94	8	0.00								
20:09:41	1	0.00	2	0.00	3	10.38	4	10.02	5	6.56	6	0.00
	7	9.95	8	0.00								
20:19:41	1	0.00	2	0.00	3	10.37	4	10.01	5	6.55	6	0.00
	7	9.95	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

20:29:41	1	0.00	2	0.00	3	10.37	4	10.02	5	6.55	6	0.00
	7	9.95	8	0.00								
20:39:41	1	0.00	2	0.00	3	10.37	4	10.02	5	6.54	6	0.00
	7	9.95	8	0.00								
20:49:41	1	0.00	2	0.00	3	10.36	4	10.02	5	6.53	6	0.00
	7	9.95	8	0.00								
20:59:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.95	8	0.00								
21:09:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.94	8	0.00								
21:19:41	1	0.00	2	0.00	3	10.36	4	10.01	5	6.53	6	0.00
	7	9.94	8	0.00								
21:29:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.50	6	0.00
	7	9.95	8	0.00								
21:39:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.48	6	0.00
	7	9.94	8	0.00								
21:49:41	1	0.00	2	0.00	3	10.35	4	10.01	5	6.48	6	0.00
	7	9.94	8	0.00								
21:59:41	1	0.00	2	0.00	3	10.34	4	10.01	5	6.47	6	0.00
	7	9.94	8	0.00								
22:09:41	1	0.00	2	0.00	3	10.34	4	10.01	5	6.47	6	0.00
	7	9.94	8	0.00								
22:19:41	1	0.00	2	0.00	3	10.33	4	10.00	5	6.26	6	0.00
	7	9.93	8	0.00								
22:29:41	1	0.00	2	0.00	3	10.33	4	10.00	5	6.24	6	0.00
	7	9.94	8	0.00								
22:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.97	6	0.00
	7	9.93	8	0.00								
22:49:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.51	6	0.00
	7	9.93	8	0.00								
22:59:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.52	6	0.00
	7	9.92	8	0.00								
23:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
	7	9.93	8	0.00								
23:19:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00								
23:29:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00								
23:39:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.93	8	0.00								
23:49:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.50	6	0.00
	7	9.92	8	0.00								
23:59:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
90/01/09												
	7	9.92	8	0.00								
00:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.50	6	0.00
	7	9.91	8	0.00								
00:19:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.91	8	0.00								
00:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.91	8	0.00								
00:39:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.51	6	0.00
	7	9.92	8	0.00								
00:49:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.50	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	9.92	8	0.00								
00:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.53	6	0.00
	7	9.92	8	0.00								
01:09:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.58	6	0.00
	7	9.93	8	0.00								
01:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.93	8	0.00								
01:29:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.60	6	0.00
	7	9.93	8	0.00								
01:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.61	6	0.00
	7	9.92	8	0.00								
01:49:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00								
01:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00								
02:09:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00								
02:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.92	8	0.00								
02:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.63	6	0.00
	7	9.92	8	0.00								
02:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.62	6	0.00
	7	9.93	8	0.00								
02:49:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.61	6	0.00
	7	9.93	8	0.00								
02:59:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.62	6	0.00
	7	9.92	8	0.00								
03:09:41	1	0.00	2	0.00	3	10.36	4	9.97	5	6.63	6	0.00
	7	9.92	8	0.00								
03:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.63	6	0.00
	7	9.93	8	0.00								
03:29:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.62	6	0.00
	7	9.94	8	0.00								
03:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.61	6	0.00
	7	9.94	8	0.00								
03:49:41	1	0.00	2	0.00	3	10.37	4	9.97	5	6.62	6	0.00
	7	9.94	8	0.00								
03:59:41	1	0.00	2	0.00	3	10.37	4	9.98	5	6.62	6	0.00
	7	9.94	8	0.00								
04:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.61	6	0.00
	7	9.96	8	0.00								
04:39:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.97	8	0.00								
04:59:41	1	0.00	2	0.00	3	10.34	4	9.96	5	6.59	6	0.00
	7	9.97	8	0.00								
05:19:41	1	0.00	2	0.00	3	10.35	4	9.96	5	6.59	6	0.00
	7	9.96	8	0.00								
05:39:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.59	6	0.00
	7	9.97	8	0.00								
05:59:41	1	0.00	2	0.00	3	10.35	4	9.97	5	6.59	6	0.00
	7	0.00	8	0.00								
06:19:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.59	6	0.00
	7	9.98	8	0.00								
06:39:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.35	6	0.00

SWEPI GAS PUMPS PUMPING TEST

	7	9.99	8	0.00								
06:59:41	1	0.00	2	0.00	3	10.36	4	9.98	5	6.36	6	0.00
	7	9.99	8	0.00								
07:19:41	1	0.00	2	0.00	3	10.36	4	9.99	5	6.38	6	0.00
	7	9.99	8	0.00								
07:39:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
07:59:41	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00

STATION ID = 05

07:59 HRS 90/01/10 #05

	7	9.98	8	0.00								
08:00:30	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:31	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:33	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:34	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:35	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:36	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:38	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:39	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:40	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:42	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:43	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:44	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:46	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:47	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:48	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:50	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:51	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:52	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:54	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:55	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								
08:00:56	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00
	7	9.98	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

08:00:58	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00	
	7	9.98	8	0.00									
08:00:59	1	0.00	2	0.00	3	10.35	4	9.98	5	6.38	6	0.00	
	7	9.98	8	0.00									
08:01:00	1	0.00	2	0.00	3	10.35	4	9.98	5	6.57	6	0.00	
	7	9.98	8	0.00									
08:01:02	1	0.00	2	0.00	3	10.35	4	9.98	5	6.86	6	0.00	
	7	9.98	8	0.00									
08:01:03	1	0.00	2	0.00	3	10.35	4	9.98	5	7.11	6	0.00	
	7	9.98	8	0.00									
08:01:04	1	0.00	2	0.00	3	10.35	4	9.98	5	7.34	6	0.00	
	7	9.98	8	0.00									
08:01:06	1	0.00	2	0.00	3	10.35	4	9.98	5	7.53	6	0.00	
	7	9.98	8	0.00									
08:01:07	1	0.00	2	0.00	3	10.35	4	9.98	5	7.70	6	0.00	
	7	9.98	8	0.00									
08:01:08	1	0.00	2	0.00	3	10.35	4	9.98	5	7.85	6	0.00	
	7	9.98	8	0.00									
08:01:10	1	0.00	2	0.00	3	10.35	4	9.98	5	7.96	6	0.00	
	7	9.98	8	0.00									
08:01:11	1	0.00	2	0.00	3	10.35	4	9.98	5	8.04	6	0.00	
	7	9.98	8	0.00									
08:01:12	1	0.00	2	0.00	3	10.35	4	9.98	5	8.09	6	0.00	
	7	9.98	8	0.00									
08:01:14	1	0.00	2	0.00	3	10.35	4	9.98	5	8.12	6	0.00	
	7	9.98	8	0.00									
08:01:15	1	0.00	2	0.00	3	10.35	4	9.98	5	8.15	6	0.00	
	7	9.98	8	0.00									
08:01:16	1	0.00	2	0.00	3	10.35	4	9.98	5	8.17	6	0.00	
	7	9.98	8	0.00									
08:01:18	1	0.00	2	0.00	3	10.35	4	9.98	5	8.18	6	0.00	
	7	9.98	8	0.00									
08:01:19	1	0.00	2	0.00	3	10.35	4	9.98	5	8.19	6	0.00	
	7	9.99	8	0.00									
08:01:20	1	0.00	2	0.00	3	10.35	4	9.98	5	8.21	6	0.00	
	7	9.98	8	0.00									
08:01:22	1	0.00	2	0.00	3	10.35	4	9.98	5	8.22	6	0.00	
	7	9.99	8	0.00									
08:01:23	1	0.00	2	0.00	3	10.35	4	9.98	8	5.28	6	0.00	
	7	9.99	8	0.00									
08:01:24	1	0.00	2	0.00	3	10.35	4	9.98	5	8.25	6	0.00	
	7	9.98	8	0.00									
08:01:25	1	0.00	2	0.00	3	10.35	4	9.98	5	8.26	6	0.00	
	7	9.98	8	0.00									
08:01:27	1	0.00	2	0.00	3	10.35	4	9.98	5	8.27	6	0.00	
	7	9.98	8	0.00									
08:01:28	1	0.00	2	0.00	3	10.35	4	9.98	5	8.28	6	0.00	
	7	9.99	8	0.00									
08:01:29	1	0.00	2	0.00	3	10.35	4	9.98	5	8.29	6	0.00	
	7	9.98	8	0.00									
08:01:31	1	0.00	2	0.00	3	10.35	4	9.98	5	8.30	6	0.00	
	7	9.99	8	0.00									
08:01:32	1	0.00	2	0.00	3	10.35	4	9.98	5	8.31	6	0.00	
	7	9.99	8	0.00									

SWEPI GAS PUMPS PUMPING TEST

08:01:33	1	0.00	2	0.00	3	10.35	4	9.98	5	8.32	6	0.00
	7	9.99	8	0.00								
08:01:35	1	0.00	2	0.00	3	10.35	4	9.98	5	8.33	6	0.00
	7	9.99	8	0.00								
08:01:36	1	0.00	2	0.00	3	10.35	4	9.98	5	8.34	6	0.00
	7	9.99	8	0.00								
08:01:37	1	0.00	2	0.00	3	10.35	4	9.98	5	8.34	6	0.00
	7	9.99	8	0.00								
08:01:39	1	0.00	2	0.00	3	10.36	4	9.98	5	8.35	6	0.00
	7	9.99	8	0.00								
08:01:40	1	0.00	2	0.00	3	10.36	4	9.98	5	8.36	6	0.00
	7	9.99	8	0.00								
08:01:41	1	0.00	2	0.00	3	10.36	4	9.98	5	8.36	6	0.00
	7	9.99	8	0.00								
08:01:43	1	0.00	2	0.00	3	10.36	4	9.98	5	8.37	6	0.00
	7	9.99	8	0.00								
08:01:44	1	0.00	2	0.00	3	10.36	4	9.98	5	8.38	6	0.00
	7	9.99	8	0.00								
08:01:45	1	0.00	2	0.00	3	10.36	4	9.98	5	8.38	6	0.00
	7	9.99	8	0.00								
08:01:47	1	0.00	2	0.00	3	10.36	4	9.98	5	8.39	6	0.00
	7	9.99	8	0.00								
08:01:48	1	0.00	2	0.00	3	10.36	4	9.98	5	8.39	6	0.00
	7	9.99	8	0.00								
08:01:49	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00								
08:01:51	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00								
08:01:52	1	0.00	2	0.00	3	10.36	4	9.98	5	8.40	6	0.00
	7	9.99	8	0.00								
08:01:53	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00								
08:01:55	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00								
08:01:56	1	0.00	2	0.00	3	10.36	4	9.98	5	8.41	6	0.00
	7	9.99	8	0.00								
08:01:57	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00								
08:01:59	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00								
08:02:00	1	0.00	2	0.00	3	10.36	4	9.98	5	8.42	6	0.00
	7	9.99	8	0.00								
08:02:01	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00								
08:02:03	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00								
08:02:04	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00								
08:02:05	1	0.00	2	0.00	3	10.36	4	9.98	5	8.43	6	0.00
	7	9.99	8	0.00								
08:02:07	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00
	7	9.99	8	0.00								
08:02:08	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00
	7	9.99	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

08:02:09	1	0.00	2	0.00	3	10.36	4	9.98	5	8.44	6	0.00
	7	10.02	8	0.00								
08:02:11	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:12	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:13	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:15	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	10.01	8	0.00								
08:02:16	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:02:17	1	0.00	2	0.00	3	10.36	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:02:19	1	0.00	2	0.00	3	10.37	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:02:20	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:21	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:23	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:24	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:25	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:27	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:28	1	0.00	2	0.00	3	10.37	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:02:29	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:31	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:32	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:33	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:35	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:36	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
08:02:37	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
08:02:39	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:40	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:02:41	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.07	8	0.00								
08:02:43	1	0.00	2	0.00	3	10.37	4	9.98	5	8.47	6	0.00
	7	10.04	8	0.00								
08:02:44	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.05	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

08:02:45	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.05	8	0.00								
08:02:47	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.07	8	0.00								
08:02:48	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.07	8	0.00								
08:02:49	1	0.00	2	0.00	3	10.37	4	9.97	5	8.47	6	0.00
	7	10.08	8	0.00								
08:02:51	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.08	8	0.00								
08:02:52	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	10.46	8	0.00								
08:02:53	1	0.00	2	0.00	3	10.36	4	9.96	5	8.46	6	0.00
	7	10.08	8	0.00								
08:02:55	1	0.00	2	0.00	3	10.37	4	9.97	5	8.48	6	0.00
	7	10.08	8	0.00								
08:02:56	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:02:57	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:02:59	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:00	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:01	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:03	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:04	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:05	1	0.00	2	0.00	3	10.37	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:07	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:08	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:09	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:14	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:19	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:24	1	0.00	2	0.00	3	10.38	4	9.98	5	8.49	6	0.00
	7	10.08	8	0.00								
08:03:29	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:34	1	0.00	2	0.00	3	10.38	4	9.98	5	8.48	6	0.00
	7	10.09	8	0.00								
08:03:39	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	10.11	8	0.00								
08:03:44	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	10.11	8	0.00								
08:03:49	1	0.00	2	0.00	3	10.38	4	9.97	5	8.48	6	0.00
	7	9.99	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

08:03:54	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:03:59	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:04	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:09	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:19	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:29	1	0.00	2	0.00	3	10.39	4	9.98	5	8.48	6	0.00
	7	9.99	8	0.00								
08:04:39	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:04:49	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:04:59	1	0.00	2	0.00	3	10.39	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:05:09	1	0.00	2	0.00	3	10.40	4	9.98	5	8.47	6	0.00
	7	9.99	8	0.00								
08:05:19	1	0.00	2	0.00	3	10.39	4	9.97	5	8.46	6	0.00
	7	9.99	8	0.00								
08:05:29	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:05:39	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:05:49	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:05:59	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:06:09	1	0.00	2	0.00	3	10.40	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:06:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:07:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.45	6	0.00
	7	9.99	8	0.00								
08:07:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:08:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:08:39	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:09:09	1	0.00	2	0.00	3	10.41	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								
08:09:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								
08:10:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	9.99	8	0.00								
08:10:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								
08:11:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.08	8	0.00								
08:11:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.46	6	0.00
	7	10.00	8	0.00								

SWEPI GAS PUMPS PUMPING TEST

08:12:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00
	7	10.00	8	0.00								
08:12:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:13:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:13:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:14:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:14:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:15:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:15:39	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:16:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:17:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:18:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.07	8	0.00								
08:19:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:20:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:21:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.09	8	0.00								
08:22:09	1	0.00	2	0.00	3	10.43	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:23:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:24:09	1	0.00	2	0.00	3	10.42	4	9.98	5	8.47	6	0.00
	7	10.00	8	0.00								
08:25:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00
	7	10.00	8	0.00								
08:26:09	1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00
	7	10.01	8	0.00								
S;S 1	0.00	2	0.00	3	10.42	4	9.97	5	8.47	6	0.00	

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

April 5, 1991

FEDERAL EXPRESS

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency
County of Orange
2009 East Edinger Avenue
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: CHARACTERIZATION REPORT
OCHCA CASE #88UT110
UNDERGROUND STORAGE TANK SITE
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

As explained in Shell Western E&P Inc.'s (SWEPI) March 4, 1991 Quarterly Report, characterization of the subject former underground tank site is complete. The original tank removal was performed in April 1989. A subsequent closure request dated August 7, 1989 with accompanying site characterization was denied by your letter of September 1, 1989 with a request for further characterization. We believe that the requested additional investigation is now complete.

Enclosed is a final characterization report in two volumes (Phase I & Phase II) prepared by Groundwater Technology (SWEPI consultant). The information contained in the report is in addition to that in the original August 1989 report prepared by Aman Environmental (former SWEPI consultant). In order to tie the two reports together, a brief summary of the information in the three volumes is also enclosed.

CBBY9109204 - 0001.0.0

We look forward to meeting with you to discuss the need for further action upon completion of your review of the enclosed reports. If you have any questions, please contact Sub Sen of our staff at (805) 326-5129.

Sincerely,

J. A. Ruhl
Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Enclosure

cc: Bill Giralamo
Groundwater Technology Inc.
20000/200 Mariner Avenue
Torrance, CA 90503-1670

SUMMARY OF CHARACTERIZATION STUDIES
OCHCA CASE #88UT110
UNDERGROUND STORAGE TANK SITE
HUNTINGTON BEACH, ORANGE COUNTY

HISTORY

Two 10,000 gallon underground tanks were removed in April 1989. Their former locations are shown in Figure 1. Samples below each end of the gasoline tank and one end of the Stoddard solvent tank (GT-EX-1, GT-EX-2, ST-EX-2) at 12 feet below grade were clean. However, sample ST-EX-1 (12 feet below grade) below the eastern end of the Stoddard solvent tank found elevated levels of hydrocarbons; ST-EX-1A at 14 feet below grade also found hydrocarbons. The hydrocarbon-containing soil was excavated down to 35 feet as shown in Figures 1 & 2. Further samples ST-EX-3, 4, 7 & 8 were taken during the excavation. The stockpiled soils were sampled (SP-GS-1) and removed. Three subsurface borings (PB-1, PB-2 & PB-3: Figures 1 & 2) down to groundwater at 35 feet vertical below grade showed no significant contamination remaining. Table 1 shows the analytical results from Aman Environmental's investigation. However, a request for closure was denied, and further investigation required.

In November 1989, SWEPI retained Groundwater Technology Inc. to further characterize the site. Phase I of the investigation included drilling and sampling soil and groundwater from 5 groundwater monitoring wells (GTW1 through GTW5) and a vapor extraction test through a soil probe and well GTV2. A Phase I report was completed in June 1990. However, due to the level of groundwater hydrocarbons found in well GTW-5, a Phase II investigation was initiated to define the limits of elevated groundwater TPH. Wells GTW-6 (upgradient) and GTW-7 (downgradient) completed this investigation, along with a pump-test on well GTW-5. A Phase II report was completed in March 1991. Figures 3 (plan) and 4 (cross-section) show the locations of all the wells, hydrocarbons and the isoTPH contours. Tables 2 and 3 show soil analytical results from Phase I and II. Tables 4 & 5 show the groundwater analytical results from Phase I & II.

CONCLUSIONS

It is deduced from the data above that:

1) A hydrocarbon plume originally extended from one end of the Stoddard solvent tank down to groundwater around Well GTW-5 as shown in Figure 4.

2) Most of the source hydrocarbon-bearing soil has been excavated. The highest remaining TPH level of 3700 ppm was found at 31 feet in well GTV-1 with next highest at 140 ppm.

3) The groundwater in well GTW-5 had 53,000 - 80,000 ppb of TPH. The upgradient well GTW-6 had low TPH levels, and the downgradient GTW-7 had non-detectable levels. Well GTW-5 also had 2,000 - 3,800 ppb of benzene, but other wells had less than 3.5 ppb. The hydrocarbon plume is now well defined and concentrated around well GTW-5, as shown in Figure 3.

4) Groundwater in the vicinity is brackish (TDS 9,700 ppm) and not used for any purpose. The site is within 0.25 mile of the shoreline.

TABLE 1

Summary of Analytical Results
Shell Western Exploration and Production, Inc.
Huntington Beach Unit
Huntington Beach, California
(AEI Project Number 88-7030)

Sample I.D.	Depth (ft)	TPH (1) (mg/kg)	Benzene (2) (mg/kg)	Toluene (2) (mg//kg)	Ethylbenzene (2) (mg/kg)	Total Xylenes (2) (mg/kg)
GT-EX-1	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
GT-EX-2	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
ST-EX-1	12	3550	0.97	11.66	6.78	59.3
ST-EX-1A	14	20700	3.44	90.6	46.2	399
ST-EX-2	12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
SP-GS-1		4070	0.83	6.17	6.24	52.2
ST-EX-3	20	5210	ND<0.01	6.04	ND<0.05	41.0
ST-EX-4		295	ND<0.01	0.92	ND<0.05	0.25
ST-EX-7	26	5820	22.5	48.9	177	56.6
ST-EX-8	32	1090	0.518	4.06	3.83	29.5
PB1-5'		ND<10				
PB1-10'		ND<10				
PB1-15'		ND<10				
PB1-20'		ND<10				
PB1-25'		10	0.3	0.7	0.3	0.9
PB1-30'		ND<10				
PB1-35'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
PB2-10'		ND<10				
PB2-20'		ND<10				
PB2-30'		ND<10				
PB2-40'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
GS2-22' *		180	ND<0.1	0.2	ND<0.1	6.6
PB3-5'		ND<10				
PB3-10'		ND<10				
PB3-15'		ND<10				
PB3-20'		ND<10				
PB3-25'		ND<10				
PB3-30'		ND<10				
PB3-35'		ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1

* Grab sample of soil cuttings from boring PB2 at approximately 22 feet.

(1) Total Petroleum Hydrocarbons, also known as total extractable petroleum hydrocarbons (TEPH); analyzed in accordance with modified EPA Method 8015.

(2) Analyzed in accordance with EPA Method 8020.

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

ND Not detected at the stated detection limit.

TABLE 2

**Summary of Laboratory Analyses of
Undisturbed Soil Samples Obtained From
The Shell Production Unit, Tank Pit Area
Shell Western Exploration and Production, Inc.
Huntington Beach, California**

**Sampled November 10 Through December 14, 1989
and May 23, 1990**

Sample No.	TPH (Gasoline)	TPH (Stoddard Solvent)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW1-5	ND	ND	ND	ND	ND	ND
GTW1-10	ND	ND	ND	ND	ND	ND
GTW1-15	ND	ND	ND	ND	ND	ND
GTW1-20	ND	ND	ND	ND	ND	ND
GTW1-25	ND	ND	ND	ND	ND	ND
GTW1-30	ND	ND	ND	ND	ND	ND
GTW2-25	ND	ND	ND	ND	ND	ND
GTW3-25	140	ND	0.41	3.8	3.0	18
GTW4-31	ND	ND	ND	ND	ND	ND
GTW5-25	70		0.24	2.1	1.8	9.1
GTW5-30	ND		0.22	0.89	0.21	1.2
GTV1-31	3,700	ND	11	240	180	970
GTV2-31	5	ND	0.34	0.19	0.38	1.8

ND = Not detected
All values are in parts per million (ppm).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppm): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05.
Exception: GTW5 TPH (gasoline) = 10

TABLE 3

**Summary of EPA Methods 8015/8020 (TPH/BTEX) Analysis
Results on Soil Samples Collected from Borings
During Well Installation in the Shell Production Unit
Gas Pump Area**

Sampled December 17, and 18, 1990

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
GTW-6-15	12/18/90	ND	ND	ND	ND	ND
GTW-6-30	12/18/90	ND	ND	ND	ND	ND
GTW-7-15	12/17/90	ND	ND	ND	ND	ND
GTW-7-30	12/17/90	ND	ND	ND	ND	ND

- All concentrations measured in parts per million (ppm)
- ND = Levels below detection limits
- TPH = Total petroleum hydrocarbons (analyzed as gasoline)
- BTEX = benzene, toluene, ethylbenzene, and total xylenes
- Detection limits: TPH 10.0 ppm; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05 ppm

TABLE 4

Summary of 602/8015 (BTEX/TPH) Analyses on Groundwater Samples Obtained During Well Development in The Shell Production Unit, Tank Excavation Shell Western Exploration and Production, Inc. Huntington Beach, California

Sampled October 17, December 19, 1989 and June 5, 1990

Sample No.	TPH (Gasoline)	TPH (Stoddard)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW-1 (11/17/89)	ND	ND	ND	ND	ND	ND
GTW-2 (11/17/89)	ND	8	5.0	ND	ND	ND
GTW-3 (11/17/89)	3,300	ND	110	330	290	1,100
GTW-4 (12/19/89)	21	--	ND	ND	ND	ND
GTW-5 (6/5/90)	80,000	--	3,800	13,000	4,700	29,000

ND = Not detected
All values are in parts per billion (ppb).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppb): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.5; toluene 0.5; ethylbenzene 0.5; xylenes 0.5.
Exception: GTW5 TPH (gasoline) = 100

PHASE II, SITE ASSESSMENT
Shell Western Exploration and Production, Inc.
Huntington Beach, California

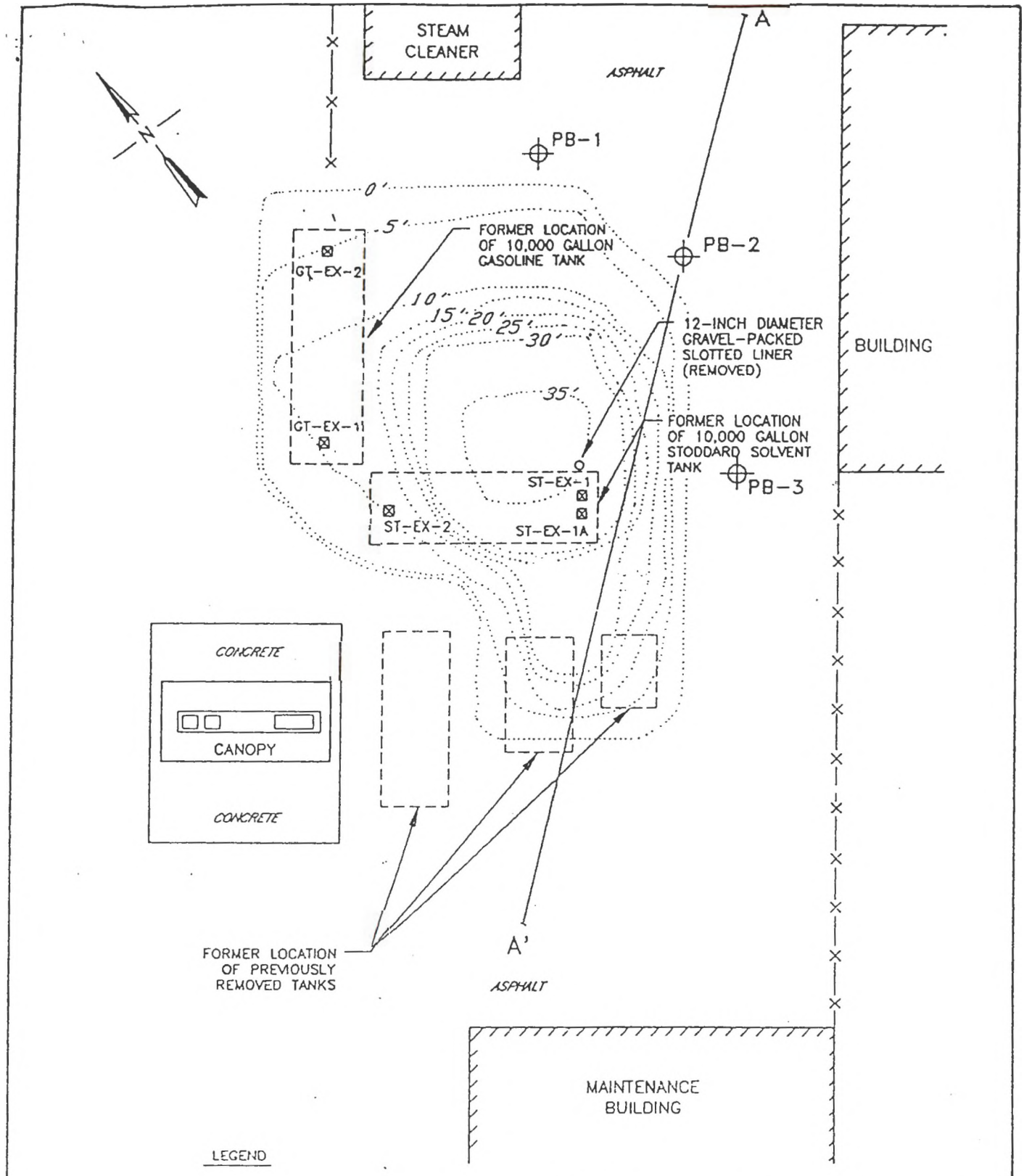
TABLE 5

Summary of Analyses Results by EPA Methods 8015/8020 (TPH/BTEX), 7421 (Total Lead), and Total Dissolved Solids (TDS) on Groundwater Samples Collected from Wells in the Shell Production Unit, Gas Pump Area

Sampled December 21, 1990, and January 9, 1991

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL LEAD*	TDS*
Trip Blank	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-1	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-2	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-3	12/21/90	110	3.5	7.8	1.0	6.9	-	-
GTW-4	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-5	12/21/90	53,000	2,000	5,500	3,300	13,000	77	9,700
GTW-6	12/21/90	300	ND	4.8	6.4	31	-	-
GTW-7	12/21/90	ND	0.5	ND	1.4	6.7	-	-

* Total lead and TDS samples collected on January 9, 1991
- Not sampled
TPH, BTEX, and total lead concentrations reported as parts per billion (ppb). TDS concentration reported as parts per million ppm.
Detection limits



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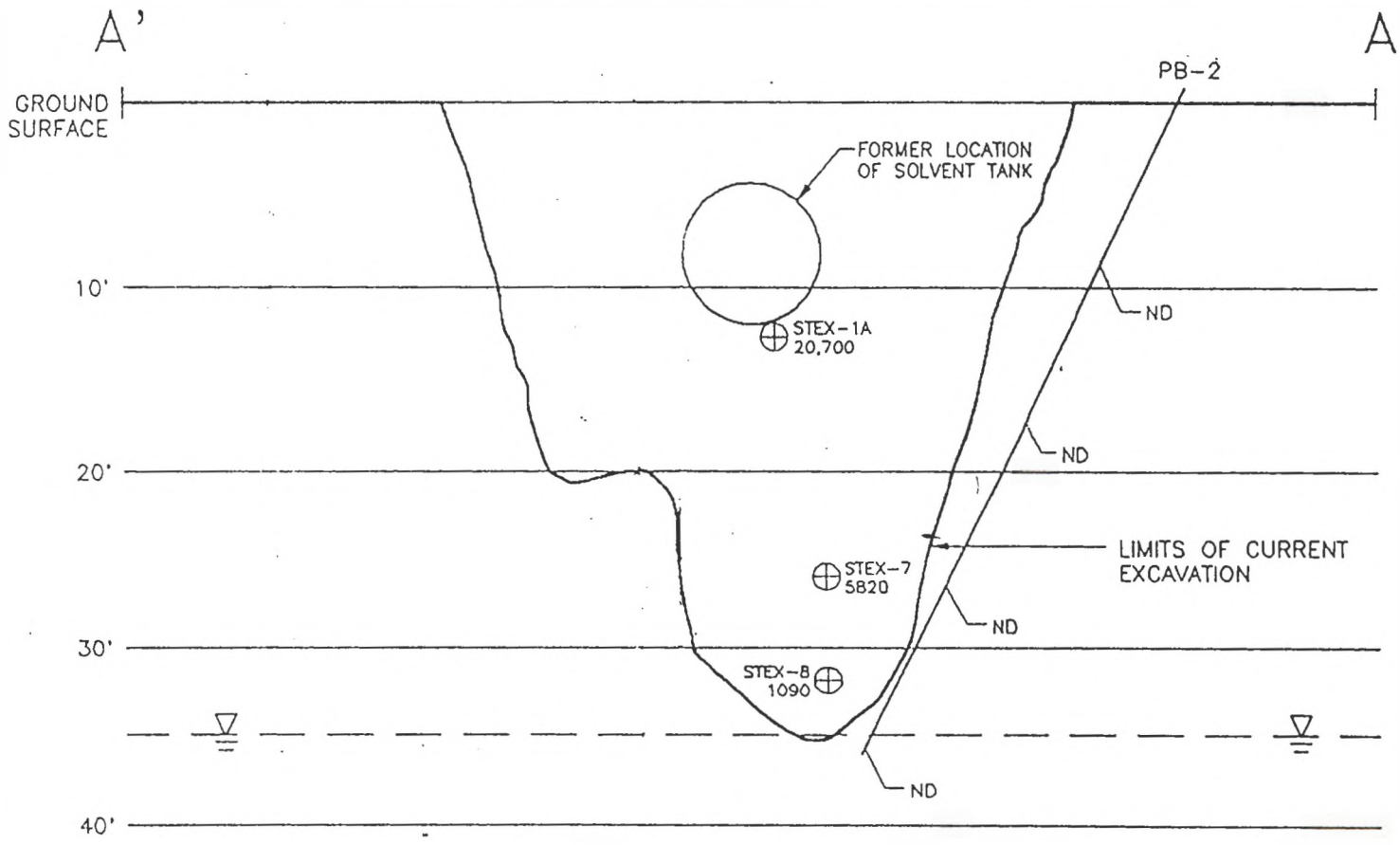
SITE PLAN & BORING LOCATIONS

SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

Not to Scale

Date: 7/89

FIGURE 1



NOTE:

PB-2 IS ANGLED BORING

⊕ = EXCAVATION GRAB SAMPLE

ND = NOT DETECTABLE

OTHER NUMBERS REPRESENT TOTAL PETROLEUM HYDROCARONS (mg/kg)

HORIZONTAL DIMENSIONS NOT TO SCALE

LOCATION OF CROSS SECTION SHOWN ON FIGURE 3

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CROSS SECTION A-A'
BORING AND SAMPLE LOCATIONS

SHELL WESTERN EXPL. & PROD., INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

FIGURE 2

Date: 4/19/89

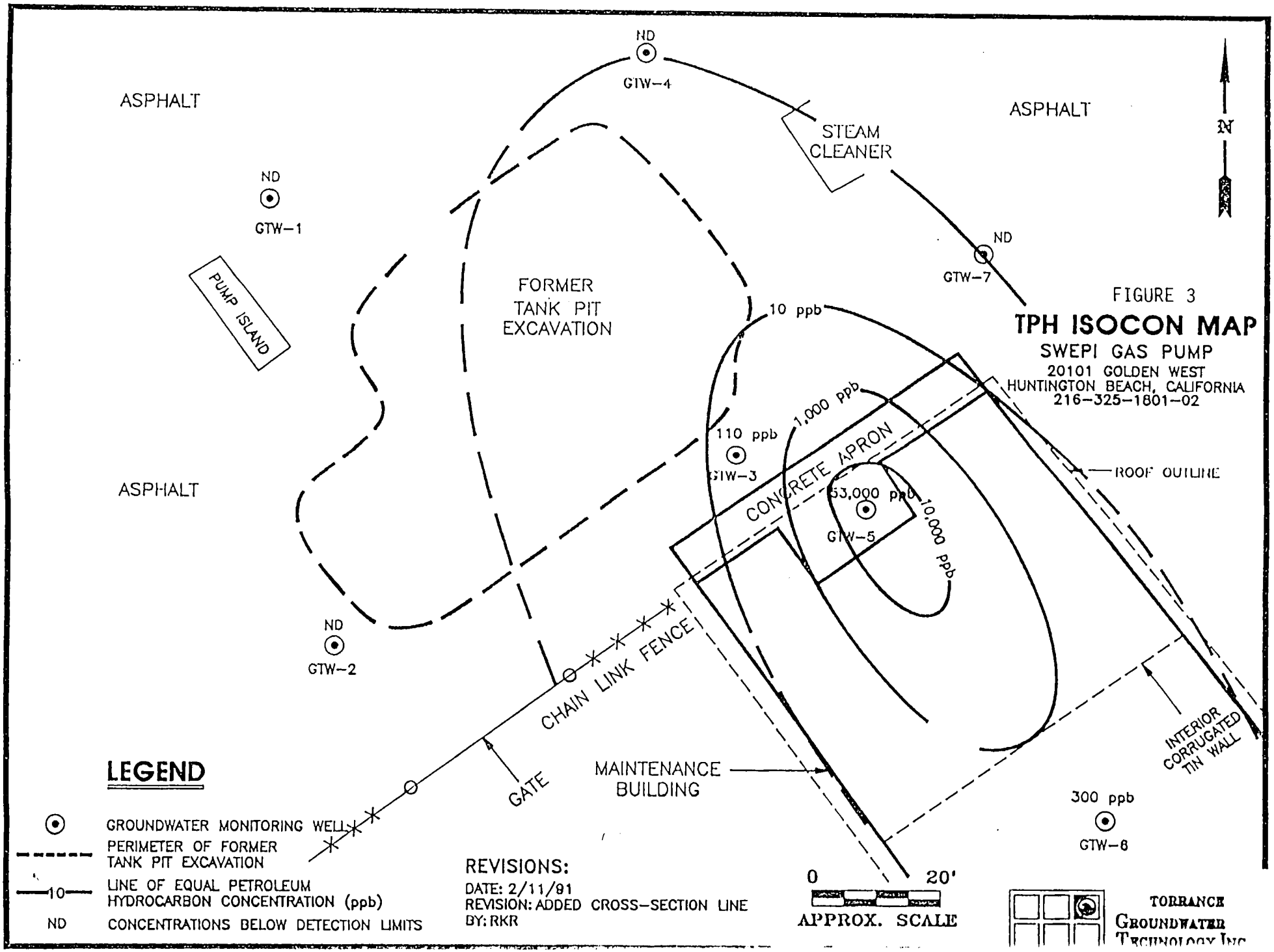


FIGURE 3

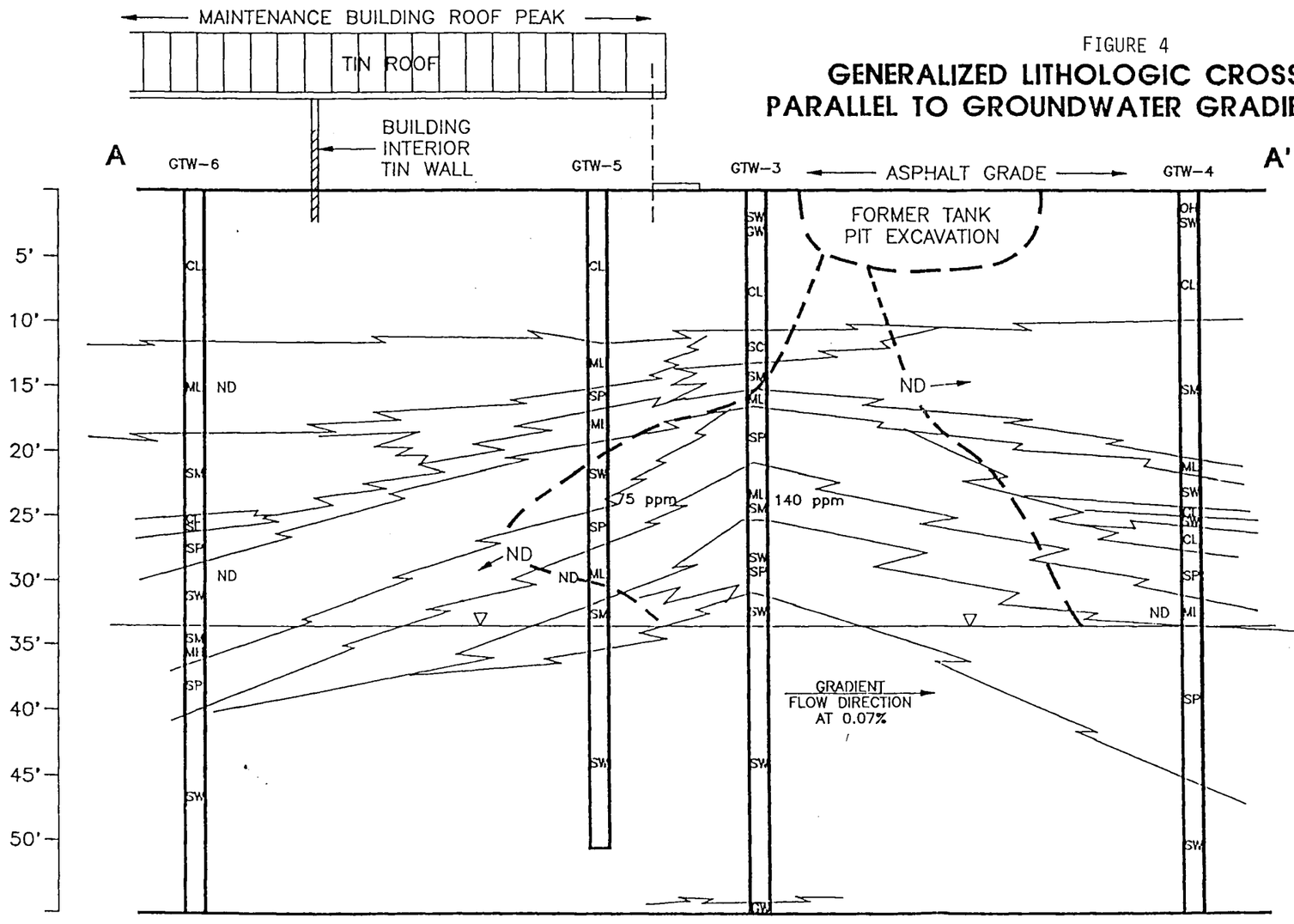
TPH ISOCON MAP

SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

bc: West Coast Production Division
S. J. Gomes, Associate Environmental Specialist, Operations,
SPT 840, (646CB, SCP-5566)
L. B. Buckley, Production Foreman, Huntington Beach Production Unit
HS&E File

FIGURE 4

GENERALIZED LITHOLOGIC CROSS-SECTION PARALLEL TO GROUNDWATER GRADIENT DIRECTION



GRADE

GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

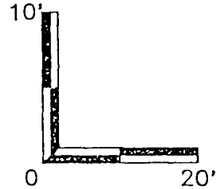
WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW: SAND/GRAVEL MIXTURE
SP: POORLY GRADED SAND
SW: WELL GRADED SAND
SM: SILTY SAND
SC: CLAYEY SAND
ML: CLAYEY/SANDY SILT
CL: SILTY CLAY

CH: VERY PLASTIC CLAY
OH: ORGANIC CLAY
* NOTE: WELL DIAMETERS EXAGGERATED
140 ppm TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
— — — TPH CONCENTRATIONS BELOW DETECTION LIMITS

REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR



APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.

GROUNDWATER TECHNOLOGY ®

Groundwater Technology, Inc.
20000/200 Mariner Avenue, Torrance, CA 90503-1670 USA
Tel: (310) 371-1394 Fax: (310) 371-4782

QUARTERLY GROUNDWATER MONITORING AND SOIL VAPOR EXTRACTION AND TREATMENT SYSTEM OPERATION REPORT THIRD QUARTER 1995 GAS PUMP AREA HUNTINGTON BEACH PRODUCTION UNIT HUNTINGTON BEACH FIELD HUNTINGTON BEACH, CALIFORNIA

GTI Project 021602695

October 31, 1995

Prepared for:
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CalResources, LLC
P. O. Box 11164
Bakersfield, CA 93389-1164

Groundwater Technology, Inc.
Submitted by:

Robert Ruscitto
Project Geologist

Groundwater Technology, Inc.
Approved by:

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Registered Geologist
No. 5497

REGISTERED GEOLOGIST
LARRY HIGINBOTHAM
No. 5497
STATE OF CALIFORNIA

1000R34.RR/#3
SWEPI Huntington Beach

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A. Groundwater Gauging and Purging Data
B. Groundwater Laboratory Results
C. Vapor Stream Analytical Results

1.0 INTRODUCTION

The following report summarizes field work and laboratory analyses performed during the third quarter (July 1 through September 30) of 1995, at CalResources LLC, (formerly Shell Western Exploration and Production, Inc., [SWEPI]), Huntington Beach Production Unit, 20101 Golden West Avenue, Huntington Beach, California (figure 1). The following tasks were performed during this reporting period:

- quarterly gauging and sampling of all on-site groundwater monitoring wells
- laboratory analysis of groundwater samples
- measurements of dissolved oxygen levels
- installation of a Stealth thermal oxidizer
- remedial system operation and maintenance

The soil vapor extraction system (Adwest Gravel Bed) began operation at the site May 4, 1993. The system was shut down December 2, 1993, and removed from the site for repairs. The Adwest unit was then used at the CalResources gas plant site. The system was reinstalled and began operation on June 2, 1994. The Adwest Gravel Bed was operated until January 18, 1995, when it was shut down for repairs and removed from the site.

A Stealth Thermal Oxidizer was installed to replace the gravel bed and began operation on July 10, 1995. The Thermal Oxidizer was previously used to remediate CalResources' former Huntington Beach Gas Plant facility currently undergoing demolition. The soil vapor extraction system operated during the third quarter of 1995.

2.0 GAUGING, SAMPLING, GRADIENT DETERMINATION, AND DISSOLVED OXYGEN LEVELS

On September 18, 1995, Groundwater Technology, Inc. personnel gauged monitoring wells associated with the gas pump area assessment (GTW-1 through GTW-7, figure 2). An iNTERFACE PROBE™ was used to measure depth to water. Liquid-phase hydrocarbons were not detected in any of the wells. Table 1 summarizes the well gauging data. A copy of the gauging data is included as appendix A.

Groundwater gradient beneath the site, calculated using the third quarter data (collected September 18), was 0.007 feet per foot (ft/ft) toward the west. The groundwater gradient is consistent with previous sampling events. Figure 3 shows groundwater equipotential lines and calculated gradient, including flow direction.

On September 18, 1995, Groundwater Technology personnel purged and sampled seven groundwater monitoring wells (GTW-1 through GTW-7) in the gas pump area. The wells were purged using an industrial vacuum truck and dedicated polyvinyl chloride (PVC) stingers. Approximately 37 to 45 gallons of groundwater was purged from each well before sampling. Purging was performed until PH, conductivity, and temperature parameters stabilized. Appendix A contains the well purging records. All purged groundwater was disposed on-site through the CalResources on-site water treatment system.

Samples were collected using disposable Teflon™ bailers. The samples were immediately placed on ice in a cooler and transported to state-certified BC Analytical Laboratories, Glendale, California, following proper chain-of-custody procedures. All samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) following proper EPA Method 8015 (modified); and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) following EPA Method 8020.

Dissolved oxygen levels were measured in each monitoring well to evaluate potential biological degradation of the dissolved hydrocarbon plume. After each well was purged, measurements were obtained using a model YSI-50B dissolved oxygen meter. The attached probe was calibrated in air to 20.9% oxygen prior to sampling. Field dissolved oxygen data is included in appendix A.

3.0 VAPOR TREATMENT SYSTEM OPERATION

During the reporting period, the Stealth system operated from July 10 through September 30, 1995, with approximately 8 days of downtime due to mechanical problems (August 12 to August 17, and September 11 to September 14). Weekly system checks and monitoring were performed during the operating period.

Tedlar bag samples were collected from the influent airstream on July 10 and September 14, 1995. Air samples were sent to Quanterra Environmental Services, City of Industry, California, following proper chain-of-custody procedures. The samples were analyzed for methane, total non-methane hydrocarbons (TNMHC) as hexane, carbon monoxide, and carbon dioxide following SCAQMD Method 25.1.

4.0 GROUNDWATER ANALYTICAL RESULTS

TPH-g was not detected at or above the reporting limit (100 micrograms per liter [μg/L]) in five of the wells sampled. Wells GTW-5 and GTW-6 contained TPH-g concentrations of 120 and 130 μg/L, respectively. Benzene was not detected at or above the reporting limit (0.3 μg/L) in six wells. Well GTW-5 contained benzene at a concentration of 0.35 μg/L.

Table 2 summarizes the EPA Method 8015 (modified) and EPA Method 8020 analytical results from groundwater samples collected September 19, 1995. A copy of the complete laboratory report is included as appendix B.

Laboratory analyses for TPH-g and benzene from December 1990 through September 1995 are provided in tables 3 and 4. Comparative data indicate limited lateral migration of dissolved-phase hydrocarbons from the suspected source area (i.e., around well GTW-5). TPH-g and benzene dissolved concentrations have decreased more than 99 percent since December 1990.

4.1 Dissolved Oxygen Measurement Results

Dissolved oxygen levels, measured September 18, 1995, ranged from 0.47 milligrams per liter (mg/L) to 0.95 mg/L in GTW-2 and GTW-6, respectively. The low dissolved oxygen concentrations could indicate limited biodegradation is occurring in the subsurface. The biological activity has been sufficient to control the migration of dissolved-phase hydrocarbons in a limited area around GTW-5. The hydrocarbon plume has remained confined to the same area since first quarter 1994 sampling when TPH-g was last detected in downgradient well GTW-3 (50 μg/L). Dissolved oxygen data is provided in table 5.

4.2 Vapor Stream Analytical Results

Table 6 summarizes vapor stream analytical results from the samples collected on July 10 and September 14, 1995. The influent sample collected July 10 contained 750 parts per million by volume (ppm[v]) TNMHC as hexane. The influent sample collected September 14 contained no TNMHC above the method detection limits (15 ppm). These values were reported in the laboratory as hexane, which is equivalent to TNMHC as gasoline. Completed laboratory results for vapor stream samples are included as appendix C.

5.0 HYDROCARBON REMOVAL

The quantity of hydrocarbons destroyed was determined using the extraction run time and the flow entering the thermal oxidizer treatment unit. The equation used in the analysis is shown below:

$$X = CQ\ (0.0000126)$$

where X = TPH removed in pounds per hour
C = Influent concentration in ppm(v)
Q = Flow rate in standard cubic ft per minute (scfm), and
0.0000126 is the unit conversion factor.

Influent concentrations were calculated using field data, and interpolated for days when the system was not monitored. Influent methane was not considered for calculation of hydrocarbon destruction. Calculations also assume 7.5% purge air, which reduces the total flow.

The combined flow rate, based on operating data recorded from the thermal oxidizer system, ranged from 189 to 370 scfm. The average TPH removal rate over the operating period was 1.69 pounds per hour. Total TPH mass removed during the period is estimated at 3,001 pounds.

Figure 4 shows cumulative TPH mass removed during gravel bed operation from May 1993 to January 1994, and during thermal oxidizer operation from July to September 1995. Total TPH mass removed during remediation at the site is estimated at 22,328.

6.0 SUMMARY

The following summary is based on data collected during the third quarter of 1995 at the CalResources Huntington Beach Production Unit:

- Groundwater gradient, calculated using the third quarter 1995 gauging data, was about 0.007 ft/ft toward the west.
- TPH-g was not detected at or above the reporting limit (10 μg/L) in groundwater samples collected September, 1995, in five wells. Wells GTW-5 and GTW-6 contained TPH-g concentrations of 120 and 130 μg/L, respectively. Benzene was not detected at or above the reporting limit (0.3 μg/L) in six wells, and at a concentration of 0.35 μg/L in well GTW-5. Comparative historical data suggest limited lateral migration of dissolved-phase hydrocarbons from the source area (i.e., around well GTW-5). TPH-g and benzene dissolved concentrations have decreased more than 99 percent since December 1990.
- After purging, dissolved oxygen was recorded from each well on September 18, 1995. Dissolved oxygen ranged from 0.47 to 0.95 mg/L, in GTW-2 and GTW-6, respectively. Dissolved oxygen concentrations could indicate biological degradation of residual hydrocarbons (organic material) around GTW-5. The hydrocarbon plume has remained confined to the same area since first quarter 1994 sampling.
- A Stealth thermal oxidizer was installed at the site on July 10, 1995; the unit operated for 74 days during the quarter. Approximately 3,001 pounds of hydrocarbons were removed. Total TPH removed from all remediation activities is estimated at 22,328 pounds.

At this time, Groundwater Technology recommends that CalResources apply for site closure from the lead agency, Orange County Health Care Agency (OCHCA). This conclusion is based upon data from third quarter 1995 and previous historical data. The data indicate a decrease in dissolved hydrocarbon concentrations (see tables 3 and 4) and vapor influent concentrations (table 5). It appears that limited hydrocarbon mass remains at the site. Also, lack of dissolved hydrocarbon migration may indicate that the plume is in a state of equilibrium with biological degradation. The closure request is based on the following:

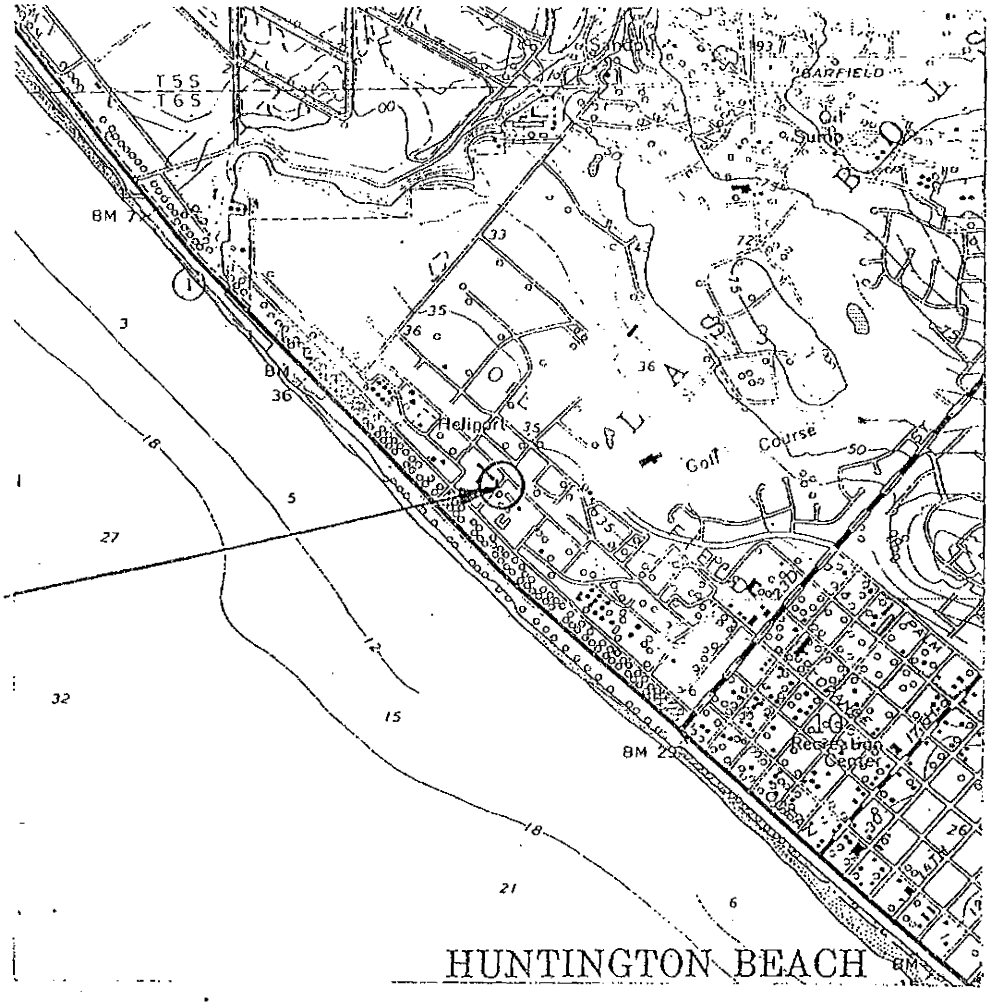
- low TPH-g and benzene concentrations in groundwater
- non-beneficial use of groundwater beneath the site
- limited migration of dissolved hydrocarbons from 1990 through 1995
- low influent soil vapor hydrocarbon concentrations are resulting in asymptotic recovery
- reduction of groundwater concentrations (53,000 μg/L TPH-g, to >200 μg/L and 2,000 μg/L to 0.35 μg/L for benzene in well GTW-5)

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California

N



SITE LOCATION

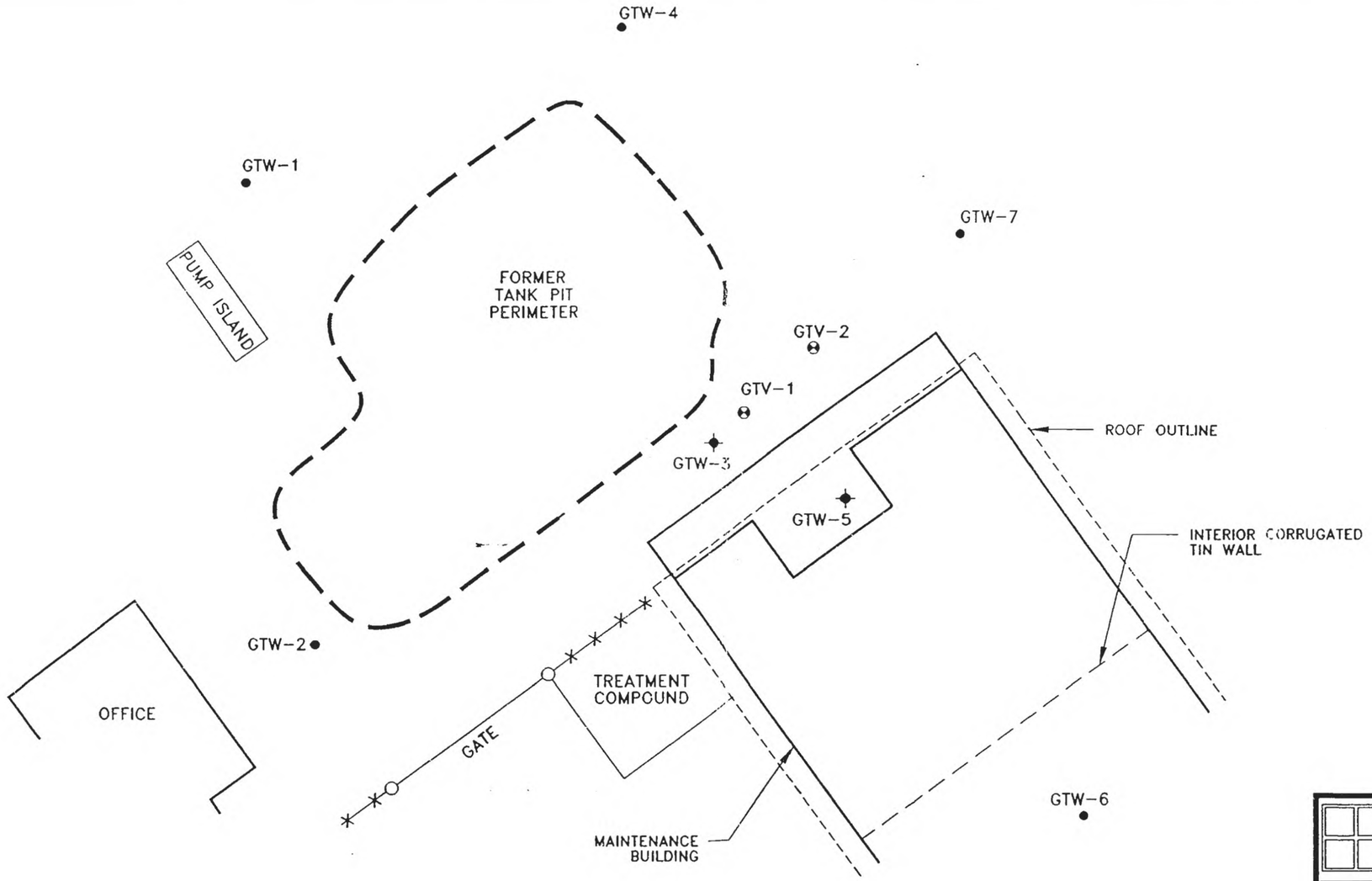
Source: U.S.G.S. Seal Beach, Calif. 1965
Photorevised 1981

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE
GROUNDWATER
TECHNOLOGY, INC.



N

LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL USED AS VAPOR EXTRACTION WELL
- VAPOR EXTRACTION WELL
- FORMER TANK PIT PERIMETER

GROUNDWATER TECHNOLOGY

0 FEET 20
SCALE

SITE MAP

CLIENT:
S.W.E.P.I.
GAS PUMP

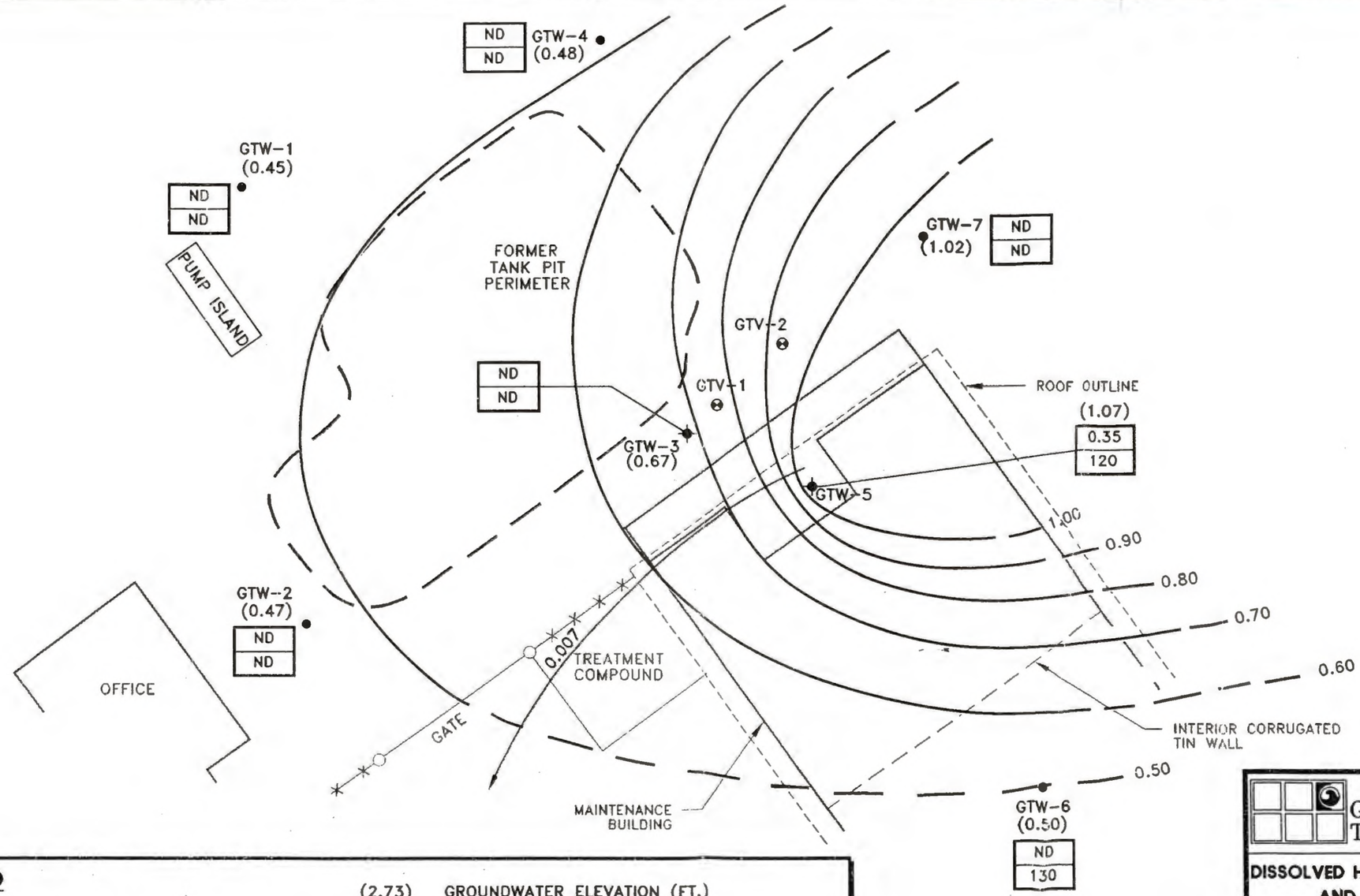
LOCATION:
20101 GOLDENWEST
HUNTINGTON BEACH, CALIFORNIA

FILE:	PROJECT NO.:
2695-STE (1:20)	02160-2695

REV.:

DES.:	DET.:	DATE:	FIGURE:
RR	EFK	10/9/94	2

PM:	PE/RG:



LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL USED AS VAPOR EXTRACTION WELL
- VAPOR EXTRACTION WELL
- FORMER TANK PIT PERIMETER
- 0.60 — GROUNDWATER EQUIPOTENTIAL LINE, INTERVAL = 0.01 FT. (IN FEET ABOVE MEAN SEA LEVEL)
- 0.007 FT/FT — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

(2.73) GROUNDWATER ELEVATION (FT.)

B	= BENZENE
TPH	= TOTAL PETROLEUM HYDROCARBONS IN WATER

ANALYZED USING EPA METHODS 8015/8020. REPORTED IN MICROGRAMS PER LITER (ug/l).

ND = NOT DETECTED ABOVE METHOD DETECTION LIMITS

GROUNDWATER TECHNOLOGY

0 FEET 20 SCALE

DISSOLVED HYDROCARBON CONCENTRATIONS AND GROUNDWATER GRADIENT SEPTEMBER 18, 1995

CLIENT: CAL-RESOURCES GAS PUMP

LOCATION: 20101 GOLDENWEST HUNTINGTON BEACH, CALIFORNIA

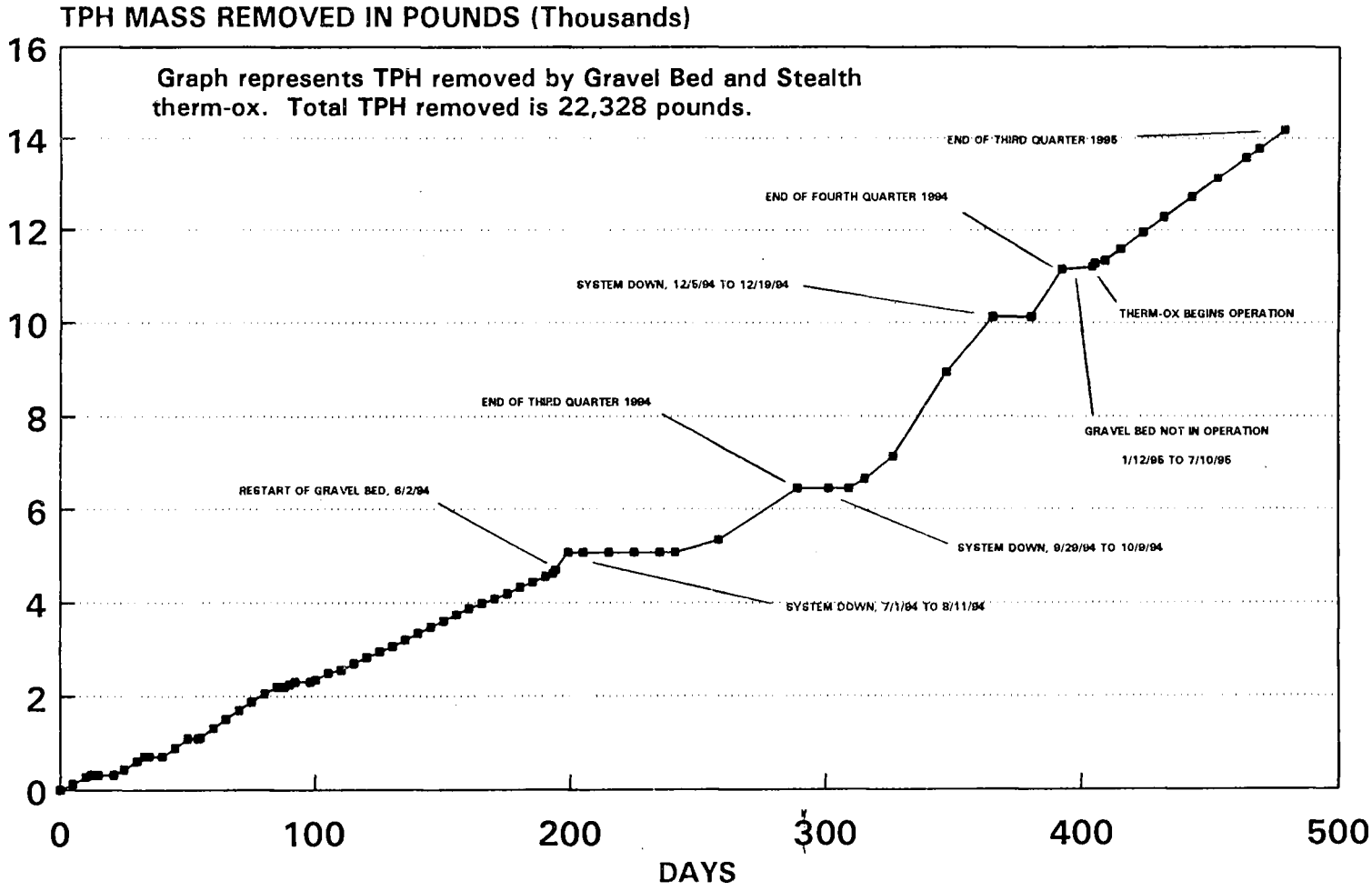
FILE: 2695SDHC (1:20) | PROJECT NO.: 02160-2695

REV.:

DES.:	DET.:	DATE:	FIGURE:
RR	SP	10-26-95	3

PM: | PE/RG:

GRAVEL BED AND THERMAL OXIDIZER
TPH REMOVED



FILE:CALRTPH.O95/3RD Q. 95

May to November 1993, and June 2, 1994
To Jan. 12, 1995, and 3rd Q. 1995

FIGURE 4

TABLE 1
Well Gauging Data
Third Quarter, September 18, 1995

(All values reported in feet)

CalResources, LLC
Gas Pump Area, Huntington Beach Production Unit
Huntington Beach, California

Well No.	SWE	DTW	DTP	PT	GWE
GTW-1	34.90	34.45	–	0	0.45
GTW-2	34.87	34.40	–	0	0.47
GTW-3	34.59	33.92	–	0	0.67
GTW-4	34.38	33.90	–	0	0.48
GTW-5	34.96	33.89	–	0	1.07
GTW-6	34.70	34.20	–	0	0.50
GTW-7	34.78	33.76	–	0	1.02

Notes: "SWE" indicates surveyed well elevation, relative to mean sea level (MSL). "DTW" indicates depth to water, measured from top of casing (feet). "DTP" indicates depth to product, measured from top of casing (feet). "PT" indicates product thickness. "GWE" indicates groundwater elevation relative to MSL. "– " indicates no liquid-phase hydrocarbons detected.

TABLE 2
Groundwater Analytical Results
September 19, 1995

(All values reported in micrograms per liter)

CalResources, LLC
Gas Pump Area, Huntington Beach Production Unit
Huntington Beach, California

Well No.	EPA Method 8015	EPA Method 8020			
	TPH (as Gasoline)	Benzene	Toluene	Ethyl-benzene	Total Xylenes
GTW-1	ND	ND	ND	ND	ND
GTW-2	ND	ND	ND	ND	ND
GTW-3	ND	ND	ND	ND	ND
GTW-4	ND	ND	ND	ND	ND
GTW-5	120	0.35	ND	ND	ND
GTW-6	130	ND	ND	ND	ND
GTW-7	ND	ND	ND	ND	ND
MW-00	ND	ND	ND	ND	ND
MRL	100	0.3	0.3	0.3	0.6

Note: "ND" indicates not detected. "MRL" indicates method reporting limits: TPH as gasoline, 100 µg/L; benzene, 0.3 µg/L; toluene, 0.3 µg/L; ethylbenzene 0.3 µg/L; and total xylenes, 0.6 µg/L

TABLE 3
Historical Comparative Laboratory Results
Groundwater Samples Analyzed for TPH

(All values reported in micrograms per liter)

CalResources, LLC
Gas Pump Area, Huntington Beach Production Unit
Huntington Beach, California

Date Sampled	Well Number						
	GTW-1	GTW-2	GTW-3	GTW-4	GTW-5	GTW-6	GTW-7
12/27/90	ND	ND	110	ND	53,000	300	ND
5/30/91	ND	ND	ND	ND	29,000	ND	ND
8/22/91	ND	ND	ND	ND	38,000	ND	ND
11/15/91	ND	ND	ND	ND	36,000	ND	ND
12/19/91	–	–	–	–	5,400	–	–
2/20/91	ND	ND	430	ND	42,000	–	ND
3/11/92	–	–	–	–	33,000	–	–
4/16/92	–	–	–	–	22,000	–	–
5/14/92	ND	ND	ND	ND	24,000	ND	ND
6/8/92	–	–	–	–	13,000	–	–
7/15/92	–	–	–	–	25,000	–	–
8/11/92	ND	ND	ND	ND	8,400	ND	ND
9/9/92	–	–	–	–	8,600	–	–
10/8/92	–	–	–	–	16,000	–	–
11/13/92	ND	ND	130	ND	21,000	ND	ND
12/1/92	–	–	–	–	12,000	–	–
2/9/93	ND	ND	920	ND	4,100	ND	ND
5/5/93	ND	ND	350	ND	18,000	ND	ND
8/30/93	ND	ND	300	100	4,000	ND	ND
11/8/93	ND	ND	1,000	ND	7,800	ND	ND
3/8/94	ND	ND	50	ND	4,800	ND	ND
6/7/94	ND	ND	ND	ND	14,000	ND	ND
9/7/94	ND	ND	ND	ND	3,300	ND	ND
12/8/94	ND	ND	ND	ND	3,100	ND	ND
3/1/95	ND	ND	ND	ND	640	ND	ND
5/31/95	ND	ND	ND	ND	490	ND	ND
9/19/95	ND	ND	ND	ND	120	130	ND

Notes: "—" indicates not analyzed. "ND" indicates not detected.

Reporting Limits: TPH as gasoline, 50 µg/L (except for 12/8/94, 10 µg/L and 9/19/95, 100 µg/L).

TABLE 4
Historical Comparative Laboratory Results
Groundwater Samples Analyzed for Benzene

(All values reported in micrograms per liter)

CalResources, LLC
Gas Pump Area, Huntington Beach Production Unit
Huntington Beach, California

Date Sampled	Well Number						
	GTW-1	GTW-2	GTW-3	GTW-4	GTW-5	GTW-6	GTW-7
12/27/90	ND	ND	3.5	ND	2,000	ND	0.5
5/30/91	ND	1.7	1.7	ND	1,900	ND	1.4
8/22/91	ND	ND	1.1	ND	1,500	ND	0.6
11/15/91	ND	ND	0.4	ND	1,300	ND	0.6
12/19/91	–	–	–	–	320	–	–
2/20/92	ND	ND	7.5	ND	760	–	ND
3/11/92	–	–	–	–	1100	–	–
4/16/92	–	–	–	–	780	–	–
5/14/92	ND	ND	ND	ND	920	ND	ND
6/8/92	–	–	–	–	510	–	–
7/15/92	–	–	–	–	640	–	–
8/11/92	ND	ND	ND	ND	330	ND	ND
9/9/92	–	–	–	–	430	–	–
10/8/92	–	–	–	–	700	–	–
11/13/92	ND	ND	4.1	ND	560	ND	ND
12/1/92	–	–	–	–	480	–	–
2/9/93	ND	ND	0.8	ND	150	ND	ND
5/5/93	ND	ND	2.4	ND	170	ND	ND
8/30/93	ND	ND	8.3	0.6	340	ND	ND
11/8/93	ND	ND	24	ND	240	ND	ND
3/8/94	ND	ND	0.9	ND	150	ND	ND
6/7/94	ND	ND	ND	ND	420	ND	ND
9/7/94	ND	ND	ND	ND	73	ND	ND
12/8/94	ND	ND	ND	ND	62	ND	ND
3/1/95	ND	ND	ND	ND	73	ND	ND
5/31/95	ND	ND	ND	ND	44	ND	ND
9/19/95	ND	ND	ND	ND	0.35	ND	ND

Notes: "—" indicates not analyzed. "ND" indicates not detected.

Reporting Limits: benzene, 0.5 µg/L (except for 12/18/94 and 9/19/95, 0.3 µg/L).

TABLE 5
Summary of Dissolved Oxygen Levels
Groundwater Monitoring Wells
Huntington Beach Facility, Gas Pump Area
September 19, 1995

CalResources, LLC
Huntington Beach, California

Well No.	D.O. (mg/L)
GTW-1	0.62
GTW-2	0.47
GTW-3	0.60
GTW-4	0.64
GTW-5	0.70
GTW-6	0.95
GTW-7	0.75

Notes: Dissolved oxygen probe calibrated in air to 20.9% oxygen. "D.O." indicates dissolved oxygen, reported in milligrams per liter (mg/L). D.O. levels measured after a minimum purging of 3 well volumes.

TABLE 6
Summary of Vapor Stream Analytical Results
Huntington Beach Facility-Gas, Pump Area

(All values reported in parts per million by volume (ppm[v]))

CalResources LLC
Huntington Beach, California

Sample	Date	TNMHC as Hexane*	Methane	Carbon Dioxide	Carbon Monoxide
Influent	7/10/95	750	3,700	75,000	ND
Influent	9/14/95	ND	2.8	12,000	ND
Effluent	7/10/95	ND	ND	51,000	ND

Notes: "ND" indicates not detected. "NA" indicates not analyzed.
Reporting Limits:
Influent samples: Methane, 1,000 ppm(v); TNMHC, 5.0 and 15.0 ppm(v); carbon dioxide, 1,000 ppm(v); carbon monoxide, 10 ppm(v).
*TNMHC as hexane = total non-methane hydrocarbons. Analyzed using hexane. Represents total petroleum hydrocarbons as gasoline in vapor.

APPENDIX A

GROUNDWATER GAUGING AND PURGING DATA

DEPTH TO WATER/FLOATING PRODUCT SURVEY

CAL RESOURCES / SEMPI / H-B

PROJECT NO.: 021602695-051004 LOCATION: GAS PUMP AREA DATE: 9-18-95

CLIENT/STATION #: _____ FIELD TECHNICIAN: Walter Salazar DAY OF WEEK: Monday

ALL SPACES MUST BE FILLED IN

DTW Order	Well ID	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet)	Second Depth to Water (feet)	Time Sampled / Depth to Floating Product (feet)	Floating Product Thickness (feet)	Comments
GTW-6	4"	Y	Y	Y	N	N	53.60	34.20	.	6:45AM		D.O. = 0.95 mg/L
GTW-2	4"	Y					53.59	34.40	.	6:50AM		D.O. = 0.47 mg/L
GTW-1	4"	Y					53.84	34.45	.	6:55AM		D.O. = 0.62 mg/L
GTW-4	4"	Y					53.14	33.90	.	7:00AM		D.O. = 0.64 mg/L
GTW-3	4"	Y					53.19	33.92	.	7:05AM		D.O. = 0.60 mg/L
GTW-7	4"	Y					52.95	33.76		7:05AM		D.O. = 0.75 mg/L
GTW-5	4"	Y					52.78	33.89		7:10AM		D.O. = 0.70 mg/L
												B

D.O. = Dissolved Oxygen (mg/L)

PAGE ____ OF ____ REVIEWED BY _____

WELL PUMPING/PURGING RECORD
CAL RESOURCES (SWEPI / H.B)

SITE NAME/LOCATION: 021602695-051004 9-18-95 WELL #: GTW-1 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 6:55 AM

P. Method: _____ Bailing * Vacuum _____ Pumping (Pump Rate= ~9 ~~10~~ gpm)

Vacuum Truck No.: _____ Max.Vacuum used: 25 "Hg/PSI N/A Air assist.

#1. Static DTP: — #2. DTW: 34.45 PT(#2-#1): — Ft. Time: _____

#3. Well Depth: 53.84 #4. Water Column(#3-#2): 19.39 #5. ONE Well Vol.: 12.8 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: 34.47 Total Volume Purged: 45 G.

Recovery: 100 % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/°F	EC µS/cm mS/cm	pH 1-14	Turbidity & Color, # NTUs	Remarks T-EC-pH Equip.Model
10:23 AM			(X1000)			STARTED
10:28 AM		76.8	9.12	7.86	clear	
10:35 AM		75.6	9.05	7.46	clear	
10:41 AM		75.1	8.63	7.28	clear	
10:45 AM		75.0	8.63	7.29	Clear	~~SF~~
10:48 AM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3). (53.84 − 34.45)(0.66)(3) = 38.4 gal
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells. (Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery.
Sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

D.O. = 0.62 mg/L

WELL PUMPING/PURGING RECORD

CAL RESOURCES (SWEPI / H.B.)

SITE NAME/LOCATION: 021602695-051004 WELL #: GTW-2

9-18-95 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 6:50AM

P. Method: _____ Bailing * Vacuum _____ Pumping (Pump Rate= 2gpm ~~10~~ gpm)

Vacuum Truck No.: _____ Max.Vacuum used: 25 (Hg) PSI N/A Air assist.

#1. Static DTP: — #2. DTW: 34.40 PT(#2-#1): — Ft. Time: _____

#3. Well Depth: 53.59 ~~38.22~~ #4. Water Column(#3-#2): 19.19 #5. ONE Well Vol.: 12.66 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: 34.42 Total Volume Purged: _____ G.

Recovery: 100 % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/(F)	EC µS/cm mS/cm (X1000)	pH 1-14	Turbidity & Color, #8 NTUs	Remarks T-EC-pH Equip.Model
9:52AM						STARTED
10:00AM		73.4	7.58	7.98		
10:05AM		72.9	7.60	7.96		
10:10AM		74.0	8.01	7.60		
						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3).
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells.
(Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery.
(sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

(53.59 - 34.40)(0.66)(3) = 38 gal.

DATA FILE: TORRANCE
MIS DATA FILE:
FORM: SFORM193.SOP

D. O. = 0.47 mg/L

WELL PUMPING/PURGING RECORD

CH. RESOURCES / (~~SEMI~~ SWEPI / H.B)

SITE NAME/LOCATION: 02160 2695-051004 9-19-95 WELL #: GTW-3 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 9:05 AM

P. Method: _____ Bailing X Vacuum _____ Pumping (Pump Rate= 10 gpm)

Vacuum Truck No.: _____ Max.Vacuum used: 25 (Hg) PSI _____ Air assist.

#1. Static DTP: ~~0~~ #2. DTW: 33.92 PT(#2-#1): ~~0~~ Ft. Time: _____

#3. Well Depth: 53.14 #4. Water Column(#3-#2): 19.24 #5. ONE Well Vol.: 12.7 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: ~~33~~ 34.40 Total Volume Purged: ~45 G.

Recovery: ~98 % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/(°F)	EC (µS/cm) mS/cm	pH 1-14	Turbidity & Color, as NTUs	Remarks T-EC-pH Equip.Model
~~8~~:00 AM			(X1000)			STARTED
~~8~~:04 AM		69.3°	10.60	7.65	slightly turbid	
~~8~~:10 AM		70.1°	10.41	7.86	clear	
~~8~~:18 AM		70.7°	10.39	7.81	clear	
~~8~~:22 AM		70.9°	10.38	7.81	clear	
~~8~~:25 AM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3).
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells. (Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery. sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

$(53.14 - 33.92)(0.66)(3) = 38.1$ gal

D.O. = 0.60 mg/L

DADOS ATT TORRANCE
MIDLAND TX
C:\AT\FORM193.SOP

WELL PUMPING/PURGING RECORD

CAL RESOURCES / (SWEPI / H.B)

SITE NAME/LOCATION: 021602695-05100d 9-18-95 WELL #: GTW-4 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 7:00 AM

P. Method: _____ Bailing * Vacuum _____ Pumping (Pump Rate= ~~10~~ ~2. gpm)

Vacuum Truck No.: _____ Max.Vacuum used: 25 "Hg/PSI N/A Air assist.

#1. Static DTP: — #2. DTW: 33.90 PT(#2-#1): — Ft. Time: _____

#3. Well Depth: ~~53.44~~ 53.14 #4. Water Column(#3-#2): 19.24 #5. ONE Well Vol.: 12.70 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: _____ Total Volume Purged: 45 G.

Recovery: _____ % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/°F	~~EC~~ µS/cm mS/cm	pH 1-14	Turbidity & Color #8 NTUs	Remarks T-EC-pH Equip.Model
11:22 AM			(X1000)			STARTED
11:30 AM		75.9°	7.45	8.14	clear	
11:35 AM		76.3°	7.16	7.80	clear	
11:40 AM		76.5°	7.17	7.72	clear	
11:45 AM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3).
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells. (Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery. Sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

$(53.14 - 33.90)(0.66)(3) = 38.$ gal.

D.O. = 0.64 mg/L

WELL PUMPING/PURGING RECORD
CAL RESOURCES (SWEPI / H.B)

SITE NAME/LOCATION: 021602695 - 051004 WELL #: GTW-5

9-18-95 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 7:10AM

P. Method: _____ Bailing X Vacuum _____ Pumping (Pump Rate=_____)

Vacuum Truck No.: _____ Max.Vacuum used: 25 "Hg/PSI _____ Air assist.

#1. Static DTP: 0 #2. DTW: 33.89 PT(#2-#1): 0 Ft. Time: _____

#3. Well Depth: 52.78 #4. Water Column(#3-#2): 18.89 #5. ONE Well Vol.: 12.47 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: _____ Total Volume Purged: _____ G.

Recovery: _____ % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C (°F)	EC µS/cm (mS/cm)	pH 1-14	Turbidity & Color (#s) NTUs	Remarks T-EC-pH Equip.Model
12:25PM			(X1000)			STARTED
12:30 PM		71.2°	10.60	8.22	slightly turbid	
12:37PM		69.7°	10.54	8.16	"	
12:57PM		70.1°	10.36	8.11	"	
1:05PM		69.9°	10.35	8.11	"	
1:06 PM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3).
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells. (Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery. Sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

(52.78 - 33.89)(0.66)(3) = 37.4 gal

DAQUD QTI TORRANCE
M12 DA #1
CAL SOPRM193.SOP

D.O. = 0.70 mg/L

WELL PUMPING/PURGING RECORD

CAL RESOURCES / SWEPI / H.B

SITE NAME/LOCATION: 021602695 - 061004 WELL #: GTW-6

9-18-95 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 6:45AM

P. Method: _____ Bailing * Vacuum _____ Pumping (Pump Rate= 2.0 ~~10~~ gpm)

Vacuum Truck No.: _____ Max.Vacuum used: 25" (Hg)/PSI N/A Air assist.

#1. Static DTP: — #2. DTW: 34.20 PT(#2-#1): ~~19~~ Ft. Time: _____

#3. Well Depth: 53.50 #4. Water Column(#3-#2): 19.30 #5. ONE Well Vol.: 12.74 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: _____ Total Volume Purged: 40 G.

Recovery: _____ % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/(F)	EC µS/cm mS/cm	pH 1-14	Turbidity & Color, # NTUs	Remarks T-EC-pH Equip.Model
9:05AM			(X1000)			START
9:08AM		70	6.46	7.32	clear	
9:15AM		68.9	6.12	8.07	Clear	
9:20AM		68.8	6.11	8.08	clear	
9:24AM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3).
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells. (Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery. Sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

(53.50 - 34.20)(0.66)(3) = 38.2 gal

D.O. = 0.95 mg/L

WELL PUMPING/PURGING RECORD
CAL RESOURCES (SWEPI/H.B)

SITE NAME/LOCATION: 021602695 - 051004 WELL #: GTW-7
9-18-95 9-19-95

Casing ID: 4" Date/Time Purged: _____ Date/Time Sampled: 7:10 AM

P. Method: _____ Bailing * Vacuum _____ Pumping (Pump Rate= _____)

Vacuum Truck No.: _____ Max.Vacuum used: 25 (~~"Hg~~)/PSI N/A Air assist.

#1. Static DTP: ~~0~~ #2. DTW: 33.76 PT(#2-#1): ~~0~~ Ft. Time: _____

#3. Well Depth: 52.95 #4. Water Column(#3-#2): 19.19 #5. ONE Well Vol.: 12.66 G.

#6. Dynamic DTW: _____ #7. Sampled Depth: _____ Total Volume Purged: 45 G.

Recovery: _____ % Logged by: Walter Salazar Checked By(PM): _____

Time Hrs/Mins	Volume Gallons	Temp. °C/(F)	EC (µS/cm) mS/cm	pH 1-14	Turbidity & Color, # NTUs	Remarks T-EC-pH Equip.Model
11:50 AM			(X1000)	7.76		STARTED
11:56 AM		72.4°	8.94	~~8.94~~	clear	
12:05 PM		71.4°	8.86	7.59	clear	
12:12 PM		71.3°	8.86	7.58	clear	
12:14 PM						STOPPED

#1. Depth to floating product, measured in feet below top of casing (BTC).
#2. Depth to static water level, measured in feet BTC.
#3. Measured before purging in feet BTC.
#4. Subtract static DTW (#2) from the well depth(#3). (52.95 - 33.76)(0.66)(3) = 38 gal.
#5. Multiply #4 by 0.65 for 4"ID, 0.38 for 3"ID, and by 0.16 for 2"ID wells.
(Inner screen or casing volume only).
#6. Maximum depth to pumped or purged water level, in feet BTC.
#7. Sample after measuring at least 80% recovery.
Sample depth should be less than or equal to #2+(#4 x 0.2)
#8. Clear, Slightly turbid, translucent, muddy, ...etc.

D.O. = 0.75 mg/L

Shell Western E&P Inc.
CHAIN OF CUSTODY RECORD

108643ES
SWEP!-66-87-CA

LOG NUMBER _____

UNIT LOCATION CAL RESOURCES - HUNTINGTON BEACH
ADDRESS 20101 GOLDENWEST
CITY,STATE,ZIP HUNTINGTON BEACH, CALIF
COLLECTOR'S NAME R. WALTER SALAZAR
(AREA) TELEPHONE NUMBER (310) 371-1394

SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED (AM)	TYPE COMPOSITE OR GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	ANALYSIS REQUIRED: BTEX (EPA 8020)	TPH (EPA 8015) as Condensate	(EPA 8240) BTEX only HOLD - see special detection limit. (*)	HAZARDOUS SAMPLE SPECIAL HANDLING REQUIRED (*)	REMARKS
GTW-1	9/19/95	6:50	GRAB		2	*	*	*		Please analyze TPH as Condensate. Analyze 8240 samples only if Benzene is grater than 1 ppb by 8020
GTW-2	9/19/95	6:55	GRAB		2	*	*	*		
GTW-3	9/19/95	9:05	GRAB		2	*	*	*		
GTW-4	9/19/95	7:00	GRAB		2	*	*	*		
GTW-5	9/19/95	7:10	GRAB		2	*	*	*		
GTW-6	9/19/95	6:45	GRAB		2	*	*	*		
GTW-7	9/19/95	7:05	GRAB		2	*	*	*		

SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

ORIGINAL-LAB DUPLICATE-FILE TRIPLICATE-ORIGINATOR

APPENDIX B

GROUNDWATER LABORATORY RESULTS

B C Analytical

1200 Gene Autry Way
Anaheim, CA 92805
714/978-0113
Fax: 714/978-9284

ANALYTICAL REPORT

LOG NO: G95-09-360

Received: 20 SEP 95
Mailed : 09 OCT 95

Ms. Diana Lang
CalResources LLC
20101 Golden West St.
Huntington Beach, Ca. 92648
CC: Bob Ruscitto, GTI-Torrance

Project: 12330

REPORT OF ANALYTICAL RESULTS

LOG NO	09-360-1	09-360-2	09-360-3
DATE SAMPLED	19 SEP 95	19 SEP 95	19 SEP 95
SAMPLE DESCRIPTION	GTW-1-HB	GTW-2-HB	GTW-3-HB
AQUEOUS			
BTEX/TPH (8015M)			
Date Analyzed	09/22/95	09/22/95	09/22/95
Dilution Factor, Times	1	1	1
Benzene, ug/L	<0.3	<0.3	<0.3
Toluene, ug/L	<0.3	<0.3	<0.3
Ethylbenzene, ug/L	<0.3	<0.3	<0.3
Total Xylene Isomers, ug/L	<0.6	<0.6	<0.6
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<100	<100	<100
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	52.3	51.8	55.7
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

B C Analytical

1200 Gene Autry Way
Anaheim, CA 92805
714/978-0113
Fax: 714/978-9284

LOG NO: G95-09-360

Received: 20 SEP 95
Mailed : 09 OCT 95

Ms. Diana Lang
CalResources LLC
20101 Golden West St.
Huntington Beach, Ca. 92648
CC: Bob Ruscitto, GTI-Torrance

Project: 12330

REPORT OF ANALYTICAL RESULTS

LOG NO	09-360-4	09-360-6	09-360-7
DATE SAMPLED	19 SEP 95	19 SEP 95	19 SEP 95
SAMPLE DESCRIPTION	GTW-4-HB	GTW-6-HB	GTW-7-HB
AQUEOUS			
BTEX/TPH (8015M)			
Date Analyzed	09/22/95	09/22/95	09/22/95
Dilution Factor, Times	1	1	1
Benzene, ug/L	<0.3	<0.3	<0.3
Toluene, ug/L	<0.3	<0.3	<0.3
Ethylbenzene, ug/L	<0.3	<0.3	<0.3
Total Xylene Isomers, ug/L	<0.6	<0.6	<0.6
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<100	130	<100
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	58.0	54.5	55.4
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

BCA

B C Analytical

1200 Gene Autry Way
Anaheim, CA 92805
714/978-0113
Fax: 714/978-9284

LOG NO: G95-09-360

Received: 20 SEP 95
Mailed : 09 OCT 95

Ms. Diana Lang
CalResources LLC
20101 Golden West St.
Huntington Beach, Ca. 92648
CC: Bob Ruscitto, GTI-Torrance

Project: 12330

REPORT OF ANALYTICAL RESULTS

LOG NO	09-360-5
DATE SAMPLED	19 SEP 95
SAMPLE DESCRIPTION	GTW-5-HB
AQUEOUS	
BTEX/TPH (8015M)	
Date Analyzed	09/22/95
Dilution Factor, Times	1
Benzene, ug/L	0.35
Toluene, ug/L	<0.3
Ethylbenzene, ug/L	<0.3
Total Xylene Isomers, ug/L	<0.6
Carbon Range, .	C6-C12
TPH (Gasoline Range), ug/L	120
Surrogates **	
a,a,a-Trifluorotoluene Rep., ug/L	56.6
a,a,a-Trifluorotoluene Th., ug/L	50.0

BCA

B C Analytical

1200 Gene Autry Way
Anaheim, CA 92805
714/978-0113
Fax: 714/978-9284

LOG NO: G95-09-360

Received: 20 SEP 95
Mailed : 09 OCT 95

Ms. Diana Lang
CalResources LLC
20101 Golden West St.
Huntington Beach, Ca. 92648
CC: Bob Ruscitto, GTI-Torrance

Project: 12330

REPORT OF ANALYTICAL RESULTS

Jane Freemyer, Program Manager

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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BCA

Shell Western E&P Inc.
CHAIN OF CUSTODY RECORD

108643ES
SWEPI-66-87-CA

1 of 1

LOG NUMBER 12330

UNIT LOCATION CAL RESOURCES - HUNTINGTON BEACH
ADDRESS 20101 GOLDENWEST 'Gas Pump Site
CITY,STATE,ZIP HUNTINGTON BEACH, CALIF
COLLECTOR'S NAME R. WALTER SALAZAR
(AREA) TELEPHONE NUMBER (310) 371-1394

G95-09-366

SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED (AM)	TYPE COMPOSITE OR GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	ANALYSIS REQUIRED: BTEX (EPA 8020)	TPH (EPA 8015) as Condensate	(EPA 8240) BTEX only	HOLD - see special detection limit. (*)	HAZARDOUS SAMPLE SPECIAL HANDLING REQUIRED (*)	REMARKS
GTW-1	9/19/95	6:50	GRAB	GTW-1 - HB	2	*	*	*			Please analyze TPH as Condensate. Analyze 8240 samples only if Benzene is grater than 1 ppb by 8020
GTW-2	9/19/95	6:55	GRAB	GTW-2 - HB	2	*	*	*			
GTW-3	9/19/95	9:05	GRAB	GTW-3 - HB	2	*	*	*			
GTW-4	9/19/95	7:00	GRAB	GTW-4 - HB	2	*	*	*			
GTW-5	9/19/95	7:10	GRAB	GTW-5 - HB	2	*	*	*			
GTW-6	9/19/95	6:45	GRAB	GTW-6 - HB	2	*	*	*			
GTW-7	9/19/95	7:05	GRAB	GTW-7 - HB	2	*	*	*			

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY	R. Walter Salazar	Groundwater Tech. Inc.	9/20/95	11.05 am
RECEIVED BY	Daryl [illegible]	OES	9/20/95	11.05 am
RELINQUISHED BY	[illegible]	OES	9/20/95	14.30 hrs
RECEIVED BY	[illegible]	BCA	9-20-95	14:30
RELINQUISHED BY	[illegible]	BCA	9/21/95	11:11
RECEIVED BY	Sharon Malone	BCA	9/21/95	11:11

ORIGINAL—LAB DUPLICATE—FILE TRIPLICATE—ORIGINATOR

APPENDIX C

VAPOR STREAM ANALYTICAL RESULTS

Quanterra Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

July 21, 1995

GROUNDWATER TECHNOLOGY, INC.
20000 Mariner Ave., Ste. 200
Torrance, CA 90503
ATTN: MR. ROBERT RUSCITTO

ANALYSIS NO.: 112906-0001/0002-SA
ANALYSES: Modified SCAQMD Method 25.1 - Non-Condensable TCA/FID Analysis
DATE SAMPLED: 07/10/95
DATE SAMPLE REC'D: 07/10/95

PROJECT: SWEPI/HB FACILITY, GAS PUMP

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 112906-0001/0002-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

Val Mallari
Laboratory Manager

7/24/95
Date
Approved

Quanterra
Environmental
Services

SAMPLE DESCRIPTION INFORMATION
for
Groundwater Technology, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
112906-0001-SA	INF	AIR	10 JUL 95	14:30	10 JUL 95
112906-0002-SA	EFF	AIR	10 JUL 95	14:25	10 JUL 95

Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Groundwater Technology, Inc.
Client ID: INF
LAB ID: 112906-0001-SA
Matrix: AIR Sampled: 10 JUL 95 Received: 10 JUL 95
Authorized: 10 JUL 95 Prepared: N/A Analyzed: 11 JUL 95
Instrument: GC-1 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Methane	3700		1000	ppm-c
Total Non-Methane Hydrocarbons as Methane	750		5.0	ppm-c
Carbon dioxide	75000		1000	ppm-c
Carbon monoxide	ND		10	ppm-c

ND = Not Detected

Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Groundwater Technology, Inc.
Client ID: EFF
LAB ID: 112906-0002-SA
Matrix: AIR Sampled: 10 JUL 95 Received: 10 JUL 95
Authorized: 10 JUL 95 Prepared: N/A Analyzed: 11 JUL 95
Instrument: GC-1 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Methane	ND		2.0	ppm-c
Total Non-Methane Hydrocarbons as Methane	ND		5.0	ppm-c
Carbon dioxide	51000		1000	ppm-c
Carbon monoxide	ND		10	ppm-c

ND = Not Detected

Quanterra
Environmental
Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
112906-0001-SA	AIR	SCAQMD-251	11 JUL 95-A1	11 JUL 95-A1	
112906-0002-SA	AIR	SCAQMD-251	11 JUL 95-A1	11 JUL 95-A1	

Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 112906

Category: SCAQMD-251 Modified SCAWMD 25.1 - Non-Condensable
Matrix: AIR
QC Lot: 11 JUL 95-A1 Date Analyzed: 11 JUL 95
Concentration Units: ppm (v/v)

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Average(%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methane	100	91.0	89.0	90.0	90	80-120	2.2	20
Total Non-Methane Hydrocarbons as Methane	1130	1090	1090	1090	97	80-120	0.27	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental
Services

METHOD BLANK REPORT
Air Toxics
Project: 112906

Test: SCAQMD-25_1-G Method SCAQMD 25.1 Modified - Non-Condensable
Matrix: AIR
QC Run: 11 JUL 95-A1 Date Analyzed: 11 JUL 95

Analyte	Result	Units	Reporting Limit
Methane	ND	ppm-c	2.0
Total Non-Methane Hydrocarbons as Methane	ND	ppm-c	5.0
Carbon dioxide	ND	ppm-c	100
Carbon monoxide	ND	ppm-c	10

ND = Not Detected

Quarterly

CHAIN OF CUSTODY RECORD ENS-1145-A

Enseco
A Corning Company

☐ 2544 Industrial Ave., West Sacramento, CA. 95691-3435 (916) 372-1393
☐ 7440 Lincoln Way, Garden Grove, CA. 92641-1432 (714) 898-6370
☐ 18501 East Gale Ave., City of Industry, CA. 91748-1321 (818) 965-1006
☐ Mobile Labs, 1 (800) ENSECO-8

DATE: 7/10/95
CHAIN OF CUSTODY NUMBER: 12989
LAB NUMBER: 112906
Page 1 of 1

CLIENT: Groundwater Technology
PROJECT MANAGER: Robert Ruscitto X312
ADDRESS: 20000 / 200 Marina Ave
TELEPHONE NUMBER (AREA CODE): 310-371-1394
CITY: Torrance
STATE: CA
ZIP CODE: 90503
SITE CONTACT: —
PROJECT NAME: SWEPI / HB Facility, Gas Pump
TELEPHONE NUMBER (AREA CODE): —
CONTRACT/PURCHASE ORDER/QUOTE NO.: P.O. # PT-172 / P/Q # 6050594 PJH

ANALYSES: 24 hr turnaround 35.1 Non-Condensable Gases (NMHC + CO + CO2 by GC) 4 Fixed Gases (O2, N2, CO2, CO) by GC

SAMPLE NO./IDENTIFICATION	DATE	TIME (PM)	LAB/SAMPLE NUMBER	SAMPLE TYPE: LIQ.	AIR	SOLID	NO. OF CONTAINERS	Sample Condition/ REMARKS
Inf.	7/10/95	1:30			*		1	
Eff.	7/10/95	2:25			*		1	

DO THE SAMPLE(S) POSE ANY POTENTIAL HAZARD(S)? IF YES, PLEASE EXPLAIN: NONE

SAMPLERS (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME
R. Walter Salazar	R. Walter Salazar	R. Walter Salazar	7/10/95	3:46 pm

RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY		DATE	TIME		DATE	TIME
E D	RECEIVED	7/10/95	3:46 pm	ACCEPTED		

METHOD OF SHIPMENT:

SPECIAL INSTRUCTIONS:

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the **Enseco** Terms and Conditions, unless a contract or purchase order has been executed and is sited above.

SAMPLE DESPOSITION:

1. Storage time requested: _____ days (Samples will be stored for thirty (30) days without additional charge; thereafter storage charges will be billed at the published rates.)
2. Sample to be returned to client: ☐ Yes ☐ No (**Enseco** will dispose of unreturned samples for a charge of $15.00. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.)

DISTRIBUTION: WHITE - With Report; CANARY - To **ENSECO**; PINK - To Courier; GOLDENROD - To Sample Control

Quanterra Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

September 22, 1995

GROUNDWATER TECHNOLOGY INC.
20000 Mariner Ave., Ste. 200
Torrance, CA 90503
ATTN: Mr. Robert Ruscitto

ANALYSIS NO.: 114634-0001-SA
ANALYSES: Modified SCAQMD Method 25.1 - Non-Condensable TCA/FID
DATE SAMPLED: 09/14/95
DATE SAMPLE REC'D: 09/14/95

PROJECT: SWEPI/HB FACILITY, GAS PUMP

Enclosed with this letter is the report on the chemical and physical analyses for the sample from ANALYSIS NO.: 114634-0001-SA as shown above.

The sample was received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

Val Mallari
Laboratory Manager

9-28-95
Date
Approved

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Groundwater Technology, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
114634-0001-SA	INF.	AIR	14 SEP 95	10:00	14 SEP 95

Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Groundwater Technology, Inc.
Client ID: INF.
LAB ID: 114634-0001-SA
Matrix: AIR Sampled: 14 SEP 95 Received: 14 SEP 95
Authorized: 14 SEP 95 Prepared: N/A Analyzed: 15 SEP 95
Instrument: GC-1 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Methane	2.8		2.0	ppm-c
Total Non-Methane Hydrocarbons as Methane	ND	G	15	ppm-c
Carbon dioxide	12000		1000	ppm-c
Carbon monoxide	ND		10	ppm-c

G = Reporting Limit elevated due to sample matrix interference.
ND = Not Detected

Quanterra
Environmental
Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
114634-0001-SA	AIR	SCAQMD-251	15 SEP 95-A1	15 SEP 95-A1	

Quanterra
Environmental
Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 114634

Category: SCAQMD-251 Modified SCAQMD 25.1 - Non-Condensable
Matrix: AIR
QC Lot: 15 SEP 95-A1 Date Analyzed: 15 SEP 95
Concentration Units: ppm-c

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average (%) DCS	Accuracy Average (%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methane	100	101	100	100	101	80-120	1.0	20
Total Non-Methane Hydrocarbons as Methane	1130	1100	1100	1100	97	80-120	0.09	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Air Toxics
Project: 114634

Test: SCAQMD-25_1-G Method SCAQMD 25.1 Modified - Non-Condensable
Matrix: AIR
QC Run: 15 SEP 95-A1 Date Analyzed: 15 SEP 95

Analyte	Result	Units	Reporting Limit
Methane	ND	ppm-c	2.0
Total Non-Methane Hydrocarbons as Methane	ND	ppm-c	5.0
Carbon dioxide	ND	ppm-c	100
Carbon monoxide	ND	ppm-c	10

ND = Not Detected

CHAIN OF CUSTODY RECORD ENS-1145-A

Enseco
A Corning Company

☐ 2544 Industrial Ave., West Sacramento, CA. 95691-3435 (916) 372-1393
☐ 7440 Lincoln Way, Garden Grove, CA. 92641-1432 (714) 898-6370
☐ 18501 East Gale Ave., City of Industry, CA. 91748-1321 (818) 965-1006
☐ Mobile Labs, 1 (800) ENSECO-8

DATE 9-14-95 | CHAIN OF CUSTODY NUMBER 01914
LAB NUMBER 114634 | Page 1 of 1

CLIENT: Groundwater Technology, Inc
PROJECT MANAGER: Robert Ruscitto X312
ADDRESS: 20000-200 Mariner Ave
TELEPHONE NUMBER (AREA CODE): (310) 371-1394
CITY: Torrance | STATE: CA | ZIP CODE: 90503
SITE CONTACT:
PROJECT NAME: SWEP1/HB Facility, Gas Pump
TELEPHONE NUMBER (AREA CODE):
CONTRACT/PURCHASE ORDER/QUOTE NO.: P.O # PT-172 / P/Q # 60505941. PJH

ANALYSES: SCAQMD 25.1 for CH4 TNMHC NMHC-Condensable CO, CO2. by GC-FID FID

SAMPLE NO./IDENTIFICATION	DATE	TIME	LAB/SAMPLE NUMBER	SAMPLE TYPE: LIQ	AIR	SOLID	NO. OF CONTAINERS	Sample Condition/ REMARKS
INF.	9/14/95	10:00 AM			X		2	X

DO THE SAMPLE(S) POSE ANY POTENTIAL HAZARD(S)? IF YES, PLEASE EXPLAIN

SAMPLERS (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME
R. Walter Salazar		R. Walter Salazar.	9/14/95	1:28 pm

RECEIVED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY	RECEIVED	DATE	TIME	ACCEPTED	DATE	TIME
		9-14-95	1:28			

METHOD OF SHIPMENT:

SPECIAL INSTRUCTIONS:

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the **Enseco** Terms and Conditions, unless a contract or purchase order has been executed and is sited above.

SAMPLE DESPOSITION:

1. Storage time requested: _____ days (Samples will be stored for thirty (30) days without additional charge; thereafter storage charges will be billed at the published rates.)
2. Sample to be returned to client: ☐ Yes ☐ No (**Enseco** will dispose of unreturned samples for a charge of $15.00. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.)

DISTRIBUTION: WHITE - With Report; CANARY - To **ENSECO**; PINK - To Courier; GOLDENROD - To Sample Control

Invoice

Quanterra Environmental Services

Quanterra Environmental Services
18501 East Gale Ave., Suite 130
City of Industry, CA 91748
Tel: (818) 965-1006
Fax: (818) 965-1003

REMIT TO:

Quanterra Incorporated
P.O. Box 91501
Chicago, IL 606931501

Number	Date
0034107970	28 SEP 95
Quanterra Project Number	Customer Number
CRLGG-114634	00102162
Terms	
NET 30 DAYS	
Customer Contact	

Bill To:

Robert Ruscitto
Groundwater Technology, Inc.
20000 Mariner Ave.
Suite 200
Torrance, CA 90503

Robert Ruscitto
Groundwater Technology, Inc.
20000 Mariner Ave.
Suite 200
Torrance, CA 90503

Line No.	Qty.	Matrix Code	Analysis Description	Unit Price	Extended Price
			ANALYTICAL SERVICES		
1	1	AIR	Method SCAQMD 25.1 Modified - Non-Condensable	105.00	105.00
			Analytical Services Subtotal	105.00	
			ADDITIONAL SERVICES		
			Additional Services Subtotal	0.00	

PROJECT: SWEPI/HB FACILITY, GAS PUMP

Customer P.O. Number / Contract Number / Reference
PT-172

Quanterra Program Administrator
Maria Jones

Salesperson
David Mansell

Sub Total	105.00
Tax	
Total	105.00

A-4027 B

Federal Tax I.D. # 84-1271186

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

July 9, 1996

CERTIFIED MAIL #P 711 209 970
RETURN RECEIPT REQUESTED

Mr. Carl Bernhardt
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3339

Dear Mr. Bernhardt:

SUBJECT: SITE CLOSURE REQUEST, CalResources LLC
OCHCA CASE NO. 88UT110, 20101 GOLDEN WEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

In talking with Mr. Peter Peuron of Orange County Health Care Agency about CalResources LLC's UST remediation site at Huntington Beach, I understood that the Regional Water Quality Control Board had some questions or reservations regarding site closure. In particular, I understand that the lack of post-remediation soil data is a concern. Mr. Peuron asked me to forward the recent closure and groundwater monitoring reports to you.

The site is on the sea-ward side of the Newport-Inglewood Fault, only a few hundred feet from the shoreline. The impacted perched acquifer has been shown to be non-potable. There is no free product. As the **attached** groundwater monitoring and closure **reports** show, undiluted vapor samples from the inlet of the vapor extraction system were down to 110 ppm non-methane hydrocarbons at shut-down, with little rebound. Since the extractable vapor concentrations are so low, further remediation efforts will not result in commensurate benefits. Carbon-dioxide levels were elevated. Along with the depressed dissolved oxygen levels, this indicated biodegradation was underway. The only well with detectable dissolved benzene was reported at 0.35 ppb at the last sampling event. The site has been remediated to the limits of technology. The dissolved plume has shrunk throughout the term of the remediation project both in mass and area. It would appear that this site should fit your definition of low-risk regardless of soil concentrations. We therefore request site closure without further action.

If you require further information or discussion regarding this site, please call me at (805) 326-5129.

Sincerely,

S. Sen
Staff Environmental Engineer
Health, Safety & Environment - Environmental

SS:gem

Attachment

cc: Mr. Peter Peuron
Hazardous Materials Management Section
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

CalResources

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

RECEIVED
JAN 18 1996
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH

January 15, 1996

CERTIFIED MAIL #P 711 214 993
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: PROPOSED CLOSURE VERIFICATION PLAN
OCHA CASE NO. 88UT110, 20101 GOLDEN WEST STREET
HUNTINGTON BEACH, ORANGE COUNTY, CALIFORNIA

Following our telephone conversation of January 10, 1996 in which we discussed the necessity of a verification boring prior to closure, I propose the location of a boring placed as shown in the attached site plan approximately 15 feet from groundwater monitoring/vapor extraction well No. GTW-5. This will place the boring as close as possible to the location of the highest historical dissolved phase hydrocarbons without penetrating the floor of our building and in direct line towards the UST excavation.

Soil samples will be taken by standard protocols previously described in our reports every 5 ft. down into the capillary fringe. Samples will be analyzed for BTXE and total petroleum hydrocarbons as gasoline (EPA 8015/8020) if they display elevated field OVA readings. A sample from the capillary fringe will be analyzed regardless of OVA readings.

Please call me at (805) 326-5129 to notify me if you agree with this plan.

Sincerely,

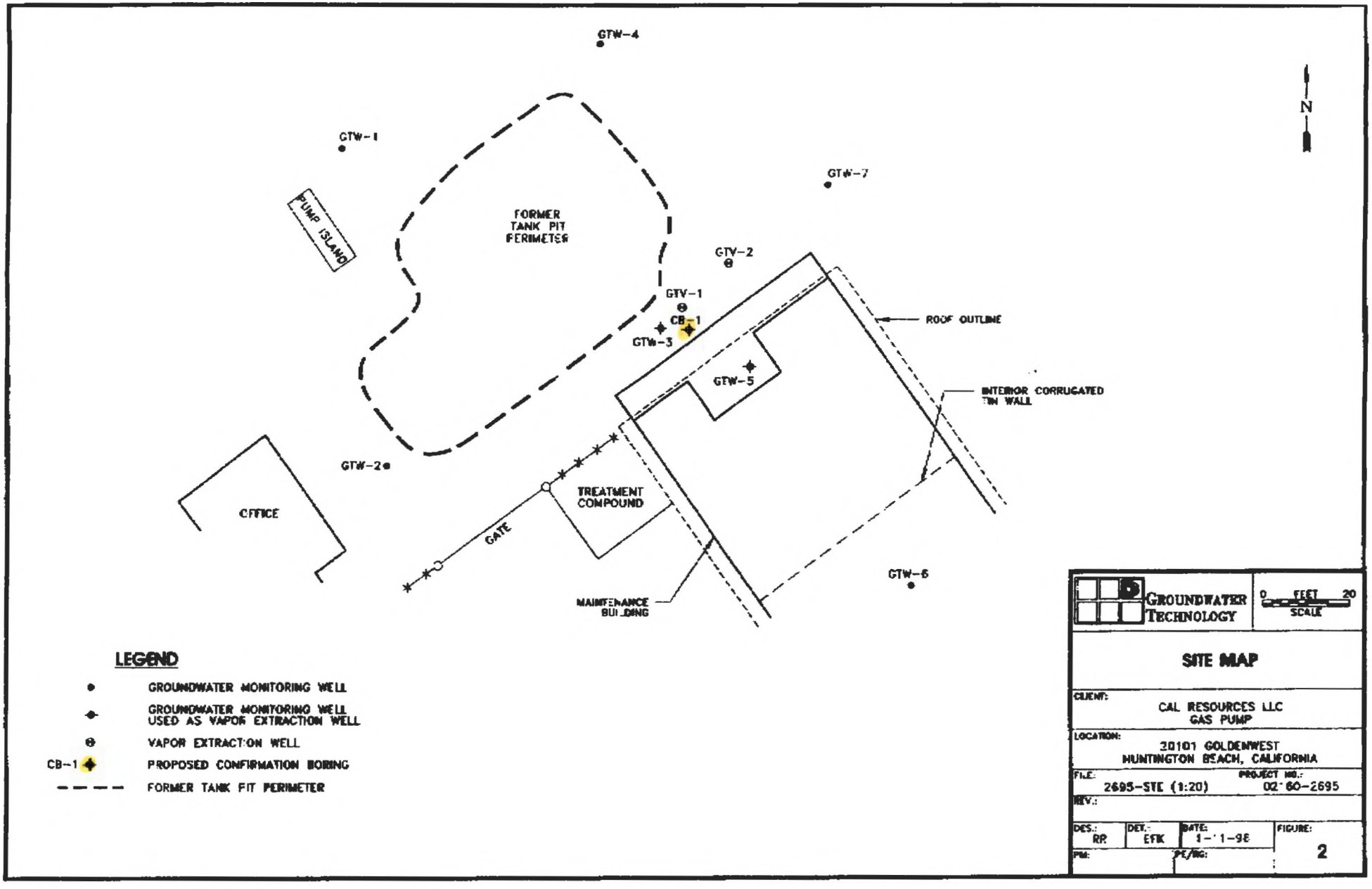


S. Sen
Staff Environmental Engineer
Health, Safety & Environment - Environmental

SS:gem

Attachment

01/12/96 15:37 ☎310 371 4782 GROUNDWATER TECH ☑001



Post-it® Fax Note 7671		Date 1-12-96	# of pages ▶ 1
To Sue Sen		From Bob Ruch	
Co./Dept. Cal Resources		Co.	
Phone #		Phone #	
Fax # 562-326-5202		Fax #	

FLUOR DANIEL GTI

December 24, 1996

Mr. Peter Peuron
Hazardous Waste Specialist
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, CA 92705-4720

Subject: Groundwater Sampling For Closure
Wells GTW-2, GTW-3, GTW-5, and GTW-6
CalResources LLC
20101 Goldenwest Street
Huntington Beach, CA
OCHCA Case #88UT110

Dear Mr. Peuron:

This letter summarizes additional groundwater sampling for closure performed at the subject site (figures 1 and 2). Groundwater sampling was performed per the Orange County Health Care Agency (OCHCA) closure requirements stated in a letter dated October 29, 1996. This letter requested that wells GTW-2, GTW-3, GTW-5 and GTW-6 (figure 2) associated with the gas pump area be sampled prior to consideration for site closure.

Groundwater Well Gauging, Purging and Sampling

On November 20, 1996, Fluor Daniel GTI personnel gauged monitoring wells GTW-1 through GTW-7. An interface probe was used to measure depth to water. Liquid-phase hydrocarbons were not detected in any of the wells. A copy of the gauging data is attached. The groundwater gradient was not calculated.

On November 20 and December 3, 1996, Fluor Daniel GTI personnel purged and sampled wells GTW-2, GTW-3, GTW-5 and GTW-6 in the gas pump area. Wells GTW-2 and GTW-6 (purged and sampled on November 20) were purged using an industrial vacuum truck and dedicated polyvinyl chloride (PVC) stingers. About 45 gallons of water were purged from each well. Wells GTW-3 and GTW-5 (purged and sampled on December 3) were purged using a low flow down hole pump decontaminated between purging. About 40 gallons were purged from each well, placed in 55-gallon containers and left on-site for disposal. Purging was performed until pH, conductivity, and temperature parameters stabilized. Well purging records are attached. All purged groundwater was disposed on-site through the CalResources on-site water treatment system.

Groundwater Sampling and Analytical Results

Following well purging, samples were collected using disposable Teflon bailers. The samples were immediately placed on ice in a cooler and transported to state-certified BCA Analytical Laboratories, Anaheim, California, following proper chain-of-custody procedures. All samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) following proper EPA Method 8015 (modified); and for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert-butyl ether (MTBE) following EPA Method 8020. In addition, a duplicate sample for well GTW-3 and a trip blank sample were collected.

TPH-g was not detected at or above the method reporting limit (100 micrograms per liter [μg/L] for TPH-g and 0.3 μg/L for benzene) in wells GTW-2, GTW-3, and GTW-6. TPH-g was detected in GTW-5 with a concentration of 180 μg/L. Benzene was not detected at or above the method reporting limit (0.3 μg/L) in all the wells sampled. In addition, MTBE was not detected at or above the method reporting limit (30 μg/L) in all the wells sampled. The laboratory reports and chain-of-custody documents are attached. Table 1 summarizes the laboratory results.

Based on the analytical results for dissolved-phase TPH-g, benzene and MTBE concentrations (all results below detection limits except for TPH-g concentrations of 180 μg/L in sample GTW-5) Fluor Daniel GTI on behalf of CalResources LLC requests that the OCHCA close this site.

If you have any questions, please contact Bob Ruscitto at (310) 371-1394, extension 312.

Sincerely,
Fluor Daniel GTI

Robert Ruscitto
Staff Geologist

Paul Parmentier
Registered Geologist
No. 3915

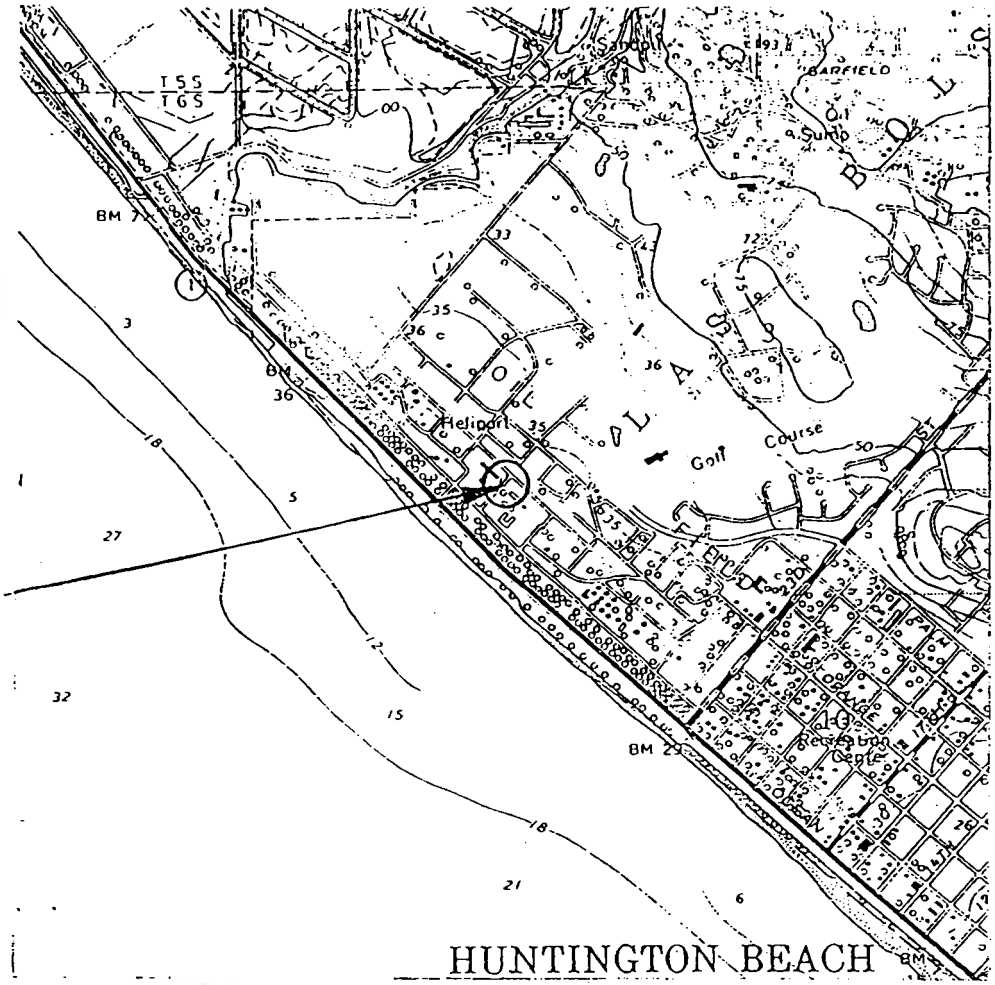
Attachments: Figures 1 and 2
Table 1
Gauging and Purging Data
Laboratory Reports

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California

N



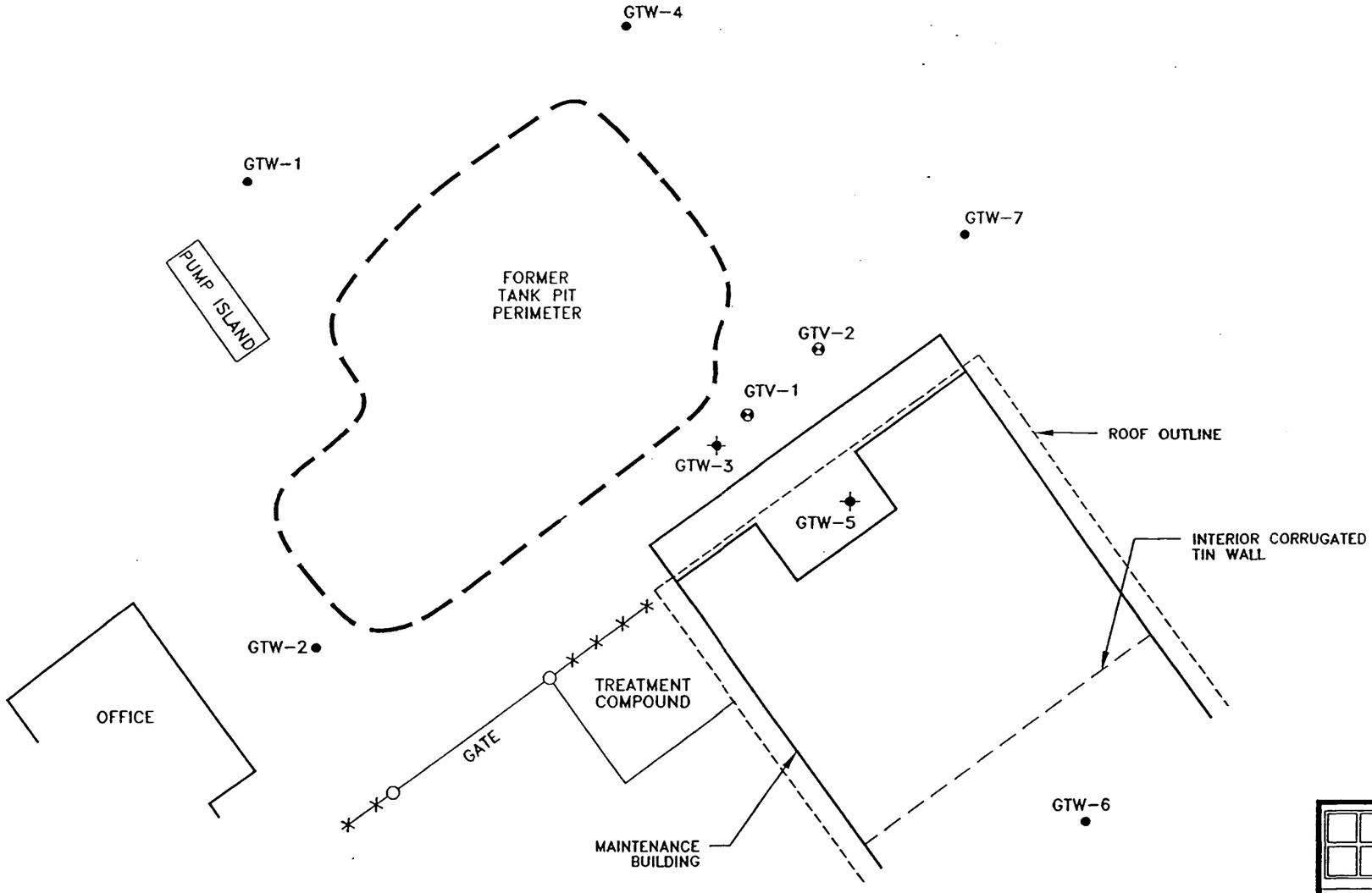
Source: U.S.G.S. Seal Beach, Calif. 1965
Photorevised 1981

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE
GROUNDWATER
TECHNOLOGY, INC.



LEGEND

- ● GROUNDWATER MONITORING WELL
- ✦ GROUNDWATER MONITORING WELL USED AS VAPOR EXTRACTION WELL
- ⊖ VAPOR EXTRACTION WELL
- – – – FORMER TANK PIT PERIMETER

GROUNDWATER TECHNOLOGY

0 FEET 20
SCALE

SITE MAP

CLIENT:
S.W.E.P.I.
GAS PUMP

LOCATION:
20101 GOLDENWEST
HUNTINGTON BEACH, CALIFORNIA

FILE:	PROJECT NO.:
2695-STE (1:20)	02160-2695

REV.:

DES.:	DET.:	DATE:	FIGURE:
RR	EFK	10/9/94	2

PM: | PE/RG:

TABLE 1

Groundwater Analytical Results

(All values reported in micrograms per kilogram)

CalResources LLC
20101 Goldenwest Street
Huntington Beach, California
November 20 and December 3, 1996

	EPA 8015m	EPA 8020				
Sample #	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
GTW-2	<100	<0.3	<0.3	<0.3	<0.6	<30
GTW-3	<100	<0.3	<0.3	<0.3	1.3	<30
GTW-5	180	<0.3	2.2	0.94	3.8	<30
GTW-6	<100	<0.3	<0.3	<0.3	<0.6	<30
Trip Blank	<100	<0.3	<0.3	<0.3	<0.6	<30
MRL	100	0.3	0.3	0.3	0.6	30

Notes: "MRL" indicates method reporting limit. "TPH-g" indicates total petroleum hydrocarbons as gasoline. "MTBE" indicates methyl tert-butyl ether. Well GTW-3 duplicate sample showed toluene and xylene concentrations of 1.0 and 1.3 μg/L, respectively.

GROUNDWATER TECHNOLOGY, INC
OIL RECOVERY SYSTEMS

WELL MONITORING/ SURVEYING REPORT

SITE NAME: CAL RESOURCES/HB Facility
LOCATION: 20101 Golden West Blvd. HB
JOB #: 021602695-051004
DATE: 11-20-96

OBSERVATION WELLS

WELL #	TIME	DTP	DTW	PT	SR	SWLE	W-ELEV	COMMENT/LOCATION OF LEVEL USED FOR SURVEYING
GTW-1		–	32.38'	–				
GTW-2		–	32.32'	–				
GTW-3		–	32.08'	–				
GTW-4		–	31.80'	–				
GTW-5		–	32.38'	–				
GTW-6		–	32.15'	–				
GTW-7	PD	.	32.25					
GTV-1		–	not found					
GTV-2		–	Dry					Bottom = 20.0'

EXPLANATION

DTP = DEPTH TO SEPARATE PHASE LIQUID FROM (TOC)
DTW = DEPTH TO WATER FROM TOP OF CASING (TOC)
PT = PRODUCT THICKNESS (FEET)

SR = STADIA ROD READING
SWLE = SURVEYED WELL HEAD ELEVATION RELATIVE TO DATUM
W-ELEV = (SWLE) MINUS (DTW)

REMARKS:

DATA RECORDED BY: Walter Salazar CHECKED BY:

REV: 3/31/93

GROUNDWATER SAMPLE FIELD DATA SHEET

PROJECT NO: 021602695-051004 WELL ID: GTW-2

CLIENT/STATION #: CAL RESOURCES (HB Facility) ADDRESS: 20101 Golden West Blvd. Huntington Beach, CA.

DATE: 11-20-96

CASING DIAMETER (inches): 2 3 (4) 4.5 5 6 8 12 Other

(CIRCLE ONE)

GALLONS/LINEAR FOOT: 0.17 0.38 (0.66) 0.83 1.02 1.5 2.6 5.8 Other

TD 53.59 - DTW 32.32 = 21.27' (WATER COLUMN) X GALLONS/LINEAR FT. = 14.03 (1 CASING VOLUME) X CASING VOLUMES = 42 CALCULATED PURGE | ACTUAL PURGE ~45

DATE PURGED: 11-20-96 START (2400 Hr) 11:40 am END (2400 Hr) 12:20 pm

DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @25°C)	TEMPERATURE °F/°C	COLOR (visual)	TURBIDITY (visual)
11:40		(?) 6.65	2.27	73.5	Slightly turbid.	
11:52		6.65	2.32	72.3	clear	
12:15		6.64	2.33	75.2	clear	
12:18		6.64	2.33	75.1	clear	

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

PURGING EQUIPMENT				SAMPLING EQUIPMENT			
	2" Bladder Pump		Bailer (Teflon®)		2" Bladder Pump		Bailer (Teflon®)
	Centrifugal Pump		Bailer (PVC)		DDL Sampler		Bailer (Stainless Steel)
	Submersible Pump		Bailer (Stainless Steel)		Dipper		Submersible Pump
*	Vac Truck						
	Dedicated			*	Bailer Disposable		Dedicated
Other:					Other:		

WATER COLUMN _____ X .80 = 80% RECHARGE _____ (TD - 80% RECHARGE = _____) SAMPLE DEPTH _____

REMARKS: _____

COMPLETED BY (PRINT NAME): Walter Salazar SIGNATURE: R. Walter Salazar

REVIEWED BY _____ DATE: 11-20-96

PAGE ____ OF ____

10

GROUNDWATER TECHNOLOGY, INC.

GROUNDWATER SAMPLE FIELD DATA SHEET

PROJECT NO: 021602695 - 051004 WELL ID: GTW-6

CLIENT/STATION #: CAL RESOURCES / HB Facility ADDRESS: 20101 Golden West Blvd. Huntington Beach, CA

DATE: 11-20-96

CASING DIAMETER (inches): 2 3 (4) 4.5 5 6 8 12 Other

(CIRCLE ONE)

GALLONS/LINEAR FOOT: 0.17 0.38 (0.66) 0.83 1.02 1.5 2.6 5.8 Other

TD 53.50 - DTW 32.15 = 21.35 (WATER COLUMN) X GALLONS LINEAR FT. = 14.09 (1 CASING VOLUME) X CASING VOLUMES = ~42 CALCULATED PURGE | ACTUAL PURGE ~45

DATE PURGED: 11-20-96 START (2400 Hr) 10:15am END (2400 Hr) 10:55 am

DATE SAMPLED: _____ START (2400 Hr) _____ END (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @25°C)	TEMPERATURE °F/°C	COLOR (visual)	TURBIDITY (visual)
10:21		6.65	0.72	72.6	Slightly Turbid	
10:35		6.65	0.73	70.6	Clear	
10:45		6.65	0.73	70.1	"	
10:50		6.65	0.74	69.8	"	

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): _____

	PURGING EQUIPMENT				SAMPLING EQUIPMENT		
	2" Bladder Pump		Bailer (Teflon®)		2" Bladder Pump		Bailer (Teflon®)
	Centrifugal Pump		Bailer (PVC)		DDL Sampler		Bailer (Stainless Steel)
	Submersible Pump		Bailer (Stainless Steel)		Dipper		Submersible Pump
*	Vac Truck						
	Dedicated			*	Bailer Disposable		Dedicated
Other:					Other:		

WATER COLUMN ~~33.75~~ X .80 = 80% RECHARGE _____ (TD - 80% RECHARGE = ~95.3) SAMPLE DEPTH 33.75

REMARKS: _____

COMPLETED BY (PRINT NAME): Walter Salazar SIGNATURE: R. Walter Salazar

REVIEWED BY _____ DATE: 11-20-96

PAGE ____ OF ____

GROUNDWATER TECHNOLOGY, INC.

GROUNDWATER SAMPLE FIELD DATA SHEET

PROJECT NO: 921602695 - 05100 4 WELL ID: GTW-3

CLIENT/STATION #: CAL RESOURCES ADDRESS:

DATE: 12-3-96

CASING DIAMETER (inches): 2 3 (4) 4.5 5 6 8 12 Other

(CIRCLE ONE)

GALLONS/LINEAR FOOT: 0.17 0.38 (0.66) 0.83 1.02 1.5 2.6 5.8 Other

TD 53.19 - DTW 33.92 = 14.29 (WATER COLUMN) X 6 (GALLONS/LINEAR FT.) = 12.71 (1 CASING VOLUME) X 3 (CASING VOLUMES) = 37.15 CALCULATED PURGE | ACTUAL PURGE 40

DATE PURGED: 12-3-96 START (2400 Hr) 10:35 END (2400 Hr) 11:04

DATE SAMPLED: 12-3-96 START (2400 Hr) 11:30 END (2400 Hr) 11:30

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @25°C)	TEMPERATURE °F/°C	COLOR (visual)	TURBIDITY (visual)
10:41	10	9.10	6.62	53.7	BLACK	CLOUDY
10:48	20	9.78	9.10	47.8	BLACK	CLOUDY
10:55	30	10.50	8.75	52.9	BROWN	CLOUDY
11:04	40	10:23	8.59	52.2	BROWN	CLOUDY

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):

	PURGING EQUIPMENT				SAMPLING EQUIPMENT		
	2" Bladder Pump		Bailer (Teflon®)		2" Bladder Pump	X	Bailer (Teflon®)
	Centrifugal Pump		Bailer (PVC)		DDL Sampler		Bailer (Stainless Steel)
X	Submersible Pump		Bailer (Stainless Steel)		Dipper		Submersible Pump
	Vac Truck						
	Dedicated				Bailer Disposable		Dedicated
Other:					Other:		

WATER COLUMN 14.27 X .80 = 80% RECHARGE 15.41 (TD - 80% RECHARGE = 37.77) SAMPLE DEPTH 34.61

REMARKS:

COMPLETED BY (PRINT NAME): Kevin Summers SIGNATURE:

REVIEWED BY Robert Ruschhaupt DATE: 12-4-96

PAGE ___ OF ___

GROUNDWATER TECHNOLOGY, INC.

GROUNDWATER SAMPLE FIELD DATA SHEET

PROJECT NO: 021608695-05700 WELL ID: GTW-5

CLIENT/STATION #: CAL RESOURCES ADDRESS:

DATE: 12-3-96

CASING DIAMETER (inches): 2 3 (4) 4.5 5 6 8 12 Other

(CIRCLE ONE)

GALLONS/LINEAR FOOT: 0.17 0.38 (0.66) 0.83 1.02 1.5 2.6 5.8 Other

TD 52.78 DTW 33.89 = 18.89 (WATER COLUMN) X 1.66 (GALLONS LINEAR FT. 1 CASING VOLUME) = 12.46 X 3 (CASING VOLUMES) = 37.40 CALCULATED PURGE | ACTUAL PURGE 40

DATE PURGED: 12-3-96 START (2400 Hr) 11:15 END (2400 Hr) 11:38

DATE SAMPLED: 12-3-96 START (2400 Hr) 12:00 END (2400 Hr) 12:00

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @25°C)	TEMPERATURE °F/°C	COLOR (visual)	TURBIDITY (visual)
11:21	10	3.75	7.22	45.6	BROWN	CLOUDY
11:27	20	10.42	7.74	68.8	CLEAR	CLEAR
11:32	30	10.30	7.50	63.9	BROWN ETC.	CLOUDY
11:38	40	8.35	801	56.9	CLEAR	CLEAR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1):

	PURGING EQUIPMENT				SAMPLING EQUIPMENT		
	2" Bladder Pump		Bailer (Teflon®)		2" Bladder Pump		Bailer (Teflon®)
	Centrifugal Pump		Bailer (PVC)		DOL Sampler		Bailer (Stainless Steel)
	Submersible Pump		Bailer (Stainless Steel)		Dipper		Submersible Pump
	Vac Truck						
	Dedicated				Bailer Disposable		Dedicated
Other:					Other:		

WATER COLUMN 18.89 X .80 = 80% RECHARGE 15.11 (TD - 80% RECHARGE = 37.66) SAMPLE DEPTH 34.13

REMARKS:

TB-1 = 12:05

COMPLETED BY (PRINT NAME): STEVE LINARES SIGNATURE:

REVIEWED BY Robert Ruscitto DATE: 12-4-96

PAGE ___ OF ___

GROUNDWATER TECHNOLOGY, INC.

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

LOG NO: G96-11-603

Received: 25 NOV 96

Mailed: DEC 04 1996

Ms. Diana Lang
CalResources LLC
20101 Goldenwest St.
Huntington Beach, CA 92648

CC: Mr. Robert Ruscitto, GTI

REPORT OF ANALYTICAL RESULTS

LOG NO	11-603-1	11-603-2
DATE SAMPLED	20 NOV 96	20 NOV 96
SAMPLE DESCRIPTION	GTW-6	GTW-2
AQUEOUS		
GRO (8020) (8015M)		
Date Analyzed	11/26/96	12/02/96
Dilution Factor, Times	1	1
Benzene, ug/L	<0.3	<0.3
Toluene, ug/L	<0.3	<0.3
Ethylbenzene, ug/L	<0.3	<0.3
Methyl-tert-butylether, ug/L	<30	<30
Total Xylene Isomers, ug/L	<0.6	<0.6
Carbon Range, .	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<100	<100
Surrogates **		
a,a,a-Trifluorotoluene Rep., ug/L	46.9	52.2
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0

BCA—Division of V.O.C. Analytical Laboratories, Inc.
1212 E. Katella Avenue, Anaheim, CA 92805 • Phone: (714) 978-0113 • Fax (714) 978-9284

Our Quality Control Is Your Quality Assurance

LOG NO: G96-11-603

Received: 25 NOV 96

Ms. Diana Lang
CalResources LLC
20101 Goldenwest St.
Huntington Beach, CA 92648

CC: Mr. Robert Ruscitto, GTI

REPORT OF ANALYTICAL RESULTS

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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ORDER PLACED FOR CLIENT: CalResources LLC 9611603 :
BC ANALYTICAL : GLEN LAB : 17:00:21 03 DEC 1996 - P. 1 :

MPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
11603*1	GTW-6	GAS.TPH.MTBE	11.26.96	8015M	536-35	964179	6843
11603*2	GTW-2	GAS.TPH.MTBE	12.02.96	8015M	536-21	96297	8501

*

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL									MATRIX QC								
					LCS		LCSD				RPD	RPD		MS		MSD				RPD	RPD	
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*96297 Method: 8015M - Modified 8015																						
Benzene	ug/L	0	0.3	-	132	-	-	-	76	155	-	-	-	134	-	128	-	70	153	5	25	-
Toluene	ug/L	0	0.3	-	110	-	-	-	72	121	-	-	-	125	Q	112	-	69	119	10	25	-
Ethylbenzene	ug/L	0	0.3	-	100	-	-	-	72	115	-	-	-	115	-	102	-	68	116	12	25	-
Methyl-tert-butylether	ug/L	0	30	-	96	-	-	-	62	159	-	-	-	103	-	107	-	80	176	3	25	-
Total Xylene Isomers	ug/L	0	0.6	-	97	-	-	-	68	115	-	-	-	118	-	101	-	61	118	15	25	-
TPH (Gasoline Range)	ug/L	0	100	-	114	-	-	-	85	120	-	-	-	131	Q	112	-	78	124	16	25	-
[a,a,a-Trifluorotoluene]	Percent	126	-	Q	97	-	-	-	85	118	-	-	-	87	-	86	-	85	118	-	-	-
Batch: GAS*964179 Method: 8015M - Modified 8015																						
Benzene	ug/L	0	0.3	-	134	-	-	-	76	155	-	-	-	127	-	131	-	70	153	3	25	-
Toluene	ug/L	0	0.3	-	102	-	-	-	72	121	-	-	-	98	-	100	-	69	119	2	25	-
Ethylbenzene	ug/L	0	0.3	-	103	-	-	-	72	115	-	-	-	100	-	102	-	68	116	2	25	-
Methyl-tert-butylether	ug/L	0	30	-	95	-	-	-	62	159	-	-	-	99	-	98	-	80	176	2	25	-
Total Xylene Isomers	ug/L	0	0.6	-	98	-	-	-	68	115	-	-	-	95	-	97	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	100	-	107	-	-	-	85	120	-	-	-	103	-	108	-	78	124	5	25	-
[a,a,a-Trifluorotoluene]	Percent	108	-	-	128	Q	-	-	85	118	-	-	-	120	Q	120	Q	85	118	-	-	-

AQUEOUS SAMPLES

Batch: GAS*96297 Method: 8015M - Modified 8015

		B612110*1	C612190*1		N/A		9611620*7	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	12/03/96	12/02/96	12/02/96	-	-	12/02/96	-	12/02/96	12/02/96	12/02/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Benzene	ug/L	0	20.0	15.2	-	-	<0.5	-	20.4	19.4	15.2
Toluene	ug/L	0	107	97.4	-	-	0.53	-	122	110	97.9
Ethylbenzene	ug/L	0	20.4	20.4	-	-	<0.5	-	23.5	20.9	20.4
Methyl-tert-butylether	ug/L	0	116	121	-	-	<30	-	125	129	121
Total Xylene Isomers	ug/L	0	116	119	-	-	0.86	-	141	121	120
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	ug/L	0	1250	1100	-	-	<50	-	1440	1230	1100
a,a,a-Trifluorotoluene Rep.	ug/L	62.8	48.4	50.0	-	-	53.1	-	43.6	43.1	50.0
a,a,a-Trifluorotoluene Th.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

Batch: GAS*964179 Method: 8015M - Modified 8015

		B6111781*1	C6113366*1		N/A		9611563*4	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	11/25/96	11/25/96	11/25/96	-	-	11/26/96	-	11/26/96	11/26/96	11/26/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Benzene	ug/L	0	20.3	15.2	-	-	<0.5	-	19.3	19.9	15.2
Toluene	ug/L	0	99.5	97.4	-	-	<0.5	-	95.8	97.7	97.4
Ethylbenzene	ug/L	0	21.0	20.4	-	-	<0.5	-	20.5	20.9	20.4
Methyl-tert-butylether	ug/L	0	115	121	-	-	<30	-	120	118	121
Total Xylene Isomers	ug/L	0	117	119	-	-	<0.5	-	113	115	119
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	ug/L	0	1180	1100	-	-	<50	-	1130	1190	1100
a,a,a-Trifluorotoluene Rep.	ug/L	53.9	63.9	50.0	-	-	51.1	-	60.0	60.1	50.0
a,a,a-Trifluorotoluene Th.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

Shell Western E&P Inc.
CHAIN OF CUSTODY RECORD

108643ES
SWEP1-66-87-CA

1/2 1265

CalResources LLC

Consultant: Fluor Daniel GTI, Contact R. Ruscitto

LOG NUMBER 9611603

UNIT LOCATION CAL RESOURCES - HUNTINGTON BEACH
ADDRESS 20101 Golden West Ave.
CITY, STATE, ZIP Huntington Beach, CA
COLLECTOR'S NAME Roberto Walter Salazar R. Ruscitto
(AREA) TELEPHONE NUMBER (310) 371-1394 x312

SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	TYPE COMPOSITE OR GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	ANALYSIS REQUIRED: BTEX / TPH as gas (and MTBE)	ANALYSIS REQUIRED: HAZARDOUS SAMPLE SPECIAL HANDLING REQUIRED	REMARKS
	11-20-96	11:15	Grab	GTW-6	2	*		Quantify data for MTBE from 8020 analysis.
	11-20-96	11:40	Grab	GTW-2	2	*		
								TAT = 5 days
								Direct Bill to CalResources - Diana Law is contact

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY	R. Walter Salazar.	Fluor Daniel GTI	11/25/96	0730
RECEIVED BY	Robert Ruscitto	Fluor Daniel GTI	11/25/96	0730
RELINQUISHED BY	Robert Ruscitto	Fluor Daniel GTI	11-25-96	11:30 AM
RECEIVED BY	Monique Nicholson	BCA/VOC	11-25-96	11:30 AM
RELINQUISHED BY	Monique Nicholson	BCA/VOC	11-25-96	12:15 PM
RECEIVED BY	Susan Quonsalth	BCA/VOC	11-25-96	12:15 PM

ORIGINAL–LAB DUPLICATE–FILE TRIPLICATE–ORIGINATOR

DEC 10 1996

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

LOG NO: G96-12-037

Received: 03 DEC 96

Mailed: DEC 09 1996

Ms. Diana Lang
CalResources LLC
20101 Goldenwest St.
Huntington Beach, CA 92648

Project: HB.GAS.PUMP.AREA/14965

REPORT OF ANALYTICAL RESULTS

LOG NO	12-037-1	12-037-2	12-037-3
DATE SAMPLED	03 DEC 96	03 DEC 96	03 DEC 96
SAMPLE DESCRIPTION	1-GTW-3	2-GTW-3-DUPLICATE	3-GTW-5
AQUEOUS			
GRO (8020) (8015M)			
Date Analyzed	12/05/96	12/05/96	12/06/96
Dilution Factor, Times	1	1	1
Benzene, ug/L	<0.3	<0.3	<0.3
Toluene, ug/L	<0.3	1.0	2.2
Ethylbenzene, ug/L	<0.3	<0.3	0.94
Methyl-tert-butylether, ug/L	<30	<30	<30
Total Xylene Isomers, ug/L	1.3	1.3	3.8
Carbon Range, .	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range), ug/L	<100	<100	180
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L	45.7	47.7	47.5
a,a,a-Trifluorotoluene Th., ug/L	50.0	50.0	50.0

Our Quality Control Is Your Quality Assurance

LOG NO: G96-12-037

Received: 03 DEC 96

Ms. Diana Lang
CalResources LLC
20101 Goldenwest St.
Huntington Beach, CA 92648

Project: HB.GAS.PUMP.AREA/14965

REPORT OF ANALYTICAL RESULTS

LOG NO		12-037-4	
DATE SAMPLED		03 DEC 96	
SAMPLE DESCRIPTION		Trip Blank	
AQUEOUS			
GRO (8020) (8015M)			
Date Analyzed		12/05/96	
Dilution Factor, Times		1	
Benzene, ug/L		<0.3	
Toluene, ug/L		<0.3	
Ethylbenzene, ug/L		<0.3	
Methyl-tert-butylether, ug/L		<30	
Total Xylene Isomers, ug/L		<0.6	
Carbon Range, .		C6-C12	
TPH (Gasoline Range), ug/L		<100	
Surrogates **			
a,a,a-Trifluorotoluene Rep., ug/L		46.5	
a,a,a-Trifluorotoluene Th., ug/L		50.0	

Our Quality Control Is Your Quality Assurance

LOG NO: G96-12-037

Received: 03 DEC 96

Ms. Diana Lang
CalResources LLC
20101 Goldenwest St.
Huntington Beach, CA 92648

Project: HB.GAS.PUMP.AREA/14965

REPORT OF ANALYTICAL RESULTS

Hal Cochran for GG

Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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· ORDER PLACED FOR CLIENT: CalResources LLC 9612037 :
BC ANALYTICAL : GLEN LAB : 09:12:43 09 DEC 1996 - P. 1 :
==========

MPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9612037*1	1-GTW-3	GAS.TPH.MTBE	12.05.96	8015M	536-36	966189	6843
12037*2	2-GTW-3-DUPLICATE	GAS.TPH.MTBE	12.05.96	8015M	536-36	966189	6843
9612037*3	3-GTW-5	GAS.TPH.MTBE	12.06.96	8015M	536-35	964184	6843
9612037*4	Trip Blank	GAS.TPH.MTBE	12.05.96	8015M	536-36	966189	6843

***

Notes: Equipment = BC Analytical identification number for a particular piece of analytical equipment.

ID.NO = BC Analytical employee identification number of analyst.

BC ...ICAL, ...NDAL...
QC REPORT FOR 9612037
DATE PRINTED: 09 DEC 1996

AQUEOUS SAMPLES		------ METHOD BLANK ------			---------- LAB CONTROL ----------								---------- MATRIX QC ----------								
					LCS		LCSD					RPD	RPD	MS		MSD					RPD	RPD
	UNITS	RESULT	RDL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*964184 Method: 8015M - Modified 8015																						
Benzene	ug/L	0	0.3	-	141	-	-	-	76	155	-	-	-	116	-	114	-	70	153	2	25	-
Toluene	ug/L	0	0.3	-	108	-	-	-	72	121	-	-	-	90	-	90	-	69	119	0	25	-
Ethylbenzene	ug/L	0	0.3	-	108	-	-	-	72	115	-	-	-	91	-	91	-	68	116	0	25	-
Methyl-tert-butylether	ug/L	0	30	-	129	-	-	-	62	159	-	-	-	102	-	104	-	80	176	2	25	-
Total Xylene Isomers	ug/L	0	0.6	-	104	-	-	-	68	115	-	-	-	87	-	87	-	61	118	0	25	-
TPH (Gasoline Range)	ug/L	0	100	-	111	-	-	-	85	120	-	-	-	104	-	90	-	78	124	7	25	-
[a,a,a-Trifluorotoluene]	Percent	102	-	-	109	-	-	-	85	118	-	-	-	103	-	101	-	85	118	-	-	-
Batch: GAS*966189 Method: 8015M - Modified 8015																						
Benzene	ug/L	0	0.3	-	120	-	109	-	76	155	10	-	-	107	-	100	-	70	153	7	25	-
Toluene	ug/L	0	0.3	-	100	-	97	-	72	121	3	-	-	92	-	92	-	69	119	0	25	-
Ethylbenzene	ug/L	0	0.3	-	103	-	101	-	72	115	2	-	-	94	-	90	-	68	116	4	25	-
Methyl-tert-butylether	ug/L	0	30	-	94	-	103	-	62	159	9	-	-	107	-	84	-	80	176	23	25	-
Total Xylene Isomers	ug/L	0	0.6	-	101	-	100	-	68	115	1	-	-	92	-	91	-	61	118	2	25	-
TPH (Gasoline Range)	ug/L	0	100	-	96	-	97	-	85	120	1	-	-	98	-	70	Q	78	124	34	25	Q
[a,a,a-Trifluorotoluene]	Percent	106	-	-	120	Q	113	-	85	118	-	-	-	108	-	111	-	85	118	-	-	-

SUPPLEMENTAL QC REPORT FOR 9612037
DATE PRINTED: 09 DEC 1996

AQUEOUS SAMPLES

Batch: GAS*964184 Method: 8015M - Modified 8015

		B612486*1	C612914*1		N/A		9611668*2	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	12/05/96	12/05/96	12/05/96	-	-	12/06/96	-	12/06/96	12/06/96	12/06/96
Dilution Factor	Times	1	1	1	-	-	1	-	1	1	1
Benzene	ug/L	0	21.4	15.2	-	-	0.88	-	18.5	18.2	16.1
Toluene	ug/L	0	105	97.4	-	-	<0.5	-	88.0	87.9	97.4
Ethylbenzene	ug/L	0	22.0	20.4	-	-	2.7	-	21.2	21.2	23.1
Methyl-tert-butylether	ug/L	0	156	121	-	-	<30	-	123	126	121
Total Xylene Isomers	ug/L	0	124	119	-	-	10	-	113	113	129
Carbon Range	.	C6-C12	C6-C12	C6-C12	-	-	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	ug/L	0	1220	1100	-	-	1100	-	2240	2090	2200
a,a,a-Trifluorotoluene Rep.	ug/L	51.0	54.6	50.0	-	-	43.4	-	51.4	50.4	50.0
a,a,a-Trifluorotoluene Th.	ug/L	50.0	50.0	50.0	-	-	50.0	-	50.0	50.0	50.0

Batch: GAS*966189 Method: 8015M - Modified 8015

		B612489*1	C612918*1		C612921*1		9612037*1	.....	.....	.....	.....
	UNITS	MB	LC	LT	LC	LT	R1	R2	S1	S2	T
Date Analyzed	Date	12/05/96	12/05/96	12/05/96	12/05/96	12/05/96	12/05/96	-	12/05/96	12/05/96	12/05/96
Dilution Factor	Times	1	1	1	1	1	1	-	1	1	1
Benzene	ug/L	0	18.2	15.2	16.5	15.2	<0.3	-	16.3	15.2	15.2
Toluene	ug/L	0	97.1	97.4	94.4	97.4	<0.3	-	89.4	89.4	97.4
Ethylbenzene	ug/L	0	21.1	20.4	20.7	20.4	<0.3	-	19.1	18.3	20.4
Methyl-tert-butylether	ug/L	0	114	121	125	121	<30	-	129	102	121
Total Xylene Isomers	ug/L	0	120	119	119	119	1.3	-	110	108	119
Carbon Range	.	C6-C12	C6-C12	C6-C12	C6-C12	C6-C12	C6-C12	-	C6-C12	C6-C12	C6-C12
TPH (Gasoline Range)	ug/L	0	1060	1100	1070	1100	<100	-	1080	769	1100
a,a,a-Trifluorotoluene Rep.	ug/L	53.2	60.0	50.0	56.5	50.0	45.7	-	54.0	55.3	50.0
a,a,a-Trifluorotoluene Th.	ug/L	50.0	50.0	50.0	50.0	50.0	50.0	-	50.0	50.0	50.0

Shell Western E&P Inc.
CHAIN OF CUSTODY RECORD 196120 37

108643ES
SWEPI-66-87-CA

LOG NUMBER 1496S

UNIT LOCATION CalResources - HB Gas Pump Area
ADDRESS 20101 Goldenwest St
CITY,STATE,ZIP Huntington Beach, CA 92648
COLLECTOR'S NAME STEVE LINDZES
(AREA) TELEPHONE NUMBER (310) 371-1394

SAMPLE NUMBER	DATE SAMPLED	TIME SAMPLED	TYPE COMPOSITE OR GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	ANALYSIS REQUIRED: BTEX / and MTBE TPH as Gas	HAZARDOUS SAMPLE SPECIAL HANDLING REQUIRED	REMARKS
1	12/3/96	11:30 am	G	GTW-3	2	✓		Quantify data for MTBE from 8020 analysis
2	12/3/96	11:30 am		GTW-3 - Duplicate	2	✓		
3	12/3/96	12:00 am		GTW-5	2	✓		
4	12/3/96	12:05 pm		Trip Blank	2	✓		

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY		FLUOR DANIEL GTI	12-3-96	12:18
RECEIVED BY	Diana Lang	CalResources	12-3-96	12:18
RELINQUISHED BY	Diana Lang	CalResources	12-3-96	245
RECEIVED BY		BCA/COC	12-3-96	2:45
RELINQUISHED BY				
RECEIVED BY				

ORIGINAL–LAB DUPLICATE–FILE TRIPLICATE–ORIGINATOR

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

Company Name: SW&PI (Cal Resources)

Address: 20101 Golden West

City: H.B. State: _____ Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
12-26-96	P.P.	approved at this Agency. Will need to make changes to closure summary.
1-3-97	P.P.	Completed Closure Summary
1-13-97	P.P.	FAXed closure statement to Regional Board.
2-13-97	P.P.	Spoke w/ C. Bernhardt. He could not find closure summary. FAXed him another copy.
3-6-97	P.P.	Spoke w/ Carl Bernhardt of the Board. He is processing closure. Discussed soil contaminant levels.
3-11-97	P.P.	Received approved closure summary from C. Bernhardt. Draft of closure letter.
3-13-97	P.P.	Mailed closure letter - case closed

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

Company Name: SWEPI (Cal Resources)

Address: 20101 Goldenwest

City: Huntington Bch. State: _____ Zip: _____

Contact Person(s): Sub Sen / Bob Resitio

Phone: (805) 326-5129
(310) 371-1349 x 312

Date	Staff	Activities/Comments
10-29-96	P.P.	Spoke w/ Carl Bernhardt. Decided that they could better make the decision regarding closure if we sent over the closure rationale. Called Bob Resitio. Discussed situation. Noted MTBE issue. Called Carl Back - need MTBE analyzed for. Called Bob. Told him we need MTBE in 4 wells GTW 2, 3, 5 & 6. Drafted letter asking for another round of water sampling. Faxed letter
12-26-96	P.P.	Review of 12-24-96 "Groundwater Sampling for Closure" report. Benzene or MTBE found in wells GTW-2, GTW-3, GTW-5 & GTW-6. Trace T, E & X in GTW-5 w/ 180 PPB TPH. Detection limit for MTBE was 30 PPB. File review shows closure rationale is not yet

COUNTY OF ORAN
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

Company Name: SWEPI (CAL RESOURCES)

Address: 20101 GOLDEN WEST STREET

City: HUNTINGTON BEACH State: CA Zip:

Contact Person(s): SUB SEA Phone: (805) 326-5129

Date	Staff	Activities/Comments
6-25-96	P.P.	Review for closure. Work on closure summary, submitted to Sub Sea
7-3-96	P.P.	Received note from K. Hodel. She asked if MTBE analysis was done (it wasn't - last sampling round was in September). Also, she asked why we are not requiring a confirmation boring. Low risk designation of the area (seaward of the Newport-Inglewood Fault) is basis for these issues. My interpretation is, if we only require free product removal at low risk ~~sites~~ sites, soil cleanup and dissolved phase MTBE would not be issues (note that other considerations, i.e. vapor risk & ecological issues are not at issue.
7-5-96	P.P.	Work on closure summary. Discussed site issues w/ C. Bernhardt. He needs a copy of the closure report called Sub Sea. Left message requesting he send Carl a copy.

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

Company Name: SWEPI

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA Zip:

Contact Person(s): SUB SEN Phone: (805) 326-5129

Date	Staff	Activities/Comments
T.P.	1-5-96	T. miller review re: closure Called Sub Sen. ~~Sen~~ He is out until Mo 8th. Note 11-13-91 letter re: confirmation soil samples and need for "after" soil samples as rationale for closure. Need to verify.
1-10-96	P.P.	Spoke w/ Sub Sen. Requested that he provide a workplan for a soil confirmation boring. Discussed closure issue.
2-8-96	P.P.	Spoke w/ Bob & G.T.I. He said workplan for confirmation boring will be in soon.
2-27-96	P.P.	Spoke w/ Sub Sen. Informed him that the Newport Inglewood fault will probably be driving criteria for low vs. high risk determination. With suspected requirement for confirmation boring.
6-14-96	P.P.	Case Survey Update.

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

Company Name: SWEPI

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA. Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
8-29-95	P.P.	surprisingly steady and significant rate of reduction in benzene levels. Table 3 also shows this for TPH. Table 5 shows D.O levels from the wells. Highest D.O. was only 0.74 mg/L.
12-19-95	P.P.	Review of 10-31-95 Quarterly Report & cover letter. Cover letter request closure based on having reached the "practical limits of technology". The only benzene hit was 0.35 PPB detected in well GTW-5 for this last sampling round.
12-20-95	P.P.	Further review appears that groundwater is somewhat deep (as was last round). Checked previous reports which seem to indicate that current depth to groundwater is lower than usual (by a foot or two). May be a factor to consider. Appears that we need a bit confirmation sampling. Current boring should be O.K. (given low water results). Called Jim Lee. He will be back in January.

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISIO
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SWEPT

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
2-22-95	P.P.	Ne quarter 4,702 pounds ~~of~~ of gasoline was removed. Flow rate was 510 to 540 SCFM, Well GTW-5 had 62 PPB benzene. Other wells had N.D.
5-18-95	P.P.	Review of 4-14-95 Quarterly Report. Vapor recovery rate most recently was about 4 lbs per day. High flow rate - over 500 SCFM. Water contaminant level in the only well showing an impact is down to 62 PPB benzene (lowest level yet) and 3,100 PPB TPH. Appears that site is nearing the point where closure is possible. System was not running at time report was generated.
8-29-95	P.P.	Review of 7-28-95 monitoring & quarterly report + 8-8-95 cover letter. Only well GTW-5 was impacted, with 490 PPB TPH and 44 PPB benzene - trace T, E & E. Table 4 shows

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SWEPI

Address: 20101 Goldenwest

City: Huntington Beach State: CA Zip:

Contact Person(s): Phone:

Date	Staff	Activities/Comments
8-24-94	P.P.	GTW-5 with 420 PPB. It is
		weighty in center & plume. Remediation
		appear to be continuing successfully.
		Figure 5 shows that cumulative
		removal curve is still moving up at
		a steep angle.
9-7-94	P.P.	Update. Quarterly due in mid November.
12-27-94	P.P.	File review & update. Need Quarterly Report.
		Draft of Quarterly Request Letter
1-6-95	P.P.	Review of 10-17-94 Quarterly Report &
		1-5-95 cover letter. Total of 1,382
		pounds of TPH was extracted during the
		quarter. Cumulative removal at 6,445 lbs.
		After some shutdown, remedial operations
		have resumed on 12-2-91. Of the 7 wells
		sampled, only GTW-5 was contaminated,
		with 3,300 PPB of TPH and 73 PPB benzene.
		Cover letter estimates treatment will continue until
		late 1996.
2-22-95	P.P.	Review of 1-26-95 Quarterly Report. Pairing

ENVIRONMENTAL HEALTH DIV
WASTE MANAGEMENT SECTIO

ACTIVITIES REPORT

Company Name: SWEPI

Address: 20101 Sidewinder

City: Huntington Beach State: CA Zip:

Contact Person(s): Phone:

Date	Staff	Activities/Comments
3-16-94	P.P.	Figure 6 shows that removal rate was still climbing rather steeply, asked Bob Jew about units conversion for determining mass removal rate - specifically, the meaning of 0.264 lbs TPH / FT^3 TPH. Is this a vapor concentration in air? He will have consultant call me.
3-18-94	P.P.	Spoke w/ consultant at GTI. He will have an engineer call me. TPH conversion factors.
6/13/94	P.P.	Review 3-25-94 monitoring report. Cover letter (5-18-94) states that VES was to be restarted 5-24-94. Highest benzene in water was 150 PPB. Well GTW-5 had: 150 PPB benzene and 4800 PPB TPH.
8-24-94	P.P.	Review of 7-14-94 Quarterly Monitoring report. About 460 pounds of contamination removed during the Quarter. Only one well surveyed w/ benzene. Engineer

REV:10/31/95

FROM 511

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISI
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: Shell Western

Address: 20101 Goldenwest

City: Huntington Beach State: CA. Zip:

Contact Person(s): Phone:

Date	Staff	Activities/Comments
6-9-93	P.P.	Review of 4-9-93 Quarterly Report. Only significant level of benzene was 150 PPB in 67W-5. This is large drop from earlier values. V.E.S. system has been turned off as they switch treatment from thermal oxidizer to an Ad West Gravel Bed.
9-1-93	P.P.	Review of 2nd 1/4 monitoring report. High rate of vapor recovery continues. Stable benzene concentration in water at appears - 170 PPB.
11-22-93	P.P.	Spoke w/ Duke of EPA. Told him what site status was.
3-16-94	P.P.	File review. Review of 1-24-94 "Quarterly Monitoring Report". Appears that the VES system was shut down and moved to area where other decomp activities are taking place. Spoke with Sue Sen. He said the system shutdown is temporary. In next couple a month system will be moved back. Note that

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA. Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
6-16-92	P.P.	Not clear if V.E.S. continues. Levels in discharge phase show a slight increase since last quarter. The direction of gradient has changed from northwest to southwest.
8-4-92	P.P.	File review. ~~Called~~ Spoke with Sub Serv. V.E.S. will be still operating on the site. A larger treatment system is being installed.
9-3-92	P.P.	Review of 7-17-92 Quarterly Report. A thermal oxidizer should have been installed in July (to take over for vapor destruction during IC ensure the AQMD permit expired).
11-23-92	P.P.	Review "3rd Quarter" report - well 5 levels stable or dropping still. Pump & treat & V.E.S. continue.
12-29-92	P.P.	Spoke w/ J. Hundley after review of 12-10-92 letter requesting less frequent Qtly monitoring. Told John this is acceptable.

REV: 04/15/91 FORM #33

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
11-7-91	P.P	letter of R.A.P. Required that new location
	✓	of verification sampler be proposed
		since present location would not be
		worst case.
11-25-91	P.P	Filing & review.
1-16-92	P.P.	Received call from S. Pownier re:
		billing out State form.
2-21-92	P.P.	Review of 4th Monitoring Report of 1-28-92.
		Groundwater contamination levels
		in wells has dropped. V.E.S.
		achieved high recovery. Expect
		completion of V.E.S within 35
		days after system restart (has
		been shut down due to excess emission.
		Note 11-13-91 letter which sets
		conditions for completion of V.E.S. activities.
4-20-92	P.P.	File review - Will address site after next
		Quarterly update - which is expected within
		a month.
5-16-92	PP	Review of Quarterly Monitoring Report

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: _____ Zip: _____

Contact Person(s): _____ Phone: _____

Date	Staff	Activities/Comments
11-7-91	P.P.	firstly using a containment approach (which will include some amount of well pump-out) since it appears that much water would only be drawn through contaminated zones if pump & treat were to be done. Review of R.A.P.: (10-15-91) R.A.P. proposes in-situ venting, but the A.Q.M.D. permit is for above ground treatment of spoils piles. Called John Hundley to ask about this. Z. Mc. spoke w/ J. Hundley. John said that the permit applies to both above-ground and in-situ vapor extraction. He pointed out that the permit applies to "vapor ~~wells~~ extraction wells" (See "1." under "Equipment Description" and therefore (he said) it applies generically to all vapor extraction wells (whether above ground or not). Drafted approval

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISIO..
WASTE MANAGEMENT SECTION

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH State: CA. Zip:

Contact Person(s): SUB SEN Phone: (805) 326-5129

Date	Staff	Activities/Comments
9-26-91	P.P.	one-half for every 20,500 cu. ft. of water pumped. QUESTION IS COULD THERE BE NAPLs IN PROXIMITY TO GROUNDWATER? NEED TO IDENTIFY LEAK SOURCE AND LOCATION OF RESIDUALLY SATURATED PRODUCT (IDENTIFY PATH OF BULK PHASE MOVEMENT). Note that drop in concentration which was attributed to pumping tends to indicate that such NAPL is not present in significant quantities. Recommendation on page 7 is to remediate vadose zone to eliminate source of contamination. Met with John ~~Hall~~ Hundley and Bill Girdano of Groundwater Tech. and Sub Sen of Surpi. They plan to go ahead with V.E.S. to remove source and to adopt containment strategy for groundwater. Told them that Judy report does seem to

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH, CA

Contact Person(s): SUB SEN Phone: (805)326-5129

Date	Staff	ACTIVITIES/COMMENTS
8-14-91	P.P.	and continued monitoring of groundwater. Note that last sampling of groundwater was in May and sampling before that was at the end of December (So this report has latest sampling from May) Cover letter says a Remedial Action Plan will be prepared shortly (should receive at the end of September). Analysis of groundwater recovery says that "action levels" (State) can be reached if groundwater is pumped continuously for 200 days. On page 6 it says that there is about 20,500 cubic feet of water with 2000 PPB and this can be removed by pumping continuously for 21 days. Page 5 shows calculation method used.
9-26-91	P.P.	Awaiting remedial action workplan from SWEPI (September). Review of file for meeting. Report of 7-12-91 says no "free phase liquid" in any well. Note 2 complicating factors in calculation of amount of water that must be pumped (Pg 5 claims 153,000 gallons) (1) a certain fraction of the water is not drainable and will stay to mix with inflowing clean water (as described on pg. 5) (2) existence of NAPL would create a similar residual effect. They estimate

ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ H.W. SITE

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: H.B.

Contact Person(s): SUB SEN Phone: (805)326-5129

Date	Staff	ACTIVITIES/COMMENTS
3-22-91	P.P.	File review. Awaiting onset of remedial activities.
4-9-91	P.P.	Review of 3-12-91 "Phase II, Site Assessment Report". Benzene contamination appears to be assessed in groundwater. No mention of Remedial Action Plan.
4-11-91	P.P.	Spoke with Sutsen, a feasibility study is being prepared. They plan to pump & treat from 1 well. Also they would like to utilize on-site water treatment plant & reinject water to oil reservoir under D.O.G. permit.
7-31-91	P.P.	Called Sub Sen. Z.M. ~~Peterson~~ Sutsen
8-1-91	P.P.	Discussion w/ Sub Sen. of SWERF. He said recent site work was completed. Report will be in SHORTLY.
8-14-91	P.P.	Review of 7-12-91 "Quarterly Monitoring Report" and 8-1-91 cover letter. Report recommends remediation of hydrocarbon impacted soil .....

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WASTE MANAGEMENT SECTION

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ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDENWEST

City: H.B. 92648

Contact Person(s): SHEILA PORMICA Phone: (805) 326-5684

W. REESE (818) 967-4255

SUBSEN (805) 326-5129

Date	Staff	ACTIVITIES/COMMENTS
		samples will be needed in the area in which the spoils are put back. This would come after vapor recovery was completed – during final verification sampling.
1-24-90	P.P.	File review. Talked to Sheila Pormica. Requested latest reports and quarterly reports. She said about 4.6 thousand yards^3 of contaminated soil to treat by venting. She said contamination is in southeast corner. She said groundwater investigation has been done. Also she is no longer chief contact for site. Her replacement is Sub Sen. She will have him contact me.
10-16-90	P.P.	Discussed site w/ Sheila. She said assessment proceeds. Pointed out that (w/ high levels of contamination found) remediation of groundwater will probably be needed based on review of 10-5-90 "Site Update".
1-15-91	P.P.	File review. ¼ly report request drafted.
2-13-91	P.P.	Review of 2-28-91 Qtr Status Report. He said he would send completed site assessment report and I agreed we should meet around that time to discuss remedial actions.

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDENWEST

City: H.B. 92648

Contact Person(s): SHEILA POIRIER Phone: (805) 326-5684

M. REESE (818) 967-4255

Date	Staff	ACTIVITIES/COMMENTS
0-16-89	P.P.	Called S. Poirier. L.M., SHEILA INDICATED THAT THEY BELIEVE THAT THEY CAN EXCAVATE AN APPITIONAL 4 FEET INTO THE CONTAMINATED SIDEWALL. They plan to do this in next couple of weeks w/ mobile lab on-site.
1-14-89	P.P.	Discussed w/ S. Poirier. She said results of other boring (near pump island) are coming in. Groundwater Tech. is handling case.
2-1-89	P.P.	Discussed case with Sheila Poirier. She said more soil contamination was found and because of proximity of a building, they will have to remediate by venting the soil. Lab results from water sampling are also on the way.
2-7-89	P.P.	On-site to witness air flow testing and do site inspection. Test was delayed by problems so just met w/ Bill Wilder & Groundwater Tech. personnel to do site inspection. SEE site inspection form.
2-8-89	P.P.	Completed site inspection report. Discussed case with Douglas Ford. Gradient (tentative) is NORTH at 0.0006.
-2-90	P.P.	Spoke with Sheila Poirier, She said spoils at corner of pit are clean. They want to backfill with these spoils. Told her that because we don't seem to have lab-analysis to verify the soil at least one boring and

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HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

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☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDENWEST

City: H.B. 92648

Contact Person(s): SHEILA DORMIER Phone: (805) 726-5684

W. REESE (818) 967-4255

Date	Staff	ACTIVITIES/COMMENTS
8-31-89	P.P.	SIGNED FINAL DRAFT OF LETTER FOR MAILING. SPOKE W/ S. DORMIER. INDICATED THAT SAFE SAMPLING PROCEDURES OF SIDEWALL MUST BE OBSERVED. WILL ALLOW ANY SAFE PROCEDURE
9-19-89	P.P.	I DISCUSSED LETTER TO S.W.E.P.I. DATED 9-1-89 W/ SHEILA. SCHEDULED SAMPLING FOR 9-22-89 at 10:30. SHE SAYS THEY WILL PULL LAST PIPE & DO PIT VERIFICATION SAMPLING ON THIS DAY.
9-22-89	P.P.	ON-SITE FOR VERIFICATION SAMPLING. TWO SAMPLES FROM GASTECH INDICATED PROBABLE CONTAMINATION - A THIRD WAS INCONCLUSIVE. SEE REPORT.
9-26-89	PP.	SPOKE WITH S. DORMIER. HAVE CONTAMINATION FROM 3 VERIFICATION SAMPLINGS. HAVE XYLENE (@ 27 PPM) IN 2 SAMPLES & 4 PPM ETHYLBENZENE IN ANOTHER. SHEILA TOLD ME THAT IT APPEARS THAT FURTHER SOIL REMOVAL IN CONTAMINATED AREA MAY BE IMPOSSIBLE DUE TO PROXIMITY OF A BUILDING, THEY WILL INVESTIGATE FURTHER. WILL GET BACK TO ME. DISCUSSED WITH STEVE. CAN RECONSIDER LIMITED EXTENT & LOW BTXE, BUT WOULD NEED TO VERIFY BY TAKING DEEPER AUGERED BORINGS (DEEPER LATERALLY - IF SAMPLED FROM INSIDE PIT.

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDENWEST

City: H.B. 92648

Contact Person(s): SHEILA DORMIER Phone: (805) 326-5684

U. REESE (818) 967-4288

Date	Staff	ACTIVITIES/COMMENTS
(CONT.)	P.P.	TO BE THERE. HE SAID HE WANTED THIS BECAUSE HE HAD HAD PROBLEMS WITH INSPECTORS NOT REQUIRING THEIR (THE INSPECTOR'S) PRESENCE ON SITE [THE CASE HE WAS REFERRING TO INVOLVED ~~VERIFICATION SAMPLING~~ SITE ASSESSMENT SAMPLING - NOT ~~SITE VERIFICATION SAMPLING ASSESSMENT~~ VERIFICATION]. ACTUALLY THE SAMPLING WHICH WAS PERFORMED WAS BORE HOLE SAMPLING WHICH WAS UNACCEPTABLE FOR VERIFICATION PURPOSES. AN INSPECTOR IS NOT REQUIRED TO BE ON SITE (BY H.C.A. GUIDELINES) FOR CHARACTERIZATION SAMPLING, BUT IS REQUIRED FOR VERIFICATION PURPOSES). BOREHOLE SAMPLES ARE THEREFORE NOT REQUIRED TO BE TAKEN IN THE PRESENCE OF AN INSPECTOR SINCE (IN CIRCUMSTANCES SUCH AS ~~THE~~ THOSE FOUND AT THIS SITE) THEY DO NOT CONSTITUTE VERIFICATION SAMPLING OF SOIL.
5-23-94	P.P.	I SPOKE WITH SHEILA DORMIER AND INFORMED HER THAT VERIFICATION SAMPLING OF THE PIT WOULD BE REQUIRED. I TOLD HER THAT APPROPRIATELY SIZED EQUIPMENT WOULD BE NEEDED FOR PROPER PIT SAMPLING.

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDEN WEST

City: HUNTINGTON BEACH 92648

Contact Person(s): SHELLY DORNIER Phone: (805) 326-5684

WILLIAM REESE (818) 967-4288

Date	Staff	ACTIVITIES/COMMENTS
5-18-89	P.P.	I TOLD THEM (SHEILA) THAT I WOULD GET BACK TO THEM MONDAY 8-21-89 WITH SOME FURTHER INFORMATION.
5-21-89	P.P.	I DISCUSSED CASE WITH STEVE HARRIS, SHEILA DORNIER AND WILLIAM REESE. THREE AREAS WERE APPRESSED AND R.P. (SHEILA) & CONSULTANT WERE NOTIFIED OF NEED TO: (1) PERFORM ADDITIONAL SITE [redacted] VERIFICATION SAMPLING WITH H.C.A. PERSONNEL ONSITE (2) FURTHER CHARACTERIZE CONTAMINATION IN PUMP ISLAND AREA (3) REMOVE PIPE IN PUMP ISLAND AREA (WITH H.C.A. PERSONNEL PRESENT) (4) DETERMINE GRADIENT AT THIS SITE (DIRECTION AND MAGNITUDE) (5) SAMPLE GROUNDWATER TO A DEGREE SUFFICIENT TO DETERMINE EXTENT OF GROUNDWATER CONTAMINATION (IF ANY). I DRAFTED LETTER CITING ABOVE (TO SHEILA
8-23-89	P.P.	I SPOKE WITH WILLIAM REESE. I NOTIFIED HIM THAT WE WOULD BE REQUIRING A GROUNDWATER INVESTIGATION. HE QUESTIONED OUR AUTHORITY TO MAKE SUCH A REQUIREMENT AND REQUESTED DOCUMENTATION OF THIS AUTHORITY. I TOLD HIM I WOULD NEED TO BE PAID FOR WORK DONE TO FURTHER ASSESS CONTAMINATION IN THE PIPING AREA (PUMP ISLAND AREA). HE SAID HE WANTED A LETTER STATING WE WOULD NOT PAY

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: SHELL WESTERN

Address: 20101 GOLDENWEST

City: HUNTINGTON BEACH 92648

Contact Person(s): SHELLY DORNIER Phone: (805) 326-5684

Date	Staff	ACTIVITIES/COMMENTS
5-10-89	P.P.	SPOKE WITH SHEILA DORNIER. SHE EXPLAINED THAT BOTH REPORTS (INCLUDING JAYKIN REPORT) TO SEE WHAT WORK HAS BEEN DONE. SHE SAID THAT THEY ARE CONFIDENT THAT THEY HAVE REMOVED CONTAMINATED SOIL. NOTE: V AT 35'. SCHEDULED SAMPLING FOR 1:00 AT 20101 GOLDENWEST ON 8/18/89.
8-18-89	P.P.	ON-SITE - MET W/ W. WILDER, W. REESE & SHEILA DORNIER. SHEILA HAD BEEN UNDER THE IMPRESSION THAT VERIFICATION SAMPLING WAS REQUIRED WHEREIN THIS AGENCY WOULD TAKE SAMPLES FOR ITS OWN PURPOSES (TO DO ITS OWN ANALYSIS). I EXPLAINED THAT I CAME TO THE SITE TO OVERSEE SAMPLING PERFORMED BY THEM (THEIR CONSULTANT). SHE (AND MR. WILDER & MR. REESE) SAID THAT THEY BELIEVED THAT THIS HAD ALREADY BEEN ACCOMPLISHED - BUT NO H.C.A. PERSON WAS ON-SITE. MR. REESE SAID THAT HE BELIEVED THAT PRIOR VERTICAL SAMPLING WAS SUFFICIENT TO CLEAR GROUNDWATER. THEY ALL SAID THAT THERE WAS A CRITICAL NEED TO FILL THE EXCAVATION. I TOLD THEM THAT FURTHER LATERAL EXTENT CHARACTERIZATION WAS NEEDED IN PUMPING & PIPE AREA

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COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: Shell Western

Address: 20101 Goldenwest

City: HB

Contact Person(s): JACK KOSZTOWNY Phone: 818 9674287

SHEILA DORMIER 805 326-5684

Date	Staff	ACTIVITIES/COMMENTS
4-11-89		discussed case w mark Sutphin tank pull info on the way
4-24-89		received + filed LR + COC for 4-4-89 Samples called Sheila Dormier — we need to be present for any sampling done for the purpose of verification. Sheila says they have excavated + hauled 956 tons of soil but they have not been able to reach the limits of Contamination. They plan to install borings for site characterization. I reviewed our concerns in characterization She will submit a work plan and will contact us 48 hrs prior to boring. Also discussed problems in skimping on number of samples analyzed.
4-25-89	L Casner	filed 4-25-89 cover letter w/ original COC + LR for 4-4-89 samples and a second copy of the 4-14-89 Coverletter

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HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: Shell Western E&P Inc.

Address: 20101 Goldenwest

City: Huntington Beach

Contact Person(s): Don Inman/Bill Wilderer (Shell) Phone: (714)969-3326 3234

Jahan - J kim engineer (213)596-2755

Bill Reese 818 967 4287

Geo? / Stoddard solvent Sheila Dormier

Date	Staff	ACTIVITIES/COMMENTS
1/8/88	JH	Spoke w/ Bill Wilderer. Plans to excavate and properly dispose of contaminated soil. They have wells on site. 1st Q. - 85!
2/14/88	ma	J-kim to do borings (6) around excavation samples to be run 8015 w/ 8020 at bottom of each sample.
4/8/88	ma	entered soil amount report. waiting for results of borings. Called Pat McDonagh - Coast Contractors - work is done - report in 3 weeks - g.w. at ±5'.
7/[illegible]/88	ma	[illegible] Bill Wilderer/Sheila Dormier of Shell. Discussed additional work needed ie - additional site assessment to North and around pump island. Contamination due to stoddard solvent. (Very minor BTXE
7/20/88	ma	met at site w Bill and Sheila Dormier of Shell. they are going to remove two additional tanks & then do additional assessments. I explained that due to depth to G.W. LUFT Manual should be used/followed when sampling. i.e. 5' interval 8020. Also collected two samples from spoil.
11/16/88	ma	Call from Bill Wilderer. Results from spoils were <10 ppm TPH. OK. to use soil as backfill or surface fill on site.
4-7-89	cc	Call from Sheila Dormier. 2 UGTs have been pulled - one a solvent tank. Mark Sutphin was on site. discussed ~~LPT~~ use of LPT providing the solvent character is similar to gasoline. (it is stoddard solvent).
4-11-89	cc	Call from Bill Reese. they want to backfill a second excavation from a gasoline tank. I told him we can't keep him from backfilling. I haven't seen L.R. Bill says Mark was on site. Discussed LUFT [illegible] were all non-detected.

REV. 10/13/87

State Water Resources Control Board
Division of Water Quality
UST Cleanup Program

Notice of Reimbursement
When State Funds are Used

Site Code 88 UT 110 Date First Reported 05/20/88

Site Name Shell Oil E & P, Inc. Substance See Below

Address 20101 Goldenwest Petroleum (X) Yes ( ) No

City/State/Zip Huntington Beach, CA 92648 Gasoline
Stoddard Solvent

The following information has been provided to:

Responsible Party Don Inman

Company Name Shell Western E & P Inc.

Address 20101 Goldenwest

City/State/Zip Huntington Beach, CA 92648

Whereas the Legislature has appropriated funds from the Californi Hazardous Substance Cleanup Fund to pay the local and state agenc administrative and oversight costs associated with the cleanup o releases from underground storage tanks; and Whereas the direct an indirect costs of overseeing removal or remedial action at the above sit are funded, in whole or in part, from the Hazardous Substance Cleanu Fund; and Whereas the above individual(s) or entity(ies) have bee identified as the party or parties responsible for investigation an cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant t Section 25360 of the Health and Safety Code, the above Responsible Part or Parties shall reimburse the State Water Resources Control Board fo all direct and indirect costs incurred by any and all state and loca agencies while overseeing the cleanup of the above underground storag tank site, and the above Responsible Party or Parties shall make ful payment of such costs within 30 days of receipt of a detailed invoic from the State Water Resources Control Board.

Contract Project Director:

[redacted] (714) 834-8174 Date 08/19/88

Signature Telephone Number

STANDARD FORM UST01(3/88

COUNTY OF ORANGE
HEALTH CARE AGENCY

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH
ROBERT E MERRYMAN, R. S., MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH
1725 W. 17TH STREET
SANTA ANA, CALIFORNIA 92706
(714) 834-8356

August 19, 1988

CERTIFIED
RETURN RECEIPT
REQUESTED

Re: 88 UT 110

TO: Businesses/Persons Responsible For Releases Of Hazardous Substances From Underground Storage Tanks

FROM: County of Orange Health Care Agency/Environmental Health Underground Storage Tank Cleanup Program

SUBJECT: Reimbursement For Costs Incurred In Administering The Underground Storage Tank Cleanup Program

The purpose of this letter is to inform responsible parties that the Orange County Health Care Agency has entered into an agreement with the State of California to oversee the cleanup of contaminated sites resulting from the unauthorized release of hazardous substances from underground storage tanks. The cleanup of these sites is necessary to protect the public and environment from unnecessary exposure to hazardous chemicals.

The cleanup program developed by Orange County is funded by State and Federal monies and is subject to the reimbursement requirements associated with the use of these funds. In order to comply with the reimbursement requirement, terials expended by County te specific amounts detail- ll be provided to the party for all direct he site.

ce of Reimbursement. sement requirements for ontained in the Notice uestions regarding the rground Storage Tank

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.
1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Shell Western E & P Inc.
Attn: Don Inman
20101 Goldenwest
Huntington Beach, CA 92648

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P 999 546 212

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
8/22/88

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, July 1983 447-845 DOMESTIC RETURN RECEIPT

6/2/88

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY
UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT

CONTRACTOR NO 30000 | SOURCE OF FUNDS (S/F) S | SUBSTANCE 8006619 8052413

SITE NO: 88UT110 | FEDERAL EXEMPT (Y/N) N | PETROLEUM (Y/N)

SITE NAME: Shell Western E&P Inc. | DATE REPORTED 5/20/88

ADDRESS: 20101 Goldenwest | DATE CONFIRMED 5/20/88

CITY/ZIP Huntington Beach Ca. 92648 | CATEGORY (R/S) R

SITE STATUS

CASE TYPE (U/S/G/D) S & S		CONTRACT STATUS 3	EMERGENCY RESPONSE
RP SEARCH S	(S/I/N/R/)	DATE UNDERWAY 5/20/88	DATE COMPLETED 6/2/88
PRELIMINARY ASSESSMENT	(U/C/) U	DATE UNDERWAY 6/2/88	DATE COMPLETED
REMEDIAL INVESTIGATION	(U/C/)	DATE UNDERWAY	DATE COMPLETED
REMEDIAL ACTION	(U/C/)	DATE UNDERWAY	DATE COMPLETED
POST REMEDIAL ACTION MONITORING	(Y/N/U/C/)	DATE UNDERWAY	DATE COMPLETED
ENFORCEMENT ACTION TAKEN	(Y/N/)	TYPE (1/2/3/4/5/6)	DATE TAKEN
RAP REQUIRED	(U/C/)		DATE APPROVED
CASE CLOSED	(Y/R/H/)		DATE CLOSED

DATE EXCAVATION STARTED | REMEDIAL ACTIONS TAKEN

RESPONSIBLE PARTY

CONTACT NAME Don Inman

COMPANY NAME Shell Western E&P Inc.

ADDRESS 20101 Goldenwest

CITY/STATE Huntington Beach, Ca 92648

:ljs

9/15 10/15/88

6/2/88

COUNTY OF ORANGE/HEALTH CARE AGENC
ENVIRONMENTAL HEALTH (714) 834-8175
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
SITE MITIGATION/CLEANUP
REPORTING FORM

CASE ID: 88UT110
ACCOUNT NO.:
DATE RECEIVED: 5/20/88

DBA: Shell Western E&P Inc.
ADDRESS: 20101 Goldenwest

CITY: [9] Huntington Beach ZIP: 92648
ESPONSIBLE PARTY: Shell Western E&P Inc. Don Inman PHONE: (714) 969-3326
CHEM ID: [DOT 1203/DOT1993-SKV Gasoline/Stoddard Solvent
VOLUME: _____ UNITS: [ ]

OW DISCOVERED: [6] Tank removal
[ ] OTHER (SPECIFY)

LEAK TYPE: [1] tank leak
[ ] OTHER (SPECIFY)

CAUSES: [3] corrosion
[ ] OTHER (SPECIFY)

AFFECTED RESOURCES: [3] soil
[ ] OTHER (SPECIFY)

REMEDIATION TECHNOLOGY (WATER): [~~46~~ 97] None @ N/A to date
REMEDIATION TECHNOLOGY (SOIL): [96] None to date
MOUNT OF WASTES/CONTAMINATED SOIL REMOVED: _____ TONS
OW DISPOSED: [ ]
MPLETED BY: S. Harris
R

COUNTY OF ORANGE
HCA/ENVIRONMENTAL HEALTH
PROPOSITION 65
NOTIFICATION REPORT
(714) 834-7172

PROP. 65 ID# _____

DART CASE ID# 88UT110

TIME SPENT TO COMPLETE FORM 30 min

DATE REPORTED: 6/16/88 TIME: 08^00 DESIGNATED EMPLOYEE REPORTING: Scott Wald

REPORT SUBMITTED ON BEHALF OF ALL DESIGNATED EMPLOYEES OF WHAT AGENCY: HCA

DATE OF INCIDENT: 5-20-88 TIME: 14^00 SOURCE OF INFORMATION: _____

INCIDENT LOCATION: Shell Oil E&P (DBA) 20101 Golden West (ADDRESS) Huntington Beach (CITY)

92648 (ZIP) (213) 969-3326 (SITE TELEPHONE) Don Inman (CO. CONTACT PERSON)

DESCRIPTION/CAUSE OF INCIDENT: UST Removal, No odorous vapors were noticed at time of incident. Upon ~~receipt~~ receiving the lab report the site needs to be Cleaned and possible groundwater Contamination

RESPONSIBLE PARTY - NAME: Shell Oil TELEPHONE: (714) 969-3326

IDENTIFICATION OF DISCHARGED WASTE:

CHEMICAL NAME/COMMON NAME	PHYSICAL STATE	VOLUME	HAZARDOUS PROPERTIES/LEGAL LIMITS
Solvent	Solid/Soil	Unk	Toxic
Gas	Solid/Soil	Unk	Toxic

FIELD DATA/LAB RESULTS (INDICATE SOIL, GROUNDWATER, ETC.): Soil results indicate that this site is Contaminated

ENVIRONMENT AFFECTED: ROADWAY GROUNDWATER SEWER OR STORM DRAIN LAKE/STREAM/RIVER BAY/OCEAN AIR (SOIL) FLOOD CHANNEL GROUND (PAVED)

LOCALE: RESIDENTIAL COMMERCIAL OPEN AREA PUBLIC PROPERTY (PRIVATE PROPERTY) RURAL

DESCRIPTION OF EXTENT OF CONTAMINATION (LATERAL AND VERTICAL) Unknown at this Time

NUMBER OF PERSONS REPORTEDLY INJURED: 0 NUMBER OF PERSONS RECEIVING MEDICAL TREATMENT: 0

WHERE?:

AGENCIES INVOLVED: Fire department, Scott Freeman

INCIDENT MITIGATED: YES (NO) DOES FURTHER ACTION NEED TO BE TAKEN: (YES) NO

ACTION: Site Mitigation

REFERRED TO: - NAME/AGENCY: DATE: TIME:

CLEANUP CONDUCTED BY: Steve Harris LEGAL INVESTIGATION: YES (NO)

AREA PHYSICALLY ACCESSIBLE TO THE PUBLIC: YES (NO)

PROXIMITY TO THE PUBLIC (HOMES, SCHOOLS, ETC.):

FACTORS THAT ARE LIKELY TO CAUSE SUBSTANTIAL INJURY TO THE PUBLIC HEALTH OR SAFETY: Contamination of groundwater

ADDITIONAL COMMENTS:

Any designated government employee who obtains information in the course of his official duties, revealing the illegal discharge or threatened illegal discharge of a hazardous waste, that is likely to cause substantial injury to the public health and safety, must report such information within 72 hours to the Board of Supervisors and Health Officer or face up to $25,000 in fines and/or up to three years in jail (pursuant to Section 25180.7 of the Health and Safety Code). The information submitted in this report is based upon the best available information at the time the report was completed.

REPORT COMPLETED BY: Scott Wold DATE: 6-1-87 TIME: 0900

REPORT REVIEWED BY: DATE: TIME:

CONTACT FOR FURTHER INFORMATION: TELEPHONE NO. ( )

2/17/87mr

UST CLEANUP PROGRAM
SITE SPECIFIC REPORT SITE NO.: 88UT110

CONTRACTOR NO.: 30000 SOURCE OF FUNDS: F SUBSTANCE: 8006619 GASOLINE
SITE NAME: SHELL WESTERN E&P INC DATE REPORTED : 05/20/88
ADDRESS : 20101 GOLDEN WEST ST MULTIPLE RPS: (Y/N) N
CITY: 9 HUNTINGTON BEACH ZIP: 92648

SITE STATUS

CASE TYPE (U/S/G/D) G	CONTRACT STATUS: 7	EMERGENCY RESPONSE:	
RP SEARCH (S/I/N/R/) S	DATE UNDERWAY: 05/20/88	DATE COMPLETED: 06/02/88	
PRELIMINARY ASSESSMENT (U/C/) C	DATE UNDERWAY: 06/02/88	DATE COMPLETED: 12/07/89	
REMEDIAL INVESTIGATION (U/C/) C	DATE UNDERWAY: 12/07/89	DATE COMPLETED: 04/09/91	
REMEDIAL ACTION (U/C/I) C	DATE UNDERWAY: 05/20/88	DATE COMPLETED: 09/10/95	
POST REMEDIAL ACTION MONITORING (Y/N/U/C/) C	DATE UNDERWAY: 04/09/91	DATE COMPLETED: 12/03/96	
ENFORCEMENT ACTION TAKEN: (Y/N) N	TYPE (1/2/3/4/5/6)	DATE TAKEN :	
REMEDIAL ACTIONS TAKEN: ED		PRIORITY: 3A	
CASE CLOSED (Y/R/H/) Y		DATE CLOSED : 03/13/97	

AFFECTED RESOURCES : 3 SOIL (VADOSE ZONE)
REMEDIATION TECHNOLOGY (WATER): 10 LONG TERM MONITORING
REMEDIATION TECHNOLOGY (SOIL) : 3 SOIL VENTING
HOW DISPOSED: 3 LANDFILL, CLASS I - CASMALIA AMOUNT 956.00 TONS

RESPONSIBLE PARTIES

COMPANY NAME : SHELL WESTERN E&P INC
CONTACT NAME : SUB SEN
ADDRESS : 20101 GOLDENWEST
CITY/STATE/ZIP: HUNTINGTON BEACH, CA 92648
PHONE NO. : 805-326-5684
COMPANY NAME :
CONTACT NAME :
ADDRESS :
CITY/STATE/ZIP: ,
PHONE NO. : - -
COMPANY NAME :
CONTACT NAME :
ADDRESS :
CITY/STATE/ZIP: ,
PHONE NO. : - -
COMPANY NAME :
CONTACT NAME :
ADDRESS :
CITY/STATE/ZIP: ,
PHONE NO. : - -

COMMENTS: REQUESTS THEIR BILLINGS BE SENT TO:
CONTACT NAME :
COMPANY NAME :
ADDRESS :
CITY/STATE/ZIP :,

INSPECTOR NO. : 200 UPDATE 03/13/97 06/30/94 01/14/93 04/23/92 05/20/88

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

March 13, 1997

Sub Sen
Cal Resources
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164

Subject: **Remedial Action Completion Certification**

Re: Underground Storage Tank (UST) Case

Cal Resources
20101 Goldenwest Street
Huntington Beach, CA
O.C.H.C.A. Case #88UT110

Dear Mr. Sen:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary regarding the above-referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this Agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please telephone Peter Peuron at (714) 667-3719 if you have any questions regarding this matter.

Sincerely,

Karen L. Hodel

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Mitigation Section
Environmental Health Division

KLH:pp

Attachment

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Mike Harper, State Water Resources Control Board
Larry Honeybourne, Environmental Health Division
Dave Deaner, State Water Resources Control Board

Case Closure Summary

Leaking Underground Fuel Tank Program

I. Agency Information

Date: **January 3, 1997**

Agency Name: **Orange County Health Care Agency**	Address: **2009 East Edinger Avenue**
City/State/Zip: **Santa Ana, CA 92705**	Phone: **(714) 667-3700**
Responsible staff person: **Peter Peuron**	Title: **Hazardous Waste Specialist**

II. Case Information

Site Facility Name: **Cal Resources**		
Site Facility Address: **20101 Golden West Street, Huntington Beach, CA 92648**		
RB LUSTIS Case No.: **083000890T**	Local Case No.:	LOP Case No.: **88UT110**
URF Filing Date: **August 7, 1989**	SWEEPS No.	
Responsible Party	Address	Phone Number
Sub Sen	**Cal Resources**	**(805) 326-5000**
	5060 California Avenue, P.O. Box 11164	
	Bakersfield, CA 93389-1164	

Tank No	Size in Gal.	Contents	Closed in-Place/Removed?	Date
1	**7,000**	**gasoline**	**removed**	**May 20, 1988**
2,3	**5,000 & 2,000**	**stoddard solvent**	**removed**	**May 20, 1988**
4	**10,000**	**gasoline**	**removed**	**April 4, 1889**
5	**10,000**	**stoddard solvent**	**removed**	**April 4, 1989**

III. Release and Site Characterization Information

Cause and type of release: **unknown**		
Site characterization complete? **yes**	Date approved by oversight agency: **April 9, 1991**	
Monitoring wells installed? **yes**	Number: **7**	Proper screened interval? **yes**
Highest GW depth BGS: **33.76 feet**	Lowest depth: **34.45 feet**	Flow direction: **west**
Most sensitive current use: **NA**		
Are drinking water wells affected? **no**	Aquifer name: **NA**	
Is surface water affected? **no**	Nearest/affected SW name: **NA**	
Off-site beneficial use impacts (addresses/locations): **none**		
Report(s) on file? **yes**	Where is report(s) filed? **Orange County Health Care Agency**	

Treatment and Disposal of Affected Material

Material	Amount (include Units)	Action (treatment or disposal/destination)	Date
Tank	**3**	**AMR, Ontario, California**	**May 20, 1988**
Tank	**2**	**AMR, Ontario, California**	**April 4, 1989**
Soil	**956 tons**	**disposal, Casmalia Landfill, CA**	**April 13, 1989**
Groundwater			
Barrels			

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file. Revised: 4/14/94

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

Case#: **88UT110**
Date: **January 3, 1997**

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (gas)	**20,700**	**3,700**	**53**	**0.180**	MTBE			**NA**	**ND**
Benzene	**22.5**	**11**	**3.8**	**ND**					
Toluene	**90.6**	**240**	**13**	**0.0022**					
Xylene	**399**	**970**	**29**	**0.0038**					
Ethylbenzene	**177**	**180**	**4.7**	**0.00094**					

Comments (Depth of Remediation, etc.): **Soon after tanks were removed, extensive excavation of soil was performed. Soil was removed to a depth of about 35 feet below ground surface, where groundwater was encountered. A total of 956 tons of contaminated soil was disposed at Casmalia Resources. The "after" soil contamination levels shown above are concentrations left in place after soil excavation was performed. Due to the proximity of contaminated soil to the water table, a groundwater investigation was required and wells were installed. Significant groundwater contamination levels were found. Remaining soil and groundwater contamination was addressed using vapor extraction. The vapor extraction system operated from May of 1993 to September of 1995. During this time about 22,300 pounds of Total Petroleum Hydrocarbons were removed. Post-remedial monitoring demonstrated a steady decline in groundwater contaminant concentrations. All groundwater contaminant concentrations are below the MCLs. Also, the site is located seaward of the Newport-Inglewood Fault Zone. Therefore (since the site has been adequately characterized and no free product is present) the site can be classified as "low risk". Remaining contamination at this site presents no threat to drinking water, human health or the environment.**

IV. Closure

Does completed corrective action protect *existing* beneficial uses per the Regional Board Basin Plan? **yes**		
Does completed corrective action protect *potential* beneficial uses per the Regional Board Basin Plan? **yes**		
Does corrective action protect public health for current land use? **yes**		
Site management requirements: **none**		
Should corrective action be reviewed if land use changes? **no**		
Monitoring wells decommissioned: **no**	Number decommissioned:	Number Retained: **7**
List enforcement actions taken: **none**		
List enforcement actions rescinded: **NA**		

V. Local Agency Representative Data

Name: **Peter Peuron**	Title: **Hazardous Waste Specialist**	
Signature: Peter Peuron for Dorothy 1-3-97 for Kenneth L. Hoeke 1/10/97		Date: 1-3-97

VI. RWQCB Notification

Date Submitted to RB: FEBRUARY 13, 1997	RB Response:	
RWQCB Staff Name: CARL BERNHARDT	Title: ASSOCIATE ENGINEERING GEOLOGIST	Date: 3-11-97

Case Closur

Leaking Underground

Post-it™ Fax Note 7671	Date 3/10	# of pages ▶ 2
To Peter Peuron	From Carl Bernhardt	
Co./Dept OCHCA	Co. CRWQCB	
Phone #	Phone # 909 782-4495	
Fax # 714-972-0749	Fax # 909-781-6288	

I. Agency Information

Agency Name: **Orange County Health Care Agency**
City/State/Zip: **Santa Ana, CA 92705**
Responsible staff person: **Peter Peuron**

II. Case Information

Site Facility Name: **Cal Resources**			
Site Facility Address: **20101 Golden West Street, Huntington Beach, CA 92648**			
RB LUSTIS Case No.: **0830008907**	Local Case No.:	LOP Case No.: **88UT110**	
URF Filing Date: **August 7, 1989**	SWEEPS No.		
Responsible Party	Address		Phone Number
Sub Sen	**Cal Resources**		**(805) 326-5000**
	5060 California Avenue, P.O. Box 11164		
	Bakersfield, CA 93389-1164		

Tank No	Size in Gal.	Contents	Closed in-Place/Removed?	Date
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Are drinking water wells affected? **no**	Aquifer name: **NA**	
Is surface water affected? **no**	Nearest/affected SW name: **NA**	
Off-site beneficial use impacts (addresses/locations): **none**		
Report(s) on file? **yes**	Where is report(s) filed? **Orange County Health Care Agency**	

Treatment and Disposal of Affected Material

Material	Amount (Include Units)	Action (treatment or disposal/destination)	Date
Tank	**3**	**AMR, Ontario, California**	**May 20, 1988**
Tank	**2**	**AMR, Ontario, California**	**April 4, 1989**
Soil	**950 tons**	**disposal, Casmalia Landfill, CA**	**April 13, 1989**
Groundwater			
Barrels			

Case Closure Summary

Leaking Underground Fuel Storage Tank Program

Case#: 88UT110

Date: January 3, 1997

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (gas)	20,700	3,700	53	0.180	MTBE			NA	ND
Benzene	22.5	11	3.8	ND					
Toluene	90.8	240	13	0.0022					
Xylene	399	970	29	0.0038					
Ethylbenzene	177	180	4.7	0.00094					

Comments (Depth of Remediation, etc.): **Soon after tanks were removed, extensive excavation of soil was performed. Soil was removed to a depth of about 35 feet below ground surface, where groundwater was encountered. A total of 956 tons of contaminated soil was disposed at Casmalia Resources. The "after" soil contamination levels shown above are concentrations left in place after soil excavation was performed. Due to the proximity of contaminated soil to the water table, a groundwater investigation was required and wells were installed. Significant groundwater contamination levels were found. Remaining soil and groundwater contamination was addressed using vapor extraction. The vapor extraction system operated from May of 1993 to September of 1995. During this time about 22,300 pounds of Total Petroleum Hydrocarbons were removed. Post-remedial monitoring demonstrated a steady decline in groundwater contaminant concentrations. All groundwater contaminant concentrations are below the MCLs. Also, the site is located seaward of the Newport-Inglewood Fault Zone. Therefore (since the site has been adequately characterized and no free product is present) the site can be classified as "low risk". Remaining contamination at this site presents no threat to drinking water, human health or the environment.**

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Monitoring wells decommissioned: **no**	Number decommissioned:	Number Retained: **7**
List enforcement actions taken: **none**		
List enforcement actions rescinded: **NA**		

V. Local Agency Representative Data

Name: **Peter Peuron**	Title: **Hazardous Waste Specialist**	
Signature: Peter Peuron 1-3-97 1/10/97		Date: 1-3-97

VI. RWQCB Notification

Date Submitted to RB:	RB Response: CONCUR	
RWQCB Staff Name: Cal Benthall	Title: Assoc. Eng. Geologist	Date: 3/10/97

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

October 29, 1996

Sub Sen
Cal Resources
5060 California Avenue, P.O. Box 11164
Bakersfield, CA 93389-1164

Subject: Closure Requirements

Re: Cal Resources LLC
20101 Goldenwest Street
Huntington Beach, CA
OCHCA Case # 88UT110

Dear Mr. Sen:

The most recent groundwater data available for the subject site suggest that vapor extraction has succesfully mitigated the source of gasoline contamination in groundwater. The data tends to strongly support your request for closure. However, it is important to note that this data was obtained prior to concerns being raised on a statewide and nationwide basis about the presence of methyl tertiary butyl ether (MTBE) in gasoline contaminants. This Agency currently requires that all gasoline contaminant plumes be investigated for the presence of MTBE. Therefore, it is necessary to perform an additional round of groundwater sampling which includes analysis for this compound. Please observe the following requirements:

1. Wells GTW-2, GTW-3, GTW-5 and GTW-6 should be sampled and analyzed for MTBE, for aromatics (by EPA 8020) and for Total Petroleum Hydrocarbons (by the DTSC approved method for gasoline).

2. Please conduct water sampling within 30 days of receipt of this letter. Upon receipt of analytical results this Agency will again review the site for closure.

If you have any questions, please call me at (714) 667-3719.

Very truly yours,

Peter Peuron

Peter Peuron
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

PP:vp

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Bob Ruscitto, Flour Daniel GTI, Inc.

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

November 27, 1995

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 871 733 020

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT & SITE CLOSURE REQUEST
OCHA CASE NO. 88UT110, 20101 GOLDEN WEST STREET
HUNTINGTON BEACH, ORANGE COUNTY, CA

Please find attached the 1995 Third Quarter Groundwater Monitoring Report for the former underground tank site at CalResources LLC's Huntington Beach oilfield facility (OCHA Case No. 88UT110) prepared by Groundwater Technology Inc.

Remedial actions have been carried out to the practical limits of technology. The dissolved hydrocarbon plume has been contained and is stabilized, apparently by ongoing biological degradation as indicated by depressed dissolved oxygen readings. All dissolved aromatics are below MCL's for drinking water; in addition, groundwater at the site is clearly marine intruded and not potential drinking water. The influent vapor stream from the vapor extraction system contains no detectable non-methane hydrocarbons. We therefore, request closure of this site and cessation of remedial actions.

If you have any questions regarding this site, please contact me at (805) 326-5129.

Sincerely,

S. Sen
Staff Environmental Engineer
Health Safety & Environment - Environmental

SS/mrj

Attachment

MJ533103.DOC

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

August 8, 1995

CERTIFIED MAIL #P 131 025 681
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
CalResources LLC
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1995 Second Quarter Groundwater Monitoring report for the former underground tank site at CalResources LLC's Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Groundwater plume hydrocarbon concentrations have been reduced by 99%. Containment and source removal strategies for the groundwater appear to be working. While vapor extraction was suspended in this reporting quarter due to equipment problems, operations have now resumed.

If you have any questions, please contact me at (805) 326-5129.

Sincerely,

S. Sen
Staff Environmental Engineer
HS&E - Environmental

SS:gem

Attachment

GM503801.WPD

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

May 9, 1995

CERTIFIED MAIL #P 871 732 999
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
CalResources LLC
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1995 First Quarter Groundwater Monitoring report for the former underground tank site at CalResources LLC's Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Groundwater plume hydrocarbon concentrations have dropped substantially. Containment and source removal strategies for the groundwater appear to be working.

If you have any questions, please contact me at (805) 326-5129.

Sincerely,

S. Sen
Staff Environmental Engineer
HS&E - Environmental

SS:gem

Attachment

GM503801.WPD

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

February 7, 1995

CERTIFIED MAIL #P 871 732 992
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
CalResources LLC
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1994 Fourth Quarter Groundwater Monitoring report for the former underground tank site at CalResources LLC's Huntington Beach oilfield facility *(OCHA Case Number 88UT110), prepared by Groundwater Technology Inc.* Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working.

Please note that as of January 1, 1995, Shell Oil Company's California Exploration and Production assets have been transferred to a new entity named CalResources LLC. CalResources will be a separate company owned by Subsidiaries of Shell Exploration and Production Company. This should have no impact on our ongoing remediations at Huntington Beach.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Sincerely,



S. Sen
Staff Environmental Engineer
Remediations & Waste - HS&E

SS:gem

Attachment

COUNTY OF ORANGE

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

December 28, 1994

Sub Sen
Shell Western E & P Inc.
P.O. Box 11164
Bakersfield, CA 93389-1164

Subject: **Quarterly Reporting Requirements for Unauthorized Release from an Underground Storage Tank**

Re: Shell Western E & P Inc.
20101 Golden West Street
Huntington Beach, CA
O.C.H.C.A. Case #88UT110

Dear Mr. Sen:

Please be advised that this Agency, which is authorized to enforce the State Underground Storage Tank Laws and Regulations, has not received a current progress report regarding the investigation and remedial activities completed to date at the subject location.

The California Code of Regulations, Title 23, Subchapter 16, Section 2652 requires the owner or operator to submit reports to the local agency every three (3) months until the cleanup is complete. A current review of our files indicated that an update report is required which covers the following information:

1. A description of the corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature, and extent of soil, groundwater or surface water contamination due to the release;
2. The method(s) of cleanup implemented to date, proposed cleanup actions, and a time schedule for implementing the proposed actions; and
3. The method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water. Copies of any completed hazardous waste manifests for off-site transport of these media shall be attached to the report.

Please submit to this office a summary update report of the investigative and remedial activities indicated above that have occurred at the referenced location since these activities were last reported. Include also the results of these activities, where results are available. This report must be submitted within thirty (30) days of the receipt of this letter.

If you have any questions, please call me at (714) 667-3719.

Very truly yours,

Peter Peuron

Peter Peuron
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

PP:vp

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

January 5, 1995

CERTIFIED MAIL #P 871 733 025
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
CalResources LLC
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

In response to your letter of December 28, 1994, please find attached the 1994 Third Quarter Groundwater Monitoring report for the former underground tank site at Shell Western E&P Inc.s Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. I apologize for the delay in transmittal of this report. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working. *However, removal of soil vapor phase hydrocarbons has not occurred* at the anticipated pace; we believe soil vapor extraction will continue until the end of 1996.

GM331505.WPD

Please note that as of January 1, 1995, Shell Oil Company's California Exploration and Production assets have been transferred to a new entity named CalResources LLC. CalResources LLC will be a separate company owned by subsidiaries of Shell Exploration and Production Company. If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Very truly yours,



S. Sen
Staff Environmental Engineer
Remediations & Waste - HS&E

SS:gem

Attachment

GM331505.WPD

Shell Western E&P Inc.
An affiliate of Shell Oil Company

PO Box 11164
Bakersfield CA 93389-1164

August 18, 1994

CERTIFIED MAIL #P 131 025 818
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC. (SWEPI)
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNT

Please find attached the 1994 Second Quarter Groundwater Monitoring report for the former underground tank site at Shell Western E&P Inc.s Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working. While activities were suspended in the past quarter, vapor extraction was resumed on June 2, 1994.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Very truly yours,

S. Sen
Staff Environmental Engineer
Remediations & Waste - HS&E
California Division

SS:gem

Attachment

Shell Western E&P Inc.
An affiliate of Shell Oil Company

PO Box 11164
Bakersfield CA 93389-1164

May 18, 1994

CERTIFIED MAIL #P 131 025 811
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County
2009 East Edinger
P. O. Box 355
Santa Ana, CA 92702

Dear Mr. Peuron:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC. (SWEPI)
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNT

Please find attached the 1994 First Quarter Groundwater Monitoring report for the former underground tank site at Shell Western E&P Inc.s *Huntington Beach oilfield facility (OCHA Case Number 88UT110)*, prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working. While activities were suspended in the past quarter, vapor extraction will resume on May 24, 1994.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Very truly yours,

S. Sen
Staff Environmental Engineer
Remediations & Waste - HS&E
California Division

SS:gem

Attachment

GM331505.WPD

Shell Western E&P Inc.
An affiliate of Shell Oil Company

PO Box 11164
Bakersfield CA 93389-1164

February 15, 1994

CERTIFIED MAIL #P 131 025 839
RETURN RECEIPT REQUESTED

Mr. Luis Lodrigueza
Hazardous Materials Management Section
Environmental Health Division
Orange County
2009 East Edinger
P. O. Box 355
Santa Ana, CA 92702

Peter Pearson

Dear Mr. Lodrigueza:

SUBJECT: QUARTERLY MONITORING REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC. (SWEPI)
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNT

~~4-IC-10~~ (~~Huntington Beach Plant~~)

Please find attached the 1993 Fourth Quarter Groundwater Monitoring report for the former underground tank site at Shell Western E&P Inc.s Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Very truly yours,

S. Sen
Staff Environmental Engineer
Remediations & Waste - HS&E
California Division

SS:gem

Attachment

GM331505.WPD

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

August 13, 1993

CERTIFIED MAIL #P 131 025 590
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County
Health Care Agency
2009 East Edinger
P. O. Box 355
Santa Ana, CA 92702

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1993 Second Quarter groundwater monitoring report for the former underground tank site at Shell Western E&P Inc.'s (SWEPI) Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working.

Attached is a summary of the various remediation projects at our Huntington Beach Facility involving your agency. We hope the summary will serve as a reference in our further discussions.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Very truly yours,



M. R. Steube
Technical Manager
Remediation & Waste
Health, Safety & Environment
California Division

SS:pj

Attachment

SHELL WESTERN E&P INC.
HUNTINGTON BEACH PRODUCTION UNIT
20101 GOLDEN WEST STREET
HUNTINGTON BEACH, CA 92648

LIST OF REMEDIATION PROJECTS
WITH ORANGE COUNTY HEALTH CARE AGENCY INVOLVEMENT

PROJECT DESCRIPTION	STATUS	LEAD AGENCY
UST leak in facility strip area. very small gasoline or Stoddard solvent plume.	Vapor extraction continues. Plume contained and concentrations dropping.	OCHCA
Mesa area condensate leak along gas line. Vapor extraction and thermal oxidizer, followed by carbon adsorption.	Vapor extraction complete. Some capillary fringe hydrocarbons & low ppm dissolved HC left - no benzene. Preparing closure/verification plan.	OCHCA
Bolsa wetland oil sump abanonment projects. 4 sets of sumps - 2 closed, one deferred till gas plant abandonment next year, and one (3-ROW pit) waiting on water sampling and soil recycling plan.	Preparing soil recycling plan. Will either incorporate into asphalt roads onsite or do the same thing as the Solid Waste Facility.	OCHCA
Solid Waste Facility in Bolsa wetlands - NPDES permitted, requires removal of 750000 cubic yards of wastes contain-degraded crude oil from tank bottoms.	Authorization to recycle wastes in roads received from RWQCB-Santa Ana. OCHCA consulted for health issues. Work plan being developed.	RWQCB-Santa Ana
Gas plant hillside seep light hydrocarbons in soil and water, pilot vapor extraction and groundwater extraction complete.	OCHCA transferred lead to RWQCB; work plan for plume containment & interim soil vapor extraction pending abandonment of gas plant submitted to RWQCB & OCHCA.	RWQCB
Fort Apache drillsite in a townlot near downtown Huntington Beach has crude oil in contact with groundwater. Very small (10 ft.) plume.	Working with Chevron to determine responsibility and with RWQCB to approve remedial action plan to auger out material.	RWQCB

GROUNDWATER TECHNOLOGY

Groundwater Technology, Inc.
20000/200 Mariner Avenue, Torrance, CA 90503-1670
Tel: (310) 371-1394 Fax: (310) 371-4782

December 10, 1992

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency-County of Orange
2009 East Edinger Avenue
Santa Ana, California 92705

Re: Request for a Change in the
Monitoring and Sampling Program
OCHCA Case #88UT110
Shell Western Exploration and Production, Inc.
Huntington Beach Facility, Gas Pump Area
Huntington Beach, California

Dear Mr. Peuron:

This is a request to change the groundwater monitoring and sampling program for the Shell Western Exploration and Production, Inc. (SWEPI) Gas Pump Area site (Figure 1), as outlined in Groundwater Technology, Inc.'s "Remedial Work Plan", dated October 15, 1991. According to this work plan, groundwater samples would be collected monthly from monitoring well GTW-5, and from all groundwater monitoring wells on a quarterly basis. Groundwater monitoring wells GTW-1 through GTW-7 have been sampled quarterly, and well GTW-5 (Figure 2) has been sampled monthly since November, 1991. Groundwater Technology requests that the Orange County Health Care Agency (OCHCA) allow a change in the sampling and monitoring program from monthly to quarterly.

Based on the sampling results, Groundwater Technology believes that the dissolved-phase hydrocarbons are localized in the vicinity of well GTW-5, located inside the former maintenance building. Dissolved-phase hydrocarbon concentrations have decreased in well GTW-5, (refer to the Groundwater Technology reports entitled "Quarterly Monitoring Report", dated January 28, May 6, July 17, and October 27, 1992). Groundwater Technology believes that quarterly groundwater gauging and sampling will be sufficient to monitor groundwater quality beneath the site. Continued operation of the soil vapor treatment system is expected to further decrease dissolved hydrocarbon concentrations by continued source removal. The change in sampling frequency should not affect remediation or groundwater quality.

SNBLOCHCA.D09
SWEPI North Bolsa

If you have any questions regarding this request, please contact John Hundley at (310) 371-1394.

Sincerely,

GROUNDWATER TECHNOLOGY, INC.

John P. Hundley
Project Manager

Michael Blundell
Registered Geologist
No. 5146

REGISTERED GEOLOGIST
MICHAEL C. BLUNDELL
No. 5146
STATE OF CALIFORNIA

c.c. Mr. Mark Adelson, California Regional Water Quality Control Board, Santa Ana Region
Mr. Sub Sen, SWEPI
Mr. Scott Blanchard, SWEPI

FIGURE 1

N

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California
Job No. 216-325-1801-00



SITE LOCATION

Source: U.S.G.S. Seal Beach, Calif. 1965
Photorevised 1981

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE
GROUNDWATER TECHNOLOGY, INC.

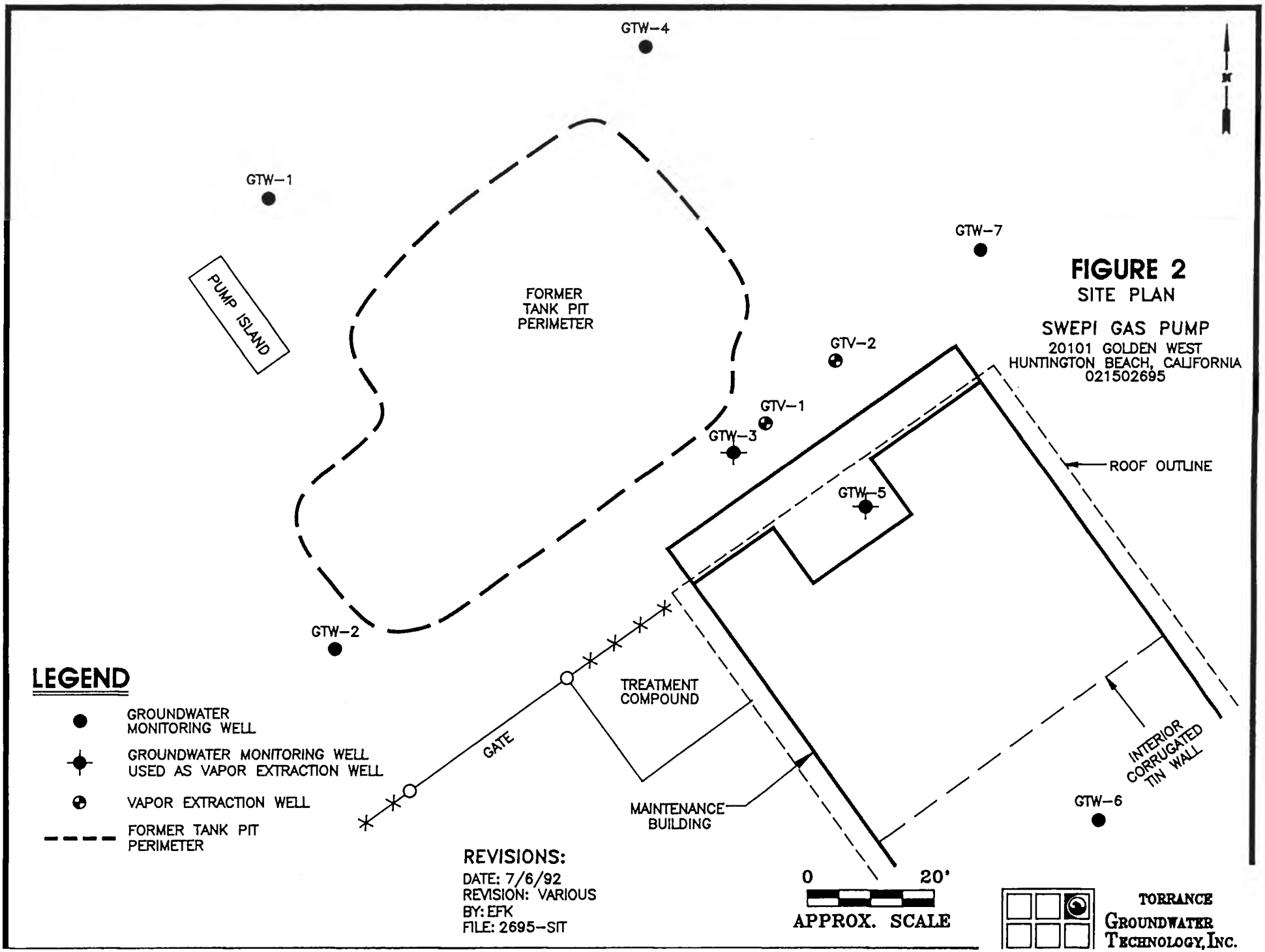


FIGURE 2
SITE PLAN

SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
021502695

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

November 6, 1992

P 087 480 106

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County
Health Care Agency
2009 East Edinger
P. O. Box 355
Santa Ana, CA 92702

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1992 Third Quarter groundwater monitoring report for the former underground tank site at Shell Western E&P Inc.'s (SWEPI) Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Sincerely,

Derek Eck

D. E. Eck
Acting Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Attachment

CBBY9214201 - 0001.0.0

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

August 24, 1992

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Orange County
Health Care Agency
2009 East Edinger
P. O. Box 355
Santa Ana, CA 92702

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1992 Second Quarter groundwater monitoring report for the former underground tank site at Shell Western E&P Inc.'s (SWEPI) Huntington Beach oilfield facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, groundwater plume hydrocarbon concentrations continue to drop. Containment and source removal strategies for the groundwater appear to be working.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Sincerely,

D. E. Eck
Acting Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Attachment

CBBY9214201 - 0001.0.0

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

February 12, 1992

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency - County of Orange
2009 East Edinger Avenue
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT
OCHA CASE NUMBER 88UT110
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1991 Fourth Quarter groundwater monitoring report for the former underground tank site at the Shell Western E&P Inc. (SWEPI) Huntington Beach oil field facility (OCHA Case Number 88UT110), prepared by Groundwater Technology Inc. Remedial operations commenced on December 2, 1991. Concurrent with soil vapor extraction, there has been a sharp drop in the groundwater plume hydrocarbon concentrations. Containment and source removal strategies for the groundwater appear to be working.

If you have any questions, please contact Mr. Sub Sen of our staff at (805) 326-5129.

Sincerely,

J. A. Ruhl
Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Attachment

CBBY9204203 - 0001.0.0

COUNTY OF ORANGE

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702

November 13, 1991

Sub Sen
Shell Western E & P, Inc.
P.O. Box 11164
Bakersfield, CA 93389

Subject: "Remedial Workplan" (Dated October 15, 1991) For Huntington Beach Field (SWEPI), 20101 Golden West St., Huntington Beach, CA - O.C.H.C.A Case #88UT110

Dear Mr. Sen:

Please be advised that this office has reviewed the above referenced plan. We have found the plan to be adequate to initiate remediation at the subject site, provided the following considerations are addressed:

1. Continue to monitor groundwater on a quarterly basis. If groundwater contamination levels show unacceptable increases or indicate that contamination is spreading, remediation of groundwater will be required.

2. Notify me (Peter Peuron) 48 hours in advance of verification sampling of soil (after completion of venting) so that I may be on-site to witness this sampling.

3. It will be important to maintain accurate records that reflect system effectiveness as vapor extraction proceeds. Influent and effluent monitoring data should be supplied to this Agency on a regular basis. A justification for termination of vapor extraction will be based on a demonstration that further system operation would yield negligible benefits (as well as the results of verification sampling).

4. The proposed locations for verification sampling borings will not be acceptable since these locations (which are in immediate proximity to the venting wells) do not represent worst case sampling zones. Prior to arranging an appointment for verification sampling, it will be necessary to submit to this Agency a map showing alternative verification sampling locations that are

representative of soil zones that might be most heavily contaminated after soil venting. This map should include a delineation of soil contamination levels found prior to treatment. Consult with this Agency prior to submittal of this map.

If you have any questions, please contact me at (714) 667-3719.

Very truly yours,

Peter Peuron

Peter Peuron
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

PP:db

PREPARED FOR: SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
P.O. Box 11164
5060 California Avenue
Bakersfield, California 93389-1139

REMEDIAL WORK PLAN
GAS PUMP AREA, HUNTINGTON BEACH PRODUCTION UNIT
HUNTINGTON BEACH FIELD
SHELL WESTERN EXPLORATION AND PRODUCTION, INC.
HUNTINGTON BEACH, CALIFORNIA

OCTOBER 15, 1991

PREPARED BY: GROUNDWATER TECHNOLOGY, INC.
20000/200 Mariner Avenue
Torrance, California 90503

WRITTEN BY:

JOHN P. HUNDLEY
Project Manager

REVIEWED BY:

WILLIAM F. GIROLAMO
Operations Manager
REA. No. 01881

REGISTERED ENVIRONMENTAL ASSESSOR
WILLIAM F. GIROLAMO
No. REA - 01881
Expires 6/30/92
STATE OF CALIFORNIA

GROUNDWATER TECHNOLOGY, INC.

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FIGURE 2 SITE PLAN (SHOWING GROUNDWATER MONITORING WELLS AND VAPOR EXTRACTION WELL LOCATIONS)

FIGURE 3 SITE PLAN (SHOWING PROPOSED VERIFICATION BORING LOCATIONS)

LIST OF ATTACHMENTS

PERMIT TO CONSTRUCT (VARIOUS LOCATIONS WITHIN THE SCAQMD) FOR AN IC ENGINE.

INTRODUCTION

This proposed remedial work plan for the gas pump area of the Shell Western Exploration & Production, Inc., Huntington Beach Production Unit (Figure 1) has been prepared by Groundwater Technology, Inc. per our discussion with the Orange County Health Care Agency (OCHCA) regarding clean-up of the site at a meeting September 26, 1991.

BACKGROUND

Previous remedial activities at the site have included removal of underground storage tanks containing gasoline and stoddard solvent. All related hydrocarbon-containing soils were excavated to groundwater (approximately 35 feet below grade) except for an area extending beneath an existing building located southeast of the former pit.

Assessment has shown that a limited amount of hydrocarbon-containing soils remains at approximately 25 to 32 feet below grade beneath and just northwest of the existing building. Dissolved-phase hydrocarbons exist in groundwater in the vicinity of the hydrocarbon-containing soils beneath the building, and samples obtained from nearby groundwater monitoring wells show that dissolved-phase hydrocarbons have not migrated substantially from the source area. Groundwater extraction from the monitoring wells during a recent pump test and during sampling has substantially lowered hydrocarbon concentrations in wells where hydrocarbons were previously detected. Figure 2 shows groundwater monitoring wells and vapor extraction well locations.

It is our understanding that installation of a groundwater treatment system may become necessary if the dissolved-phase hydrocarbons appear to be spreading. It is further understood that containment of the hydrocarbons must be achieved by the proposed remedial strategy.

PROPOSED WORK PLAN

Remediation will focus on source removal of the hydrocarbons, containment of the dissolved-phase, and groundwater monitoring to determine the effectiveness of the soil venting.

Remediation will consist of extracting the adsorbed-and vapor-phase hydrocarbons from the soils through two wells, vapor monitoring well GTV-2, and groundwater monitor well GTW-5. Remediation through soil venting will eliminate hydrocarbons within the soil and help volatilize and remove dissolved-phase hydrocarbons in the groundwater. The vapor extraction test conducted December 7, 1989, showed an approximate radius of influence of 18 feet. (Phase I, "Site Assessment Report, Gasoline and Stoddard Solvent Tank Excavation, Huntington Beach Production Unit, Shell Western Exploration and Production, Inc., Huntington Beach California", dated June 22, 1990). This radius of influence is expected to increase due to backfilling the tank excavation, and is expected to cover the entire zone of hydrocarbons remaining in the soil.

A soil vapor treatment system using an internal combustion (IC) engine will be operated for approximately two weeks to lower hydrocarbon concentrations to levels where carbon adsorption becomes feasible. The IC engine has a South Coast Air Quality Management District (SCAQMD) permit to construct, for various locations within the SCAQMD. Attached is the permit to construct for IC engine. The system will be operated according to the requirements listed in that permit. Daily system monitoring of the IC engine will be performed, with weekly influent and effluent sampling. The carbon absorption system will be permitted separately through SCAQMD for use at the site. The carbon system will be monitored daily for the first two weeks and on a weekly basis thereafter. The influent and effluent will be sampled weekly for the first two weeks, bi-weekly for two months and monthly thereafter.

Concurrent with soil vapor extraction, groundwater will be monitored to verify the containment and reduction of dissolved-phase hydrocarbons. Monitor well GTW-5 will be gauged, purged and sampled monthly. Quarterly gauging and sampling will be performed on all on-site monitoring wells (GTI-1 through GTW-7). A quarterly report summarizing all remedial and monitoring activities at the site will be submitted to OCHCA.

All actions taken to achieve source elimination will be performed under the direction and with the approval of the controlling agencies. These agencies are the OCHCA, SCAQMD, and the California Regional Water Quality Control Board (RWQCB). Groundwater Technology will notify OCHCA in advance of scheduled on-site work.

CURRENT SITE STATUS

Installation of the wells for vapor extraction has been completed. Installation of the vapor treatment system, including installation of the vapor extraction and treatment system will begin upon approval of this plan from OCHCA. The IC engine can be put at this site almost immediately, as it is already permitted and only requires simple notification of SCAQMD prior to use. Also, it can be attached directly to a well for vapor extraction (e.g., GTW-5) without installation of ancillary piping. While the IC engine is being used for initial vapor treatment, a Permit-to-Construct application for carbon adsorption will be prepared and submitted to the SCAQMD. Upon approval of the system by the SCAQMD, the Permit-to-Construct will become a Permit-to-Operate. Upon completion of permitting, approximately one month is expected to complete delivery, installation and start-up of the carbon adsorption treatment system. Soil treatment via carbon adsorption is expected to take 8 to 12 months.

MONITORING PROGRAM

Periodic sampling of the air stream will be performed. Air samples will be laboratory analyzed for total non methane petroleum hydrocarbons (TNMH), methane, and benzene, toluene, ethylbenzene, and xylenes (BTEX) following SCAQMD Method 25.2 and EPA Method 8020. All monitoring and maintenance performed on the system will be recorded in a log book available for review at any time by any of the controlling agencies. Monthly gauging and purging will be performed on well GTW-5. All seven groundwater monitoring wells (GTW-1 through GTW-7) will be gauged, purged and sampled on a quarterly basis. Groundwater samples will be laboratory analyzed for total petroleum hydrocarbons as gasoline (TPH), BTEX and Total Lead following EPA Methods 8015, 8020 and 7421, respectively. One sample from GTW-5 will also be analyzed for TPH as stoddard solvent following EPA Method 8015 during quarterly sampling. Quarterly reports will be submitted to OCHCA during operation of the vapor extraction and treatment system.

VERIFICATION FOR CLOSURE

During operation of the vapor extraction and treatment system, volatile organic compounds (VOC) in the airstream will be recorded and graphed until such time as the slope of a graphed curve, which depicts hydrocarbon concentrations versus time levels off, indicating soil venting is no longer necessary. Data will then be evaluated to determine if hydrocarbon concentrations in the soils have declined enough to seek closure. If not, further remedial strategy will be planned.

If data evaluation suggests that site closure is possible, verification borings will be planned to confirm that soil hydrocarbon concentrations are below agency action levels. Figure 3 is a site plan showing proposed verification boring locations. Soil samples will be taken at 5-foot depth intervals within the zone where hydrocarbons had initially been

detected. The soil samples will be analyzed for TPH, BTEX and total lead following EPA Methods 8015, 8020 and 7420, respectively. Based on the results of laboratory analysis, a request for closure will be submitted to the OCHCA.

In light of the amount and concentrations of hydrocarbons in the subsurface, Groundwater Technology believes that this remediation can be performed and closure obtained in a relatively short period of time. We request the assistance of OCHCA to expedite the permitting and installation of the treatment system. Our desire is to begin remediation as soon as possible.

FIGURE 1

SITE LOCATION MAP

S.W.E.P.I.
20101 Golden West
Huntington Beach, California
Job No. 216-325-1801-00

N



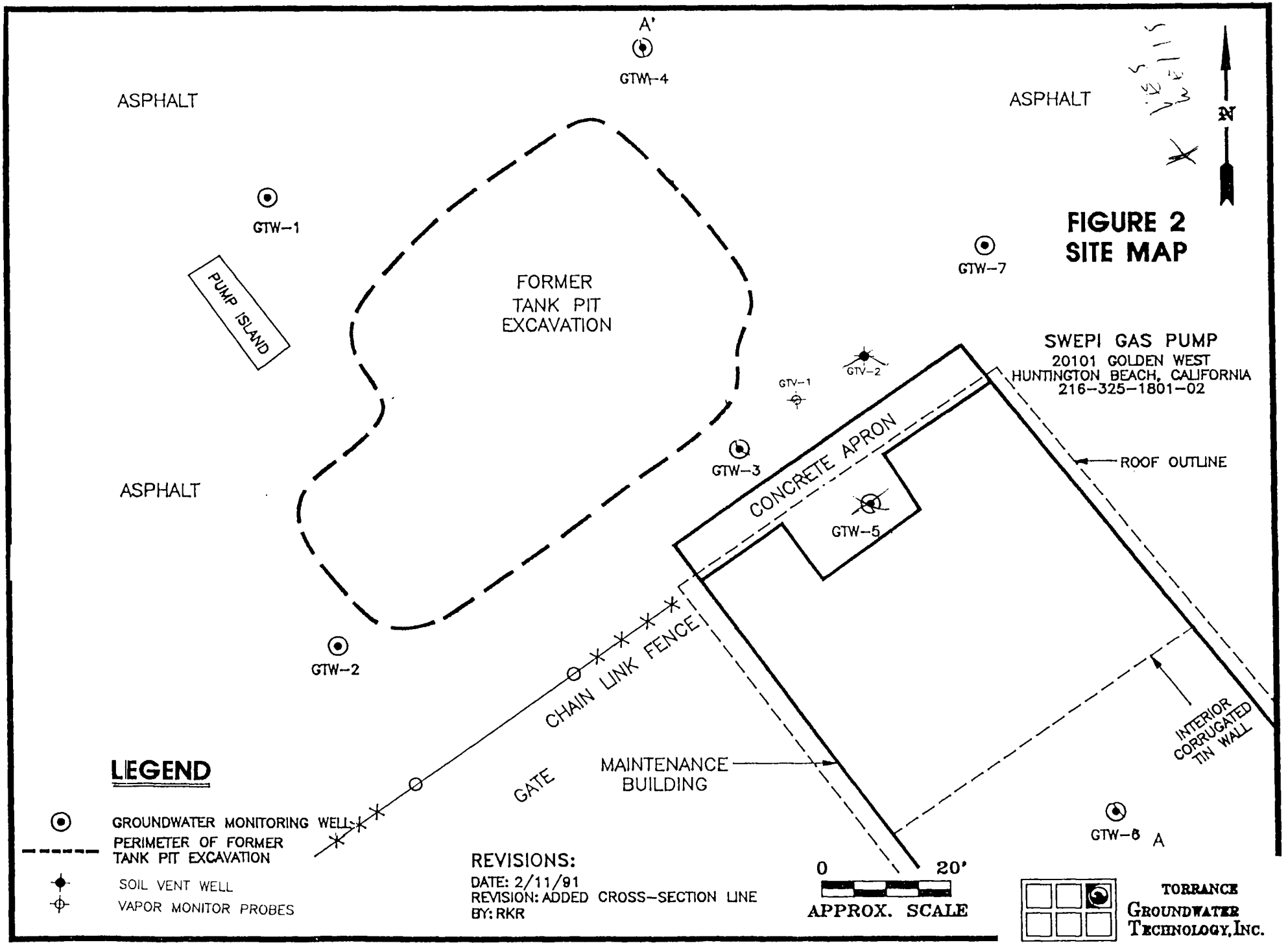
Source: U.S.G.S. Seal Beach, Calif. 1965
Photorevised 1981

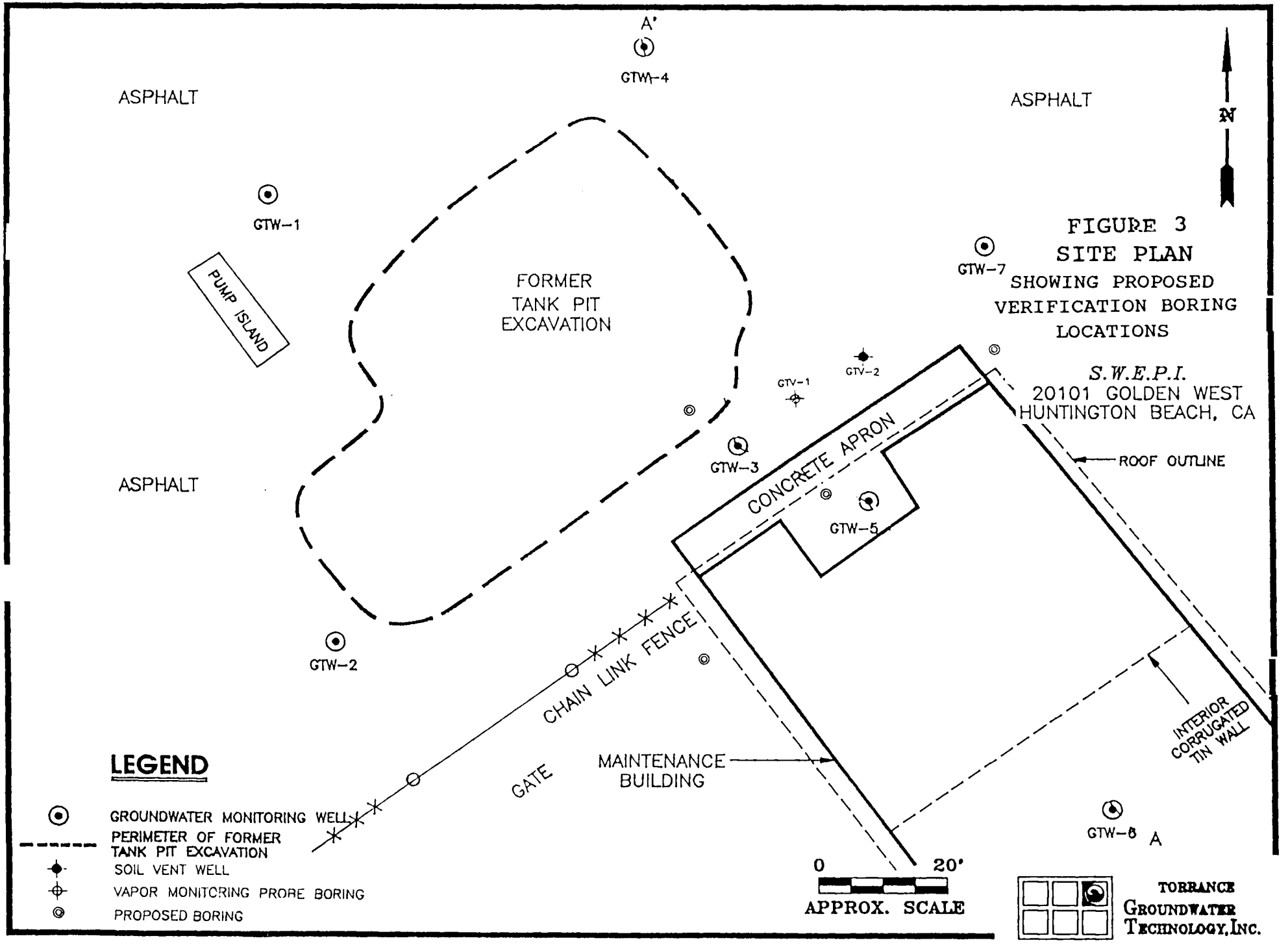
SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

TORRANCE
GROUNDWATER TECHNOLOGY, INC.


A'
GTW-4
ASPHALT
ASPHALT
N
GTW-1
PUMP ISLAND
FORMER
TANK PIT
EXCAVATION
GTW-7
FIGURE 2
SITE MAP
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
GTV-1
GTV-2
GTW-3
CONCRETE APRON
ROOF OUTLINE
ASPHALT
GTW-5
GTW-2
CHAIN LINK FENCE
INTERIOR
CORRUGATED
TIN WALL
GATE
MAINTENANCE
BUILDING
GTW-6
A
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER
TANK PIT EXCAVATION
SOIL VENT WELL
VAPOR MONITOR PROBES
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE
GROUNDWATER
TECHNOLOGY, INC.


A'
GTW-4
ASPHALT
ASPHALT
N
GTW-1
PUMP ISLAND
FORMER
TANK PIT
EXCAVATION
GTW-7
FIGURE 3
SITE PLAN
SHOWING PROPOSED
VERIFICATION BORING
LOCATIONS
S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
GTV-1
GTV-2
GTW-3
CONCRETE APRON
ROOF OUTLINE
ASPHALT
GTW-5
GTW-2
CHAIN LINK FENCE
INTERIOR
CORRUGATED
TIN WALL
GATE
MAINTENANCE
BUILDING
GTW-6
A
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER
TANK PIT EXCAVATION
SOIL VENT WELL
VAPOR MONITORING PROBE BORING
PROPOSED BORING
0
20'
APPROX. SCALE
TORRANCE
GROUNDWATER
TECHNOLOGY, INC.

PERMIT TO CONSTRUCT/OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

This initial permit must be renewed by 01/01 ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: ID 87140

GROUNDWATER TECHNOLOGY, INC.
20,000/200 MARINER AVENUE
TORRANCE, CA 90503-1670
ATTN: FRED CLARK

Equipment located at: VARIOUS LOCATIONS IN SCAQMD

Equipment Description:

SOIL VAPOR EXTRACTION AND TREATMENT SYSTEM CONSISTING OF:

1. VAPOR EXTRACTION WELLS

2. HORIZONTAL VAPOR COLLECTION WELLS, EMBEDDED IN CONTAMINATED SOIL PILES, EACH WITH A MAXIMUM OF 450 CUBIC YARDS, WITH TOTAL ABOVE GROUND SOIL TREATMENT NOT TO EXCEED 2,000 CUBIC YARDS.

3. VACUUM EXTRACTION, FLEXIBLE HOSE WITH AIR FILTER, INDUCED SUCTION BY ENGINE INTAKE.

4. INTERNAL COMBUSTION ENGINE, FORD, MODEL NO. LSG-875, SERIAL NO. 37, 8 CYLINDERS, 150 BHP. COMBINED WITH A CAR SOUND 3 WAY - 2 WAY CATALYST AND A COMPUTERIZED OXYGEN AIR TO FUEL SENSING AND CONTROL UNIT.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE DIRECTOR OF ENFORCEMENT SHALL BE NOTIFIED IN WRITING OF THE FOLLOWING INFORMATION FIVE DAYS PRIOR TO PLACING THE EQUIPMENT IN THE DISTRICT.

ORIGINAL

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

A. THE LOCATION WHERE THE EQUIPMENT WILL BE OPERATED.
B. THE ESTIMATED CALENDAR TIME THE EQUIPMENT WILL BE OPERATED AT THE LOCATION.
C. ALL OPERATING RECORDS REQUIRED UNDER CONDITIONS NO. 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17 AND 18 AT THE PREVIOUS LOCATION.

4. AN IDENTIFICATION TAG OR NAME PLATE SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW, MODEL NO., SERIAL NO. AND MANUFACTURER. THE TAG OR PLATES SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE ADHERED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.

5. THIS EQUIPMENT SHALL NOT BE OPERATED WITHIN 1000 FEET OF THE OUTER BOUNDARY LINE OF ANY SCHOOL (KINDERGARTEN THROUGH HIGH SCHOOL).

6. THIS EQUIPMENT SHALL ONLY BE USED TO EXTRACT AND TREAT THE VAPORS FROM NON CHLORINATED HYDROCARBON VAPORS.

7. THE OXYGEN CONTENT BETWEEN THE EXHAUST OF THE I.C. ENGINE AND THE INLET OF THE CATALYST SHALL BE MAINTAINED AT 0.5 - 0.6% BY VOLUME WHENEVER THE ENGINE IS IN OPERATION.

8. THE OXYGEN CONTENT AT THE OUTLET OF THE CATALYST SHALL BE MAINTAINED AT 0.3 - 0.4% BY VOLUME WHENEVER THE ENGINE IS IN OPERATION.

9. THE OXYGEN SENSOR AND RECORDER SHALL BE CALIBRATED AND MAINTAINED TO MONITOR THE OXYGEN CONTENT UNDER CONDITIONS NO. 7 AND 8.

10. THE OXYGEN CONTENT STATED UNDER CONDITION NO. 7 SHALL BE MAINTAINED BY AN AUTOMATIC AIR TO FUEL RATIO REGULATING INSTRUMENTATION SYSTEM.

11. VAPORS SHALL NOT BE EXTRACTED FROM THE WELL UNLESS THEY ARE VENTED TO THE I.C. ENGINE AND CATALYST SYSTEM WHICH ARE IN FULL OPERATION AND HAS BEEN ISSUED A PERMIT BY THE EXECUTIVE OFFICER.

12. AN ORGANIC VAPOR ANALYZER (OVA) OR OTHER APPROVED MONITOR SHALL BE USED TO MEASURE THE TOTAL HYDROCARBON CONCENTRATION IN THE OUTLET FROM THE CATALYST OF THE I.C. ENGINE. MEASUREMENTS SHALL BE TAKEN ONCE EVERY OPERATING WEEK.

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

13. AIR CONTAMINANT EMISSIONS AT THE EXIT OF THE I.C. ENGINE CATALYST SHALL NOT EXCEED THE FOLLOWING LIMITS BEFORE ANY DILUTION:

    A. NON-METHANE HYDROCARBON EMISSIONS 50 PPM BY VOLUME AS HEXANE.
    B. NOX, 80 PPM BY VOLUME.
    C. CO, 300 PPM BY VOLUME.

14. A TIMER SHALL BE INSTALLED TO INDICATE THE TOTAL OPERATING HOURS OF THE EQUIPMENT.

15. THE CATALYST SHALL BE REPLACED AFTER A BREAKTHROUGH CONDITION HAS BEEN DETERMINED BY THE MEASUREMENTS MADE UNDER CONDITION NO. 13 OR AFTER 4,000 HOURS OF OPERATION, WHICH EVER OCCURS FIRST.

16. THE AMOUNT OF BENZENE IN THE I.C. ENGINE CATALYST EXHAUST STREAM SHALL NOT EXCEED 0.3 PART PER MILLION, BY VOLUME (PPMV) AS DETERMINED BY METHOD 410A OF CALIFORNIA AIR RESOURCES BOARD.

17. A FLOW RECORDER SHALL BE INSTALLED AND MAINTAINED AT THE INLET OF THE I.C. ENGINE TO RECORD THE TOTAL FLOW RATE IN CUBIC FEET PER MINUTE (CFM).

18. THE FLOW RATE MEASURED UNDER CONDITION NO. 16 SHALL NOT EXCEED 250 CFM.

19. SAMPLING PORTS SHALL BE PROVIDED AT THE LOCATIONS LISTED BELOW:

    1. THE INLET COLLECTED VAPORS DIRECTED TO THE ENGINE.
    2. THE EXHAUST DIRECTLY FROM THE ENGINE.
    3. THE STACK EXHAUST FOLLOWING THE CATALYST.

20. SAMPLING PORTS SHALL BE PROVIDED AT THE LOCATIONS LISTED BELOW:

    1. THE INLET COLLECTED VAPORS DIRECTED TO THE I.C. ENGINE.
    2. THE STACK EXHAUST FOLLOWING THE CATALYST.

21. THE STOCKPILED CONTAMINATED SOIL SHALL BE COMPLETELY COVERED WITH, VISQUEEN PLASTIC SHEETING PROPERLY SECURED IN PLACE OR OTHER APPROVED COVER DURING TREATMENT. AN EQUIVALENT CONTROL METHOD MAY BE USED UPON PRIOR WRITTEN APPROVAL BY THE EXECUTIVE OFFICER.

22. THIS PERMIT ALLOWS FOR THE STOCKPILING OF CONTAMINATED SOIL FOR MORE THAN 40 DAYS.

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY MUST BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/ltv
July 24, 1991

ORIGINAL

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

October 29, 1991

FEDERAL EXPRESS

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency
County of Orange
2009 East Edinger Avenue
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT AND REMEDIAL WORK PLAN
OCHA CASE #88UT110
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1991 Third Quarter groundwater monitoring report for the former underground tank site at Shell Western E&P Inc. (SWEPI) Huntington Beach facility (OCHA Case #88UT110), prepared by Groundwater Technology Inc. As follow up to our September 26, 1991 meeting at which we discussed SWEPI's proposed Remedial Work Plan (RWP), please also find attached a RWP report for your review and approval.

In general, SWEPI proposes to remove the remaining volatile hydrocarbons at the site to practically achievable levels through vapor extraction using first an IC engine, followed by a carbon adsorption system. SWEPI's strategy for the groundwater problem is source removal, containment and monitoring through periodic purging and sampling of key wells.

We thank you for your most efficient handling of our project. If you have any questions, please contact Sub Sen of our staff at (805) 326-5129.

Sincerely,

J. A. Ruhl
Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Attachment

CBBY9129503 - 0001.0.0

PROPOSED REMEDIAL OPTION

Remediation through soil venting eliminate hydrocarbons within soil and help volatilize and remove dissolved phase hydrocarbons in the groundwater.

- IC engine to be operated for two weeks and change over to Carbon adsorption.
- Extraction from GTW-5 and GTV-2.
- Estimated duration for carbon adsorption treatment: 8 to 12 months not including time for permitting, shakedown, maintenance or potential down time.

MONITORING SCHEDULE:

IC engine operation:

- daily system monitoring.
- weekly influent and effluent sampling.

Carbon adsorption:

- - daily system monitoring for first two weeks.
  - weekly basis thereafter.
- - weekly system sampling for first two weeks (or proper operation is assured).
  - bi-weekly for two months.
  - monthly thereafter.
- - monthly system monitoring reporting (includes evaluation of system performance).

Note: Treatment system will be operated and monitored according to the satisfaction of SCAQMD.

To verify reduction of dissolved-phase hydrocarbons, groundwater will be monitored during the remediation of soils.

- monthly gauging, purging and sampling from GTW-5.
- quarterly gauging and sampling from all monitoring wells (GTI-1 through GTI-7).
- quarterly groundwater monitoring reporting.

Implementation schedule

- Installation of vapor wells completed.
- Two weeks remediation using an IC engine to begin upon final decision.
- Installation of treatment system will begin after a final decision on remediation type and acceptance of design plan.
- SCAQMD permit to construct for carbon adsorption, applied immediately after final decision.
- Start up and trouble shooting to begin upon approval by SCAQMD.

When VOC influent levels drop to where soil treatment is no longer necessary, venting operations will be discontinued and confirmation borings will be drilled.
Groundwater samples will be collected from all on-site wells.
Based on these results a closure report will be submitted to OCHA.

HUNTINGTON BEACH PRODUCTION UNIT

SHELL WESTERN EXPLORATION AND PRODUCTION, INC.

20101 GOLDENWEST

HUNTINGTON BEACH, CALIFORNIA

SEPTEMBER 26, 1991

LEAD AGENCY: ORANGE COUNTY HEALTH AGENCY (OCHA)

SUPPORTING AGENCIES: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)
REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)

- Estimated hydrocarbons in soil = 6,000 mg/cubic meter @ 1,000 pounds of hydrocarbons.
- Radius of influence = 18 feet
- Vapor stream concentrations = 5,200 ug/l as gasoline and 6,300 ug/l as stoddard solvent

Treatment Technologies compared for evaluation:

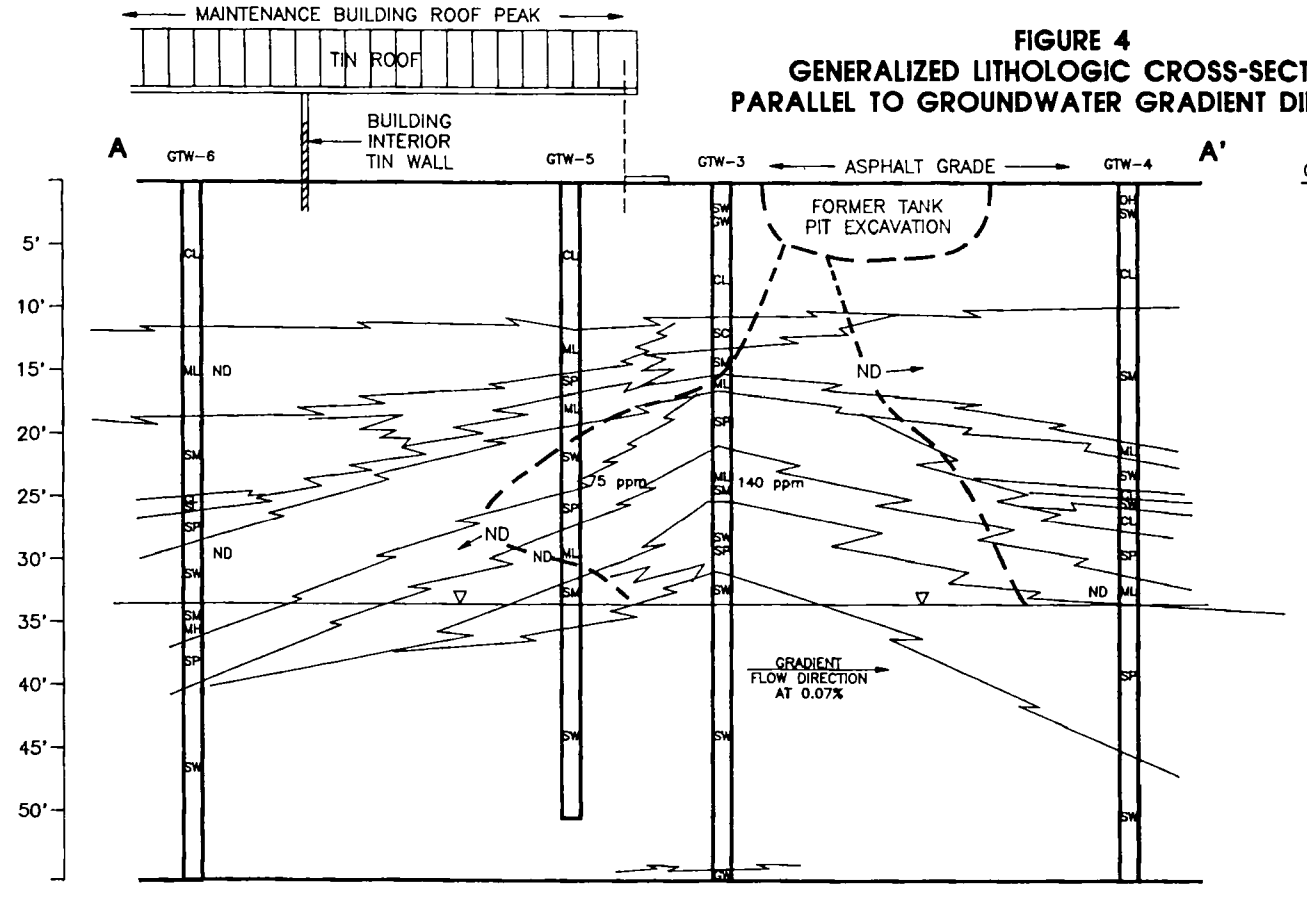
1) Carbon adsorption (two Westates VSC-1200 carbon canisters in series)

2) Catalytic oxidization (ORS Catalytic Scavenger)

3) Thermo Oxidization (Adwest regenerative thermal oxidizer (RETOX) and ORS Thermo Scavenger)

4) Internal Combustion Engine (VR systems)

FIGURE 4
GENERALIZED LITHOLOGIC CROSS-SECTION
PARALLEL TO GROUNDWATER GRADIENT DIRECTION





GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

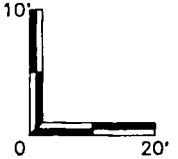
WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW: SAND/GRAVEL MIXTURE
SP: POORLY GRADED SAND
SW: WELL GRADED SAND
SM: SILTY SAND
SC: CLAYEY SAND
ML: CLAYEY/SANDY SILT
CL: SILTY CLAY

CH: VERY PLASTIC CLAY
OH: ORGANIC CLAY
* NOTE: WELL DIAMETERS EXAGGERATED
140 ppm TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
– – – TPH CONCENTRATIONS BELOW DETECTION LIMITS

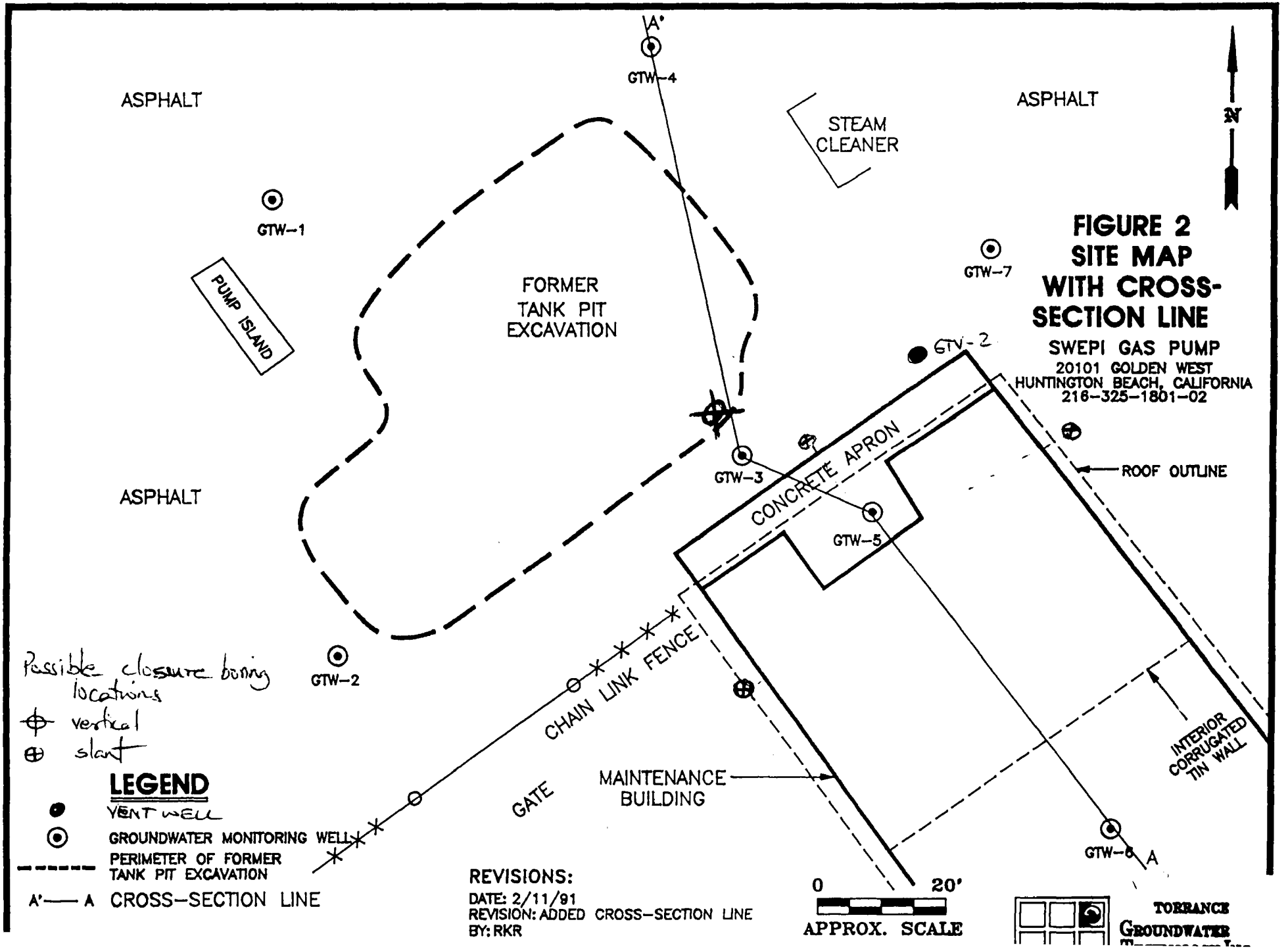
REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR

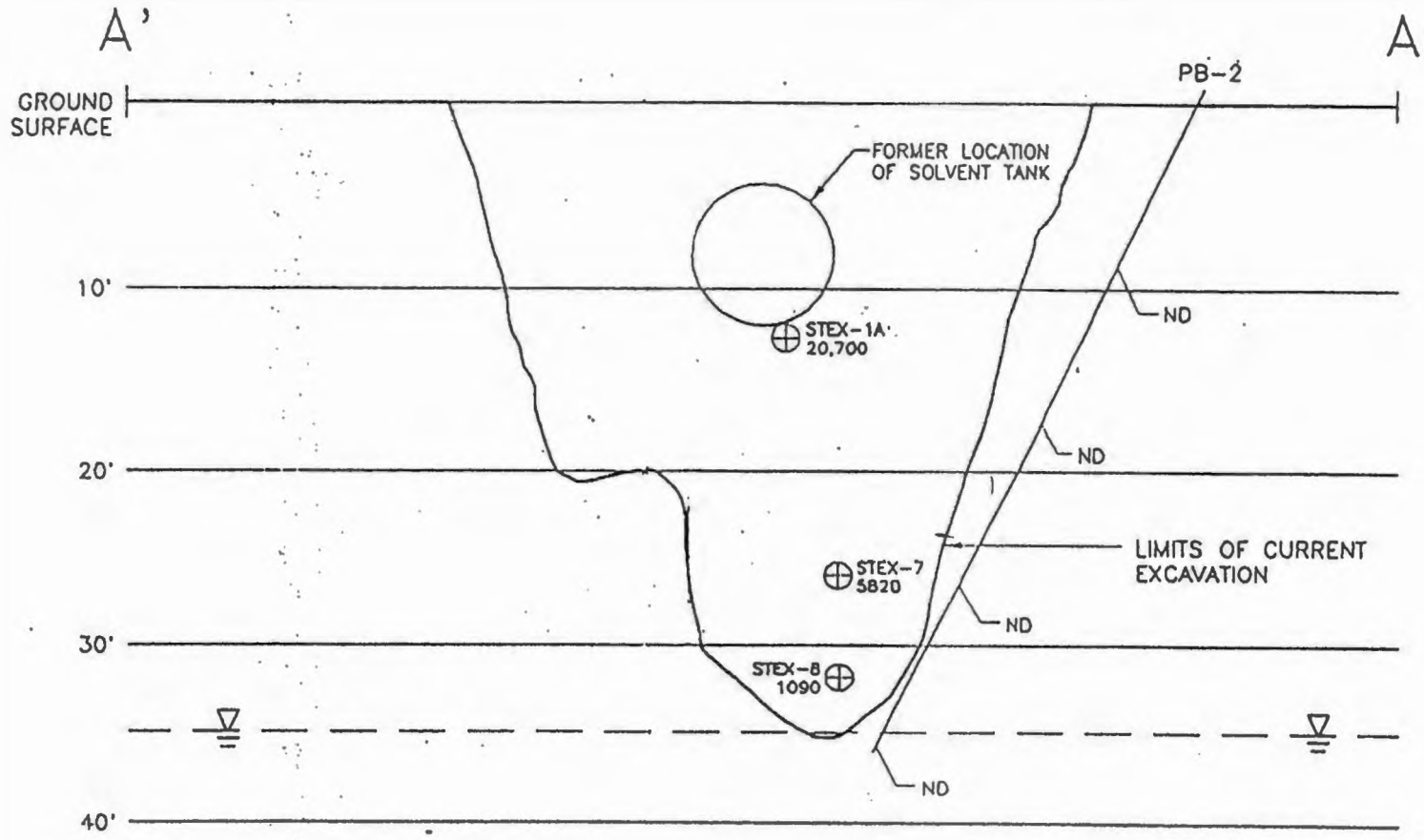


APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.


A'
GTW-4
ASPHALT
ASPHALT
STEAM CLEANER
N
GTW-1
PUMP ISLAND
FORMER TANK PIT EXCAVATION
GTW-7
FIGURE 2
SITE MAP WITH CROSS-SECTION LINE
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02
GTW-2
GTW-3
CONCRETE APRON
ROOF OUTLINE
ASPHALT
GTW-5
Possible closure boring locations
vertical
slant
GTW-2
CHAIN LINK FENCE
INTERIOR CORRUGATED TIN WALL
GATE
MAINTENANCE BUILDING
GTW-6
A
LEGEND
VENT WELL
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER TANK PIT EXCAVATION
A'—— A CROSS-SECTION LINE
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE
GROUNDWATER



NOTE:

PB-2 IS ANGLED BORING

⊕ = EXCAVATION GRAB SAMPLE

ND = NOT DETECTABLE

OTHER NUMBERS REPRESENT TOTAL PETROLEUM HYDROCARONS (mg/kg)

HORIZONTAL DIMENSIONS NOT TO SCALE

LOCATION OF CROSS SECTION SHOWN ON FIGURE 3

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

100 S. Citrus Ave
Suite 2-B
Covina, CA 91723

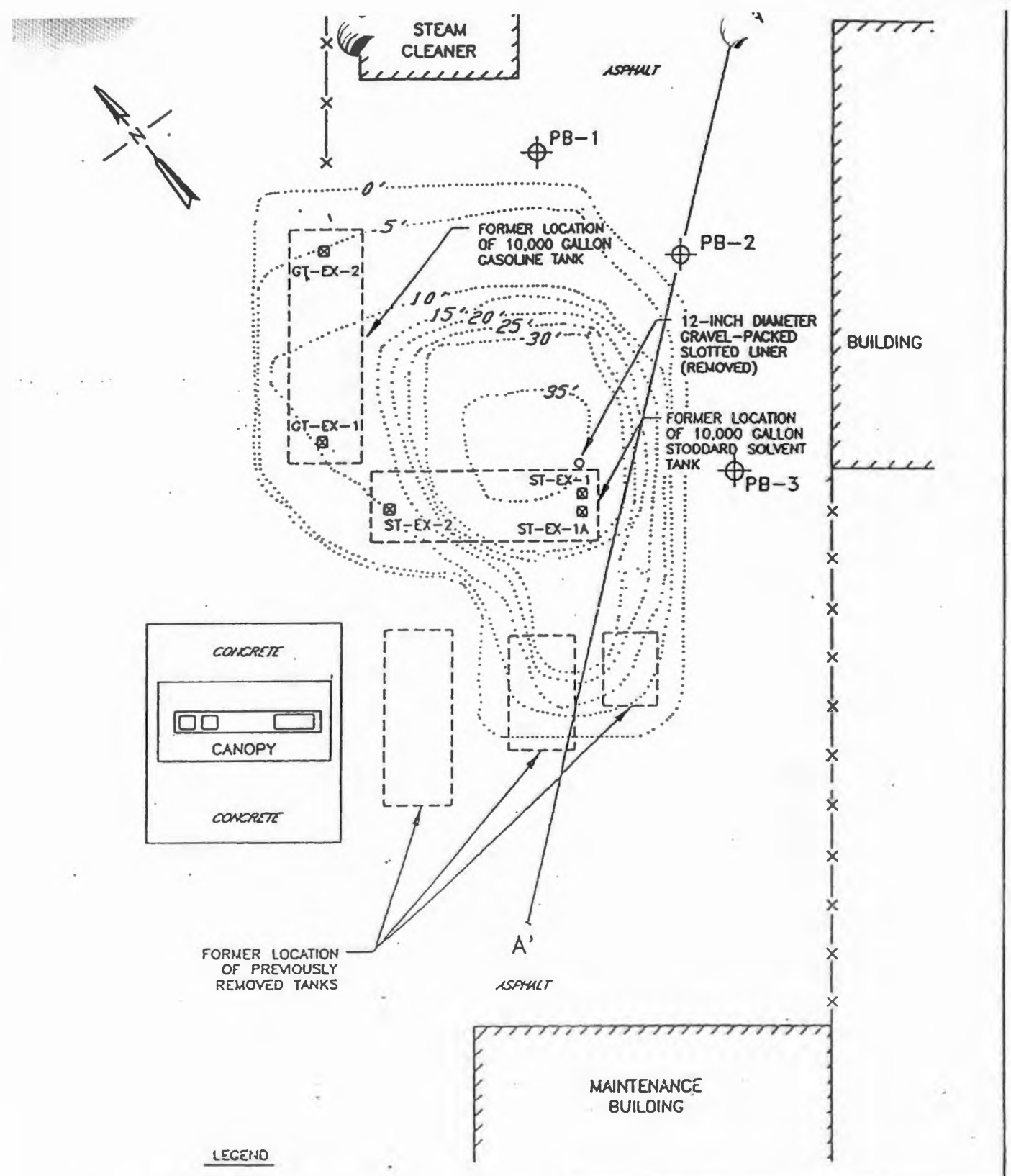
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

CROSS SECTION A-A'
BORING AND SAMPLE LOCATIONS

SHELL WESTERN EXPL. & PROD., INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

FIGURE 2

Date: 4/19/89



LEGEND

A—A' CROSS SECTION FROM FIGURE 4

PB-2 BORING LOCATION

5' EXCAVATION DEPTH CONTOUR

ST-EX-2 SOIL GRAB SAMPLE LOCATION

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS
100 S. Citrus Ave
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

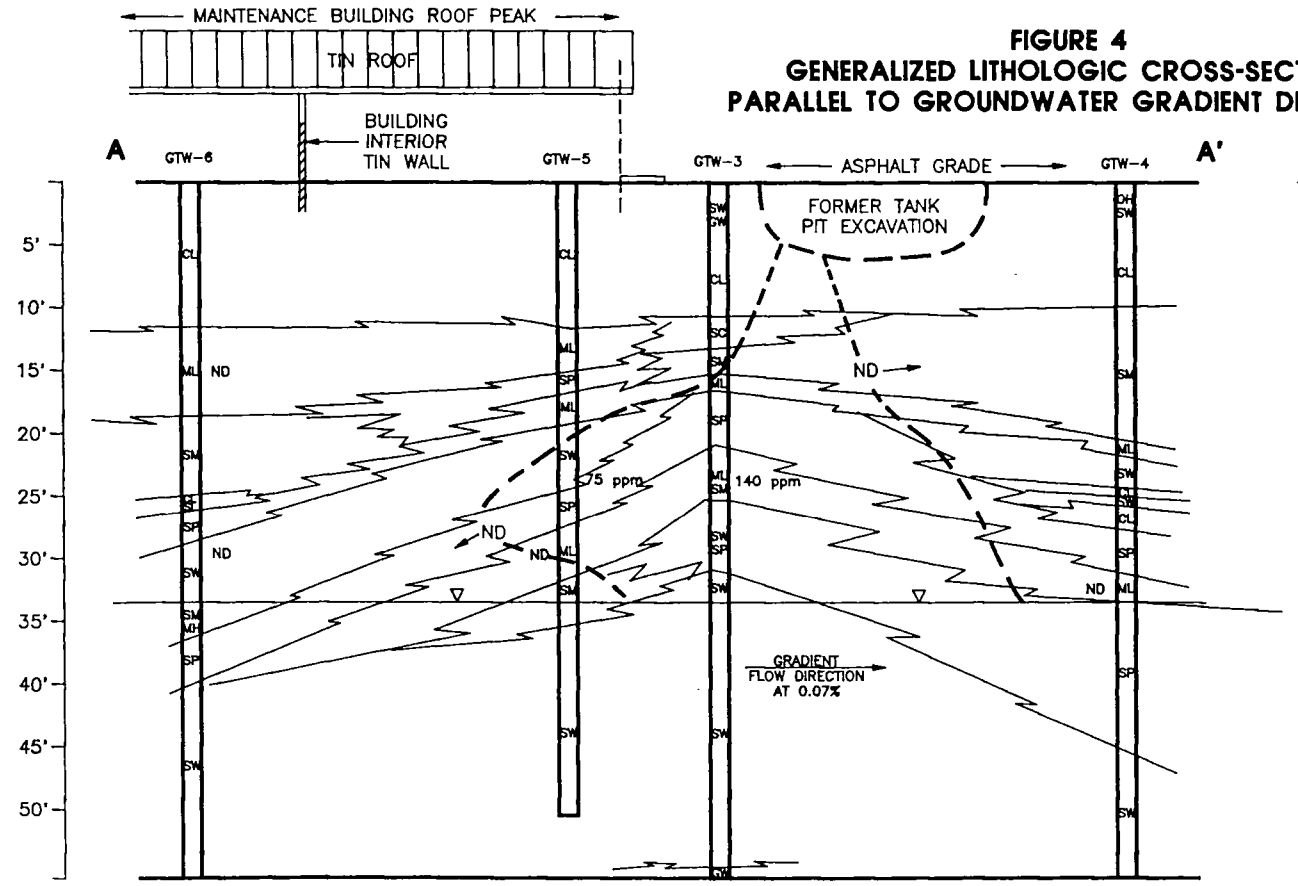
SITE PLAN & BORING LOCATIONS

SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT 188-7030

Not to Scale Date: 7/89

FIGURE 1

FIGURE 4
GENERALIZED LITHOLOGIC CROSS-SECTION
PARALLEL TO GROUNDWATER GRADIENT DIRECTION





GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

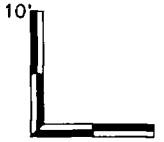
ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW:	SAND/GRAVEL MIXTURE
SP:	POORLY GRADED SAND
SW:	WELL GRADED SAND
SM:	SILTY SAND
SC:	CLAYEY SAND
ML:	CLAYEY/SANDY SILT
CL:	SILTY CLAY
CH:	VERY PLASTIC CLAY
OH:	ORGANIC CLAY
*	NOTE: WELL DIAMETERS EXAGGERATED
140 ppm	TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
- - -	TPH CONCENTRATIONS BELOW DETECTION LIMITS

REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR

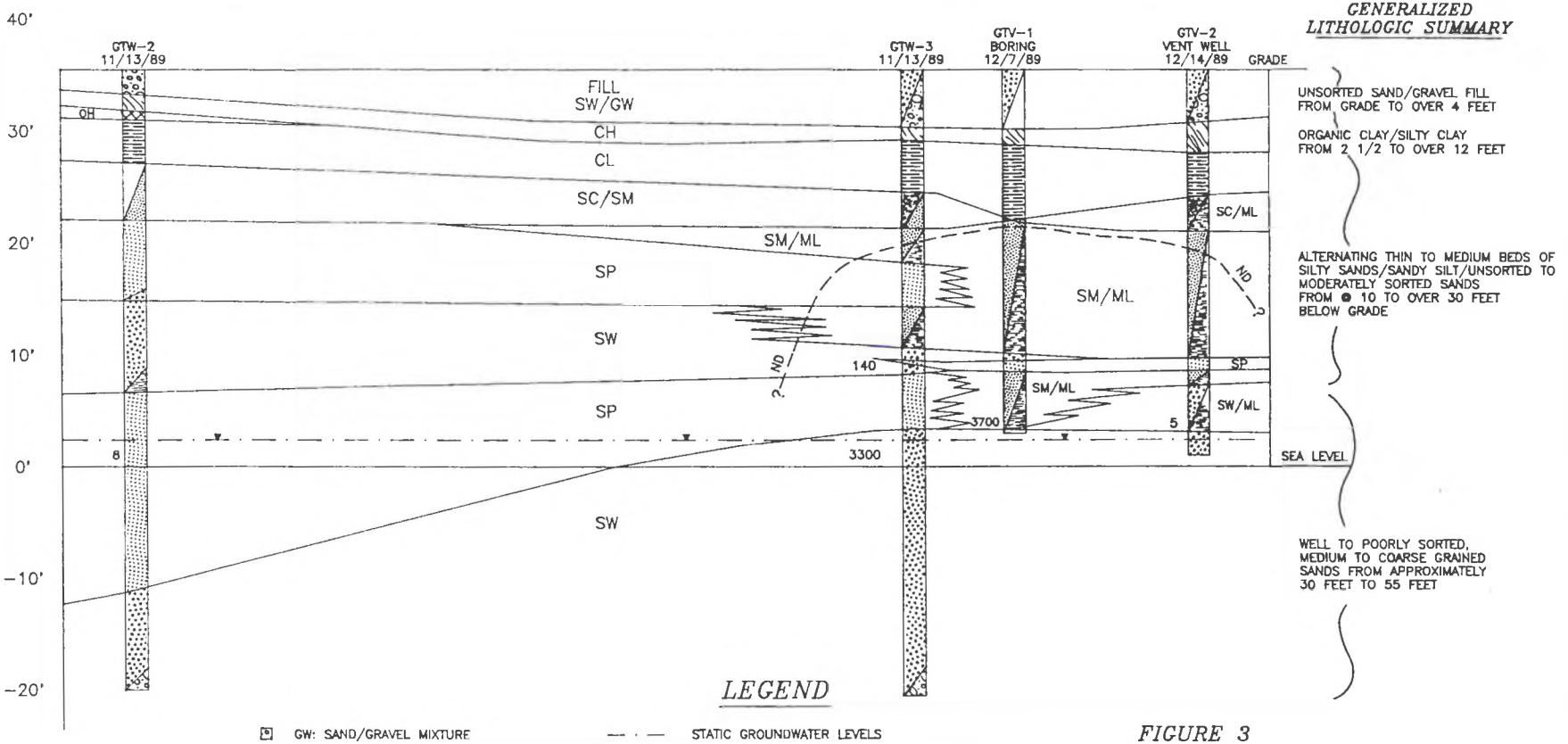


APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.

SOIL LITHOLOGIC CROSS-SECTION A-A'



GENERALIZED LITHOLOGIC SUMMARY

UNSORTED SAND/GRAVEL FILL FROM GRADE TO OVER 4 FEET

ORGANIC CLAY/SILTY CLAY FROM 2 1/2 TO OVER 12 FEET

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT/UNSORTED TO MODERATELY SORTED SANDS FROM @ 10 TO OVER 30 FEET BELOW GRADE

WELL TO POORLY SORTED, MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 30 FEET TO 55 FEET

LEGEND

- GW: SAND/GRAVEL MIXTURE
- SP: WELL SORTED SAND
- SW: POORLY SORTED SAND
- SM: SILTY SAND
- SC: CLAYEY SAND
- ML: CLAYEY/SANDY SILT
- CL: SILTY CLAY
- CH: VERY PLASTIC CLAY
- OH: ORGANIC CLAY

- STATIC GROUNDWATER LEVELS
- ND: TRANSITION ZONE ABOVE WHICH THERE ARE NON DETECTABLE ODORS AND LOW (BACKGROUND) PID READINGS IN BOREHOLE SOIL SAMPLES.
- 3700 : TPH FOR GASOLINE IN SOIL, CONCENTRATION MEASURED IN PARTS PER MILLION (PPM)
- 3300 : TPH FOR GASOLINE IN GROUNDWATER, CONCENTRATION MEASURED IN PARTS PER BILLION (PPB)

FIGURE 3
S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA.
216-325-1801-00
SCALE:1"=10'-0"
Geology By: Doug Ford
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

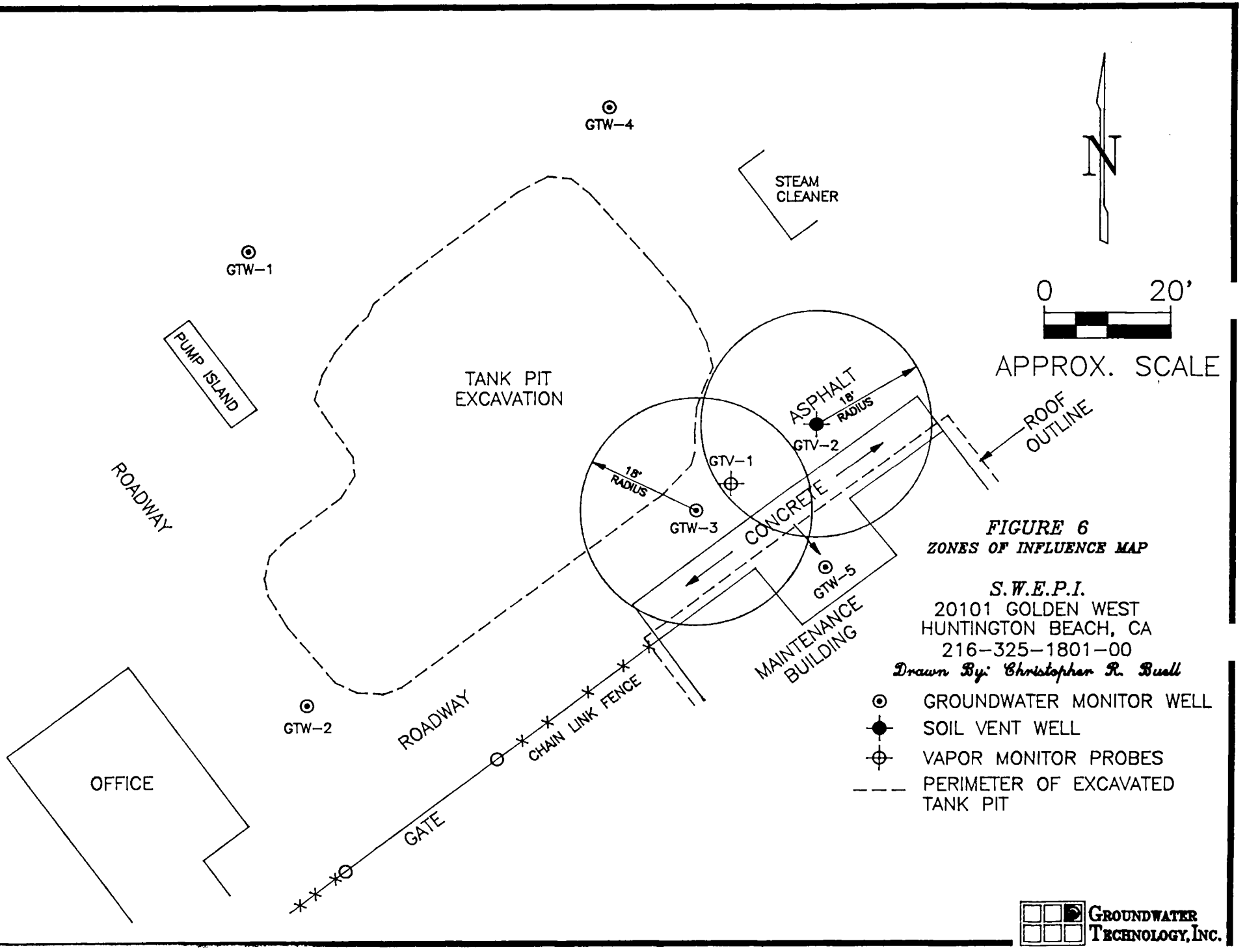
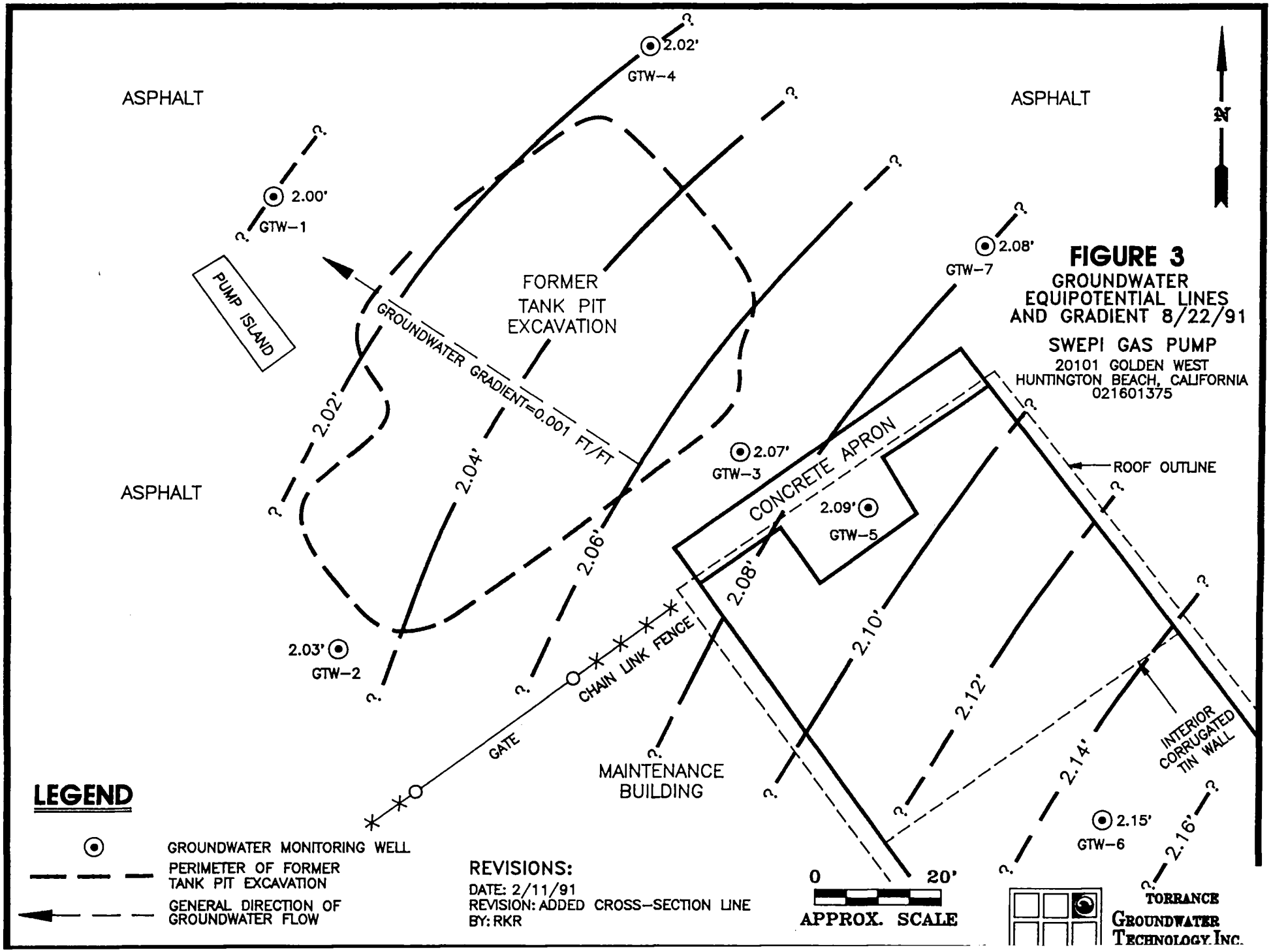


FIGURE 6
ZONES OF INFLUENCE MAP

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216–325–1801–00
Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.


ASPHALT
ASPHALT
ASPHALT
2.02'
GTW-4
2.00'
GTW-1
PUMP ISLAND
FORMER
TANK PIT
EXCAVATION
GROUNDWATER GRADIENT=0.001 FT/FT
2.02'
2.04'
2.06'
2.08'
GTW-7
2.07'
GTW-3
CONCRETE APRON
ROOF OUTLINE
2.09'
GTW-5
2.08'
2.10'
2.12'
2.14'
2.03'
GTW-2
CHAIN LINK FENCE
GATE
MAINTENANCE
BUILDING
INTERIOR
CORRUGATED
TIN WALL
2.15'
GTW-6
2.16'
N
FIGURE 3
GROUNDWATER
EQUIPOTENTIAL LINES
AND GRADIENT 8/22/91
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
021601375
LEGEND
GROUNDWATER MONITORING WELL
PERIMETER OF FORMER
TANK PIT EXCAVATION
GENERAL DIRECTION OF
GROUNDWATER FLOW
REVISIONS:
DATE: 2/11/91
REVISION: ADDED CROSS-SECTION LINE
BY: RKR
0
20'
APPROX. SCALE
TORRANCE
GROUNDWATER
TECHNOLOGY, INC.

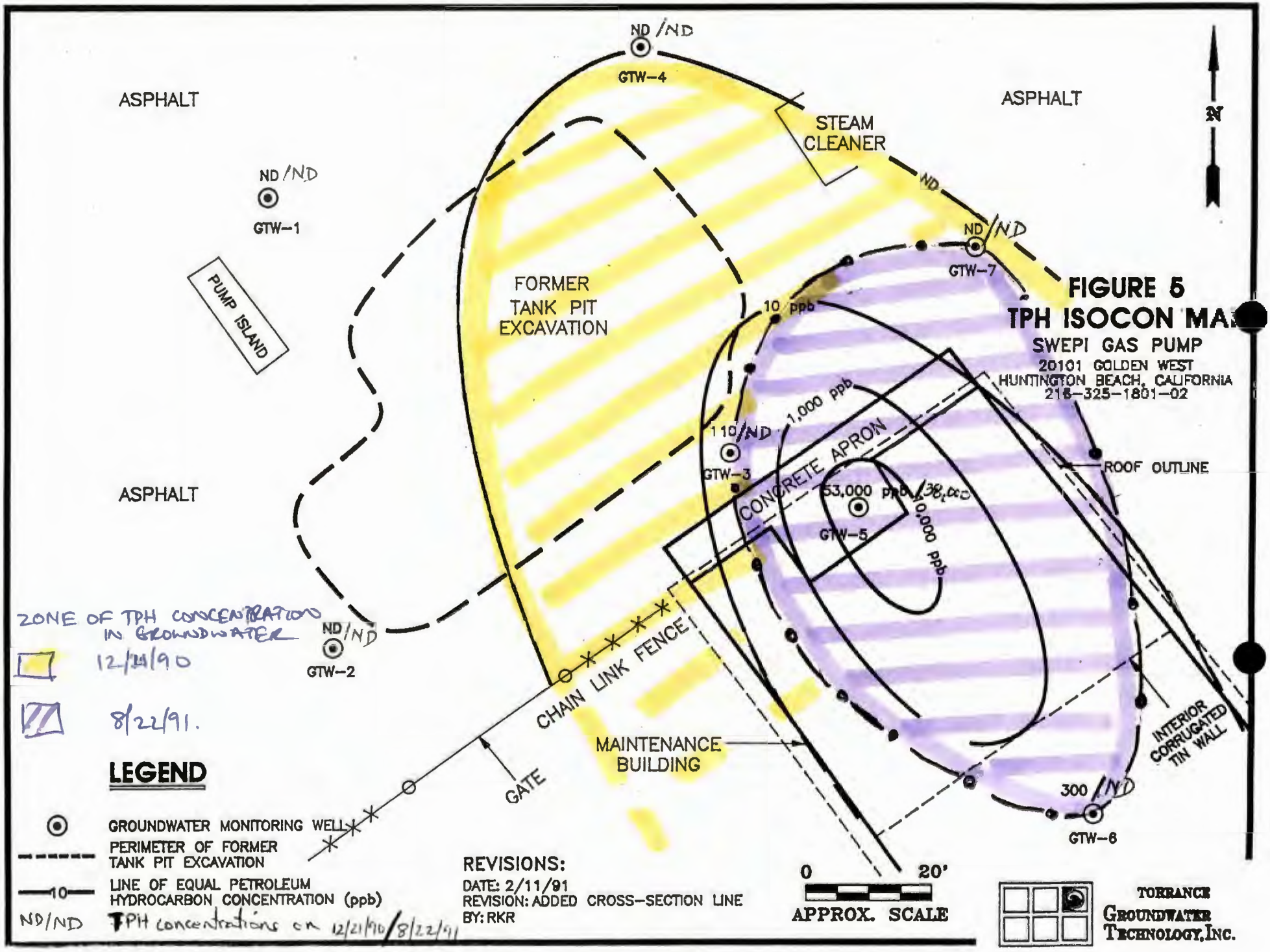


FIGURE 5
TPH ISOCON MA
SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

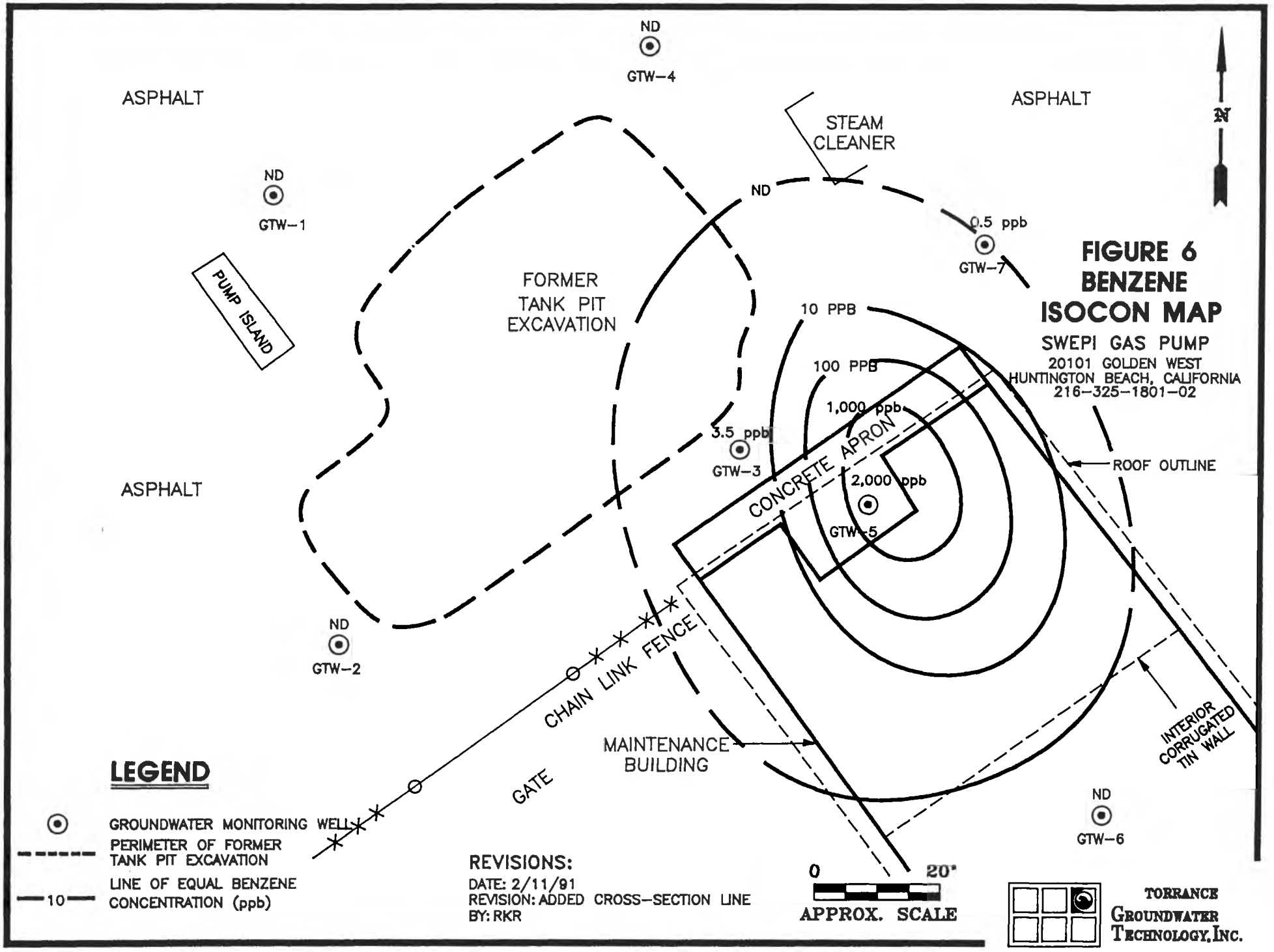


FIGURE 6
BENZENE ISOCON MAP

SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

August 1, 1991

FEDERAL EXPRESS

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency
County of Orange
2009 East Edinger Avenue
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: QUARTERLY REPORT
OCHCA CASE #88UT110
UNDERGROUND STORAGE TANK SITE
SHELL WESTERN E&P INC. (SWEPI)
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached the 1991 Second Quarter report for the subject site, prepared for SWEPI by its consultant Groundwater Technology Inc (GTI). We apologize for the delay, but we understand that GTI has kept you informed of our progress at this site through telephone conversations. At this point SWEPI is reviewing remedial options analyzed by GTI, and GTI will shortly assist SWEPI in preparing a Remedial Action Plan for your consideration. The anticipated date for the RAP to be ready is the end of September.

If you have any questions, please contact Sub Sen of our staff at (805) 326-5129.

Sincerely,

M J Klancher
IAO

J. A. Ruhl
Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Attachment

CBBY9121305 - 0001.0.0

cc: Mr. Bill Giralamo
Groundwater Technology Inc.
20000/200 Mariner Avenue
Torrance, CA 90503-1670

COUNTY OF ORANGE

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702

January 30, 1991

Sheila Dormier
Shell Western E & P, Inc.
P. O. Box 11164
Bakersfield, CA 93389

Subject: Quarterly Reporting Requirements for Unauthorized Release from an Underground Storage Tank at Shell Western E & P Site, 20101 Goldenwest Street, Huntington Beach, CA - O.C.H.C.A. Case #88UT110

Dear Ms. Dormier:

Please be advised that this Agency, which is authorized to enforce the State Underground Storage Tank Laws and Regulations, has not received a current progress report regarding the investigation and remedial activities completed to date at the subject location.

The California Code of Regulations, Title 23, Subchapter 16, Section 2652 requires that the following information be reported to the local agency every three (3) months until the cleanup is complete:

1. The results of all investigations completed at that time to determine the extent of soil or groundwater or surface water contamination due to the release.

2. Method of cleanup implemented to date, proposed cleanup actions, and approximate cost of actions taken to date.

3. Method and location of disposal of the released hazardous substance and any other contaminated soils or groundwater or surface water (indicate whether a hazardous waste manifest(s) is utilized).

Please submit to this office a summary report of the investigation and remedial activities that have occurred at the subject location. This report must be submitted within thirty (30) days of the receipt of this letter.

If you have any questions, please call me at (714) 667-3719.

Very truly yours,

Peter Peuron

Peter Peuron
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

PP:mm

cc: Steve Overman, Santa Ana Regional Water Quality Control Board

Shell Western E&P Inc.
An Affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

October 5, 1990

Mr. Peter Peuron
County of Orange Environmental Health
Hazardous Materials Management Section
1725 West 17th Street
Santa Ana, CA 92706

Dear Mr. Peuron:

SUBJECT: UNDERGROUND STORAGE TANK SITE UPDATE
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CALIFORNIA

The following UST site update has been prepared for you as requested in your telephone conservation with our Ms. Sheila Dormier on September 24, 1990.

Site Update

On November 9, 1989, Shell Western E&P Inc. (SWEPI) retained Groundwater Technology Inc. to install three groundwater monitoring wells around the perimeter of the existing excavation. At a later date, two additional monitoring wells and a soil vent well (with a separate boring containing dual vapor pressure probes) were installed (see Figure 2). Groundwater Technology collected soil and groundwater samples, determined groundwater gradient (see Figure 5), evaluated the laboratory data, and conducted a soil vapor extraction test. Based on the soil vapor testing results, we have determined what a representative area of recovery will be for an extraction well (see Figure 6).

The results of the soil sampling (Table 1) indicate the zone containing the highest levels of hydrocarbons occurs from 25 feet to just above groundwater at 31 feet in GTV-1. The groundwater sample results (Table 3) indicate the highest concentrations of gasoline contamination were found in GTW-3 and GTW-5.

Current Plans

SWEPI is currently reviewing a proposal for the installation of a farther upgradient groundwater monitoring well (see Figure 7) in an effort to confirm the lateral extent of soil and groundwater contamination.

You will be contacted prior to commencing any additional investigation at this site.

CBBY9026804 - 0001.0.0

If you have any further questions regarding this subject please contact Sheila Dormier at (805) 326-5684.

Sincerely,

for

J. A. Ruhl
Manager Health, Safety and Environment
West Coast Production Division

SFD:tls

Attachment

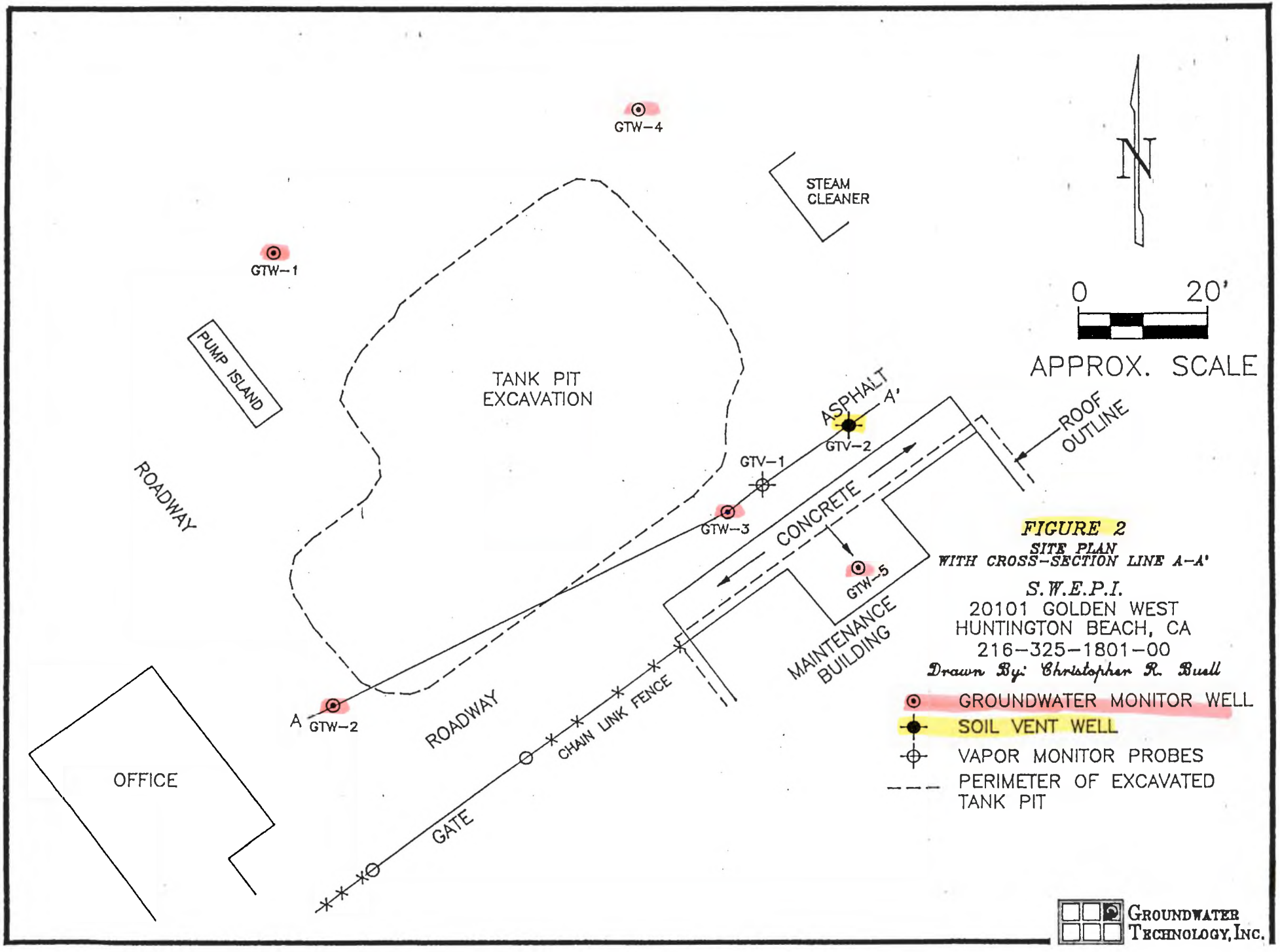


FIGURE 2

SITE PLAN

WITH CROSS-SECTION LINE A-A'

S.W.E.P.I.

20101 GOLDEN WEST

HUNTINGTON BEACH, CA

216-325-1801-00

Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

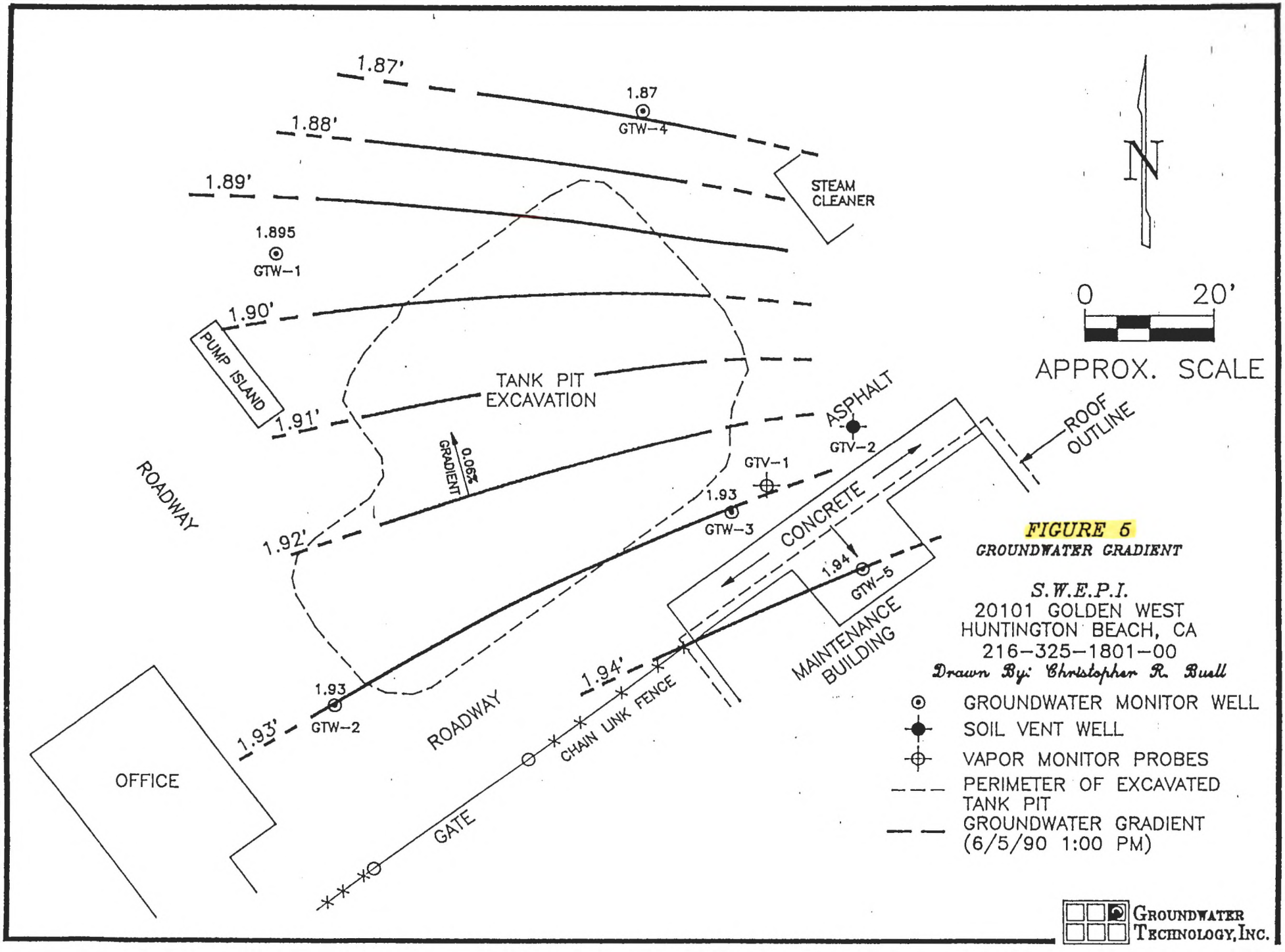


FIGURE 5

GROUNDWATER GRADIENT

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216-325-1801-00

Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

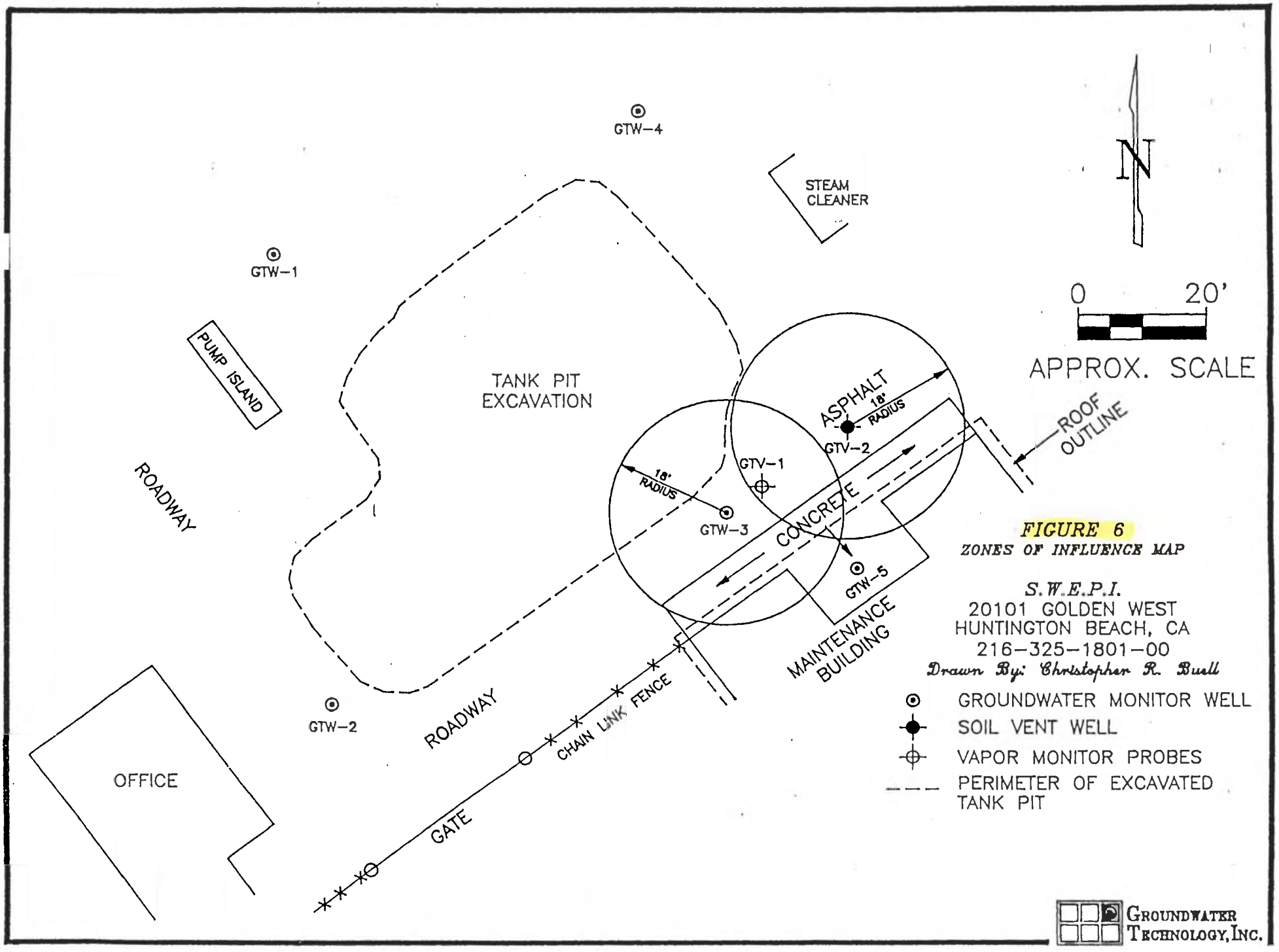


FIGURE 6

ZONES OF INFLUENCE MAP

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
216–325–1801–00

Drawn By: Christopher R. Buell

GROUNDWATER TECHNOLOGY, INC.

TABLE 1

Summary of Laboratory Analyses of Undisturbed Soil Samples Obtained From The Shell Production Unit, Tank Pit Area Shell Western Exploration and Production, Inc. Huntington Beach, California

Sampled November 10 Through December 14, 1989 and May 23, 1990

Sample No.	TPH (Gasoline)	TPH (Stoddard Solvent)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW1-5	ND	ND	ND	ND	ND	ND
GTW1-10	ND	ND	ND	ND	ND	ND
GTW1-15	ND	ND	ND	ND	ND	ND
GTW1-20	ND	ND	ND	ND	ND	ND
GTW1-25	ND	ND	ND	ND	ND	ND
GTW1-30	ND	ND	ND	ND	ND	ND
GTW2-25	ND	ND	ND	ND	ND	ND
GTW3-25	140	ND	0.41	3.8	3.0	18
GTW4-31	ND	ND	ND	ND	ND	ND
GTW5-25	70		0.24	2.1	1.8	9.1
GTW5-30	ND		0.22	0.89	0.21	1.2
GTV1-31	3,700	ND	11	240	180	970
GTV2-31	5	ND	0.34	0.19	0.38	1.8

ND = Not detected
All values are in parts per million (ppm).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppm): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05.
Exception: GTW5 TPH (gasoline) = 10

TABLE 3

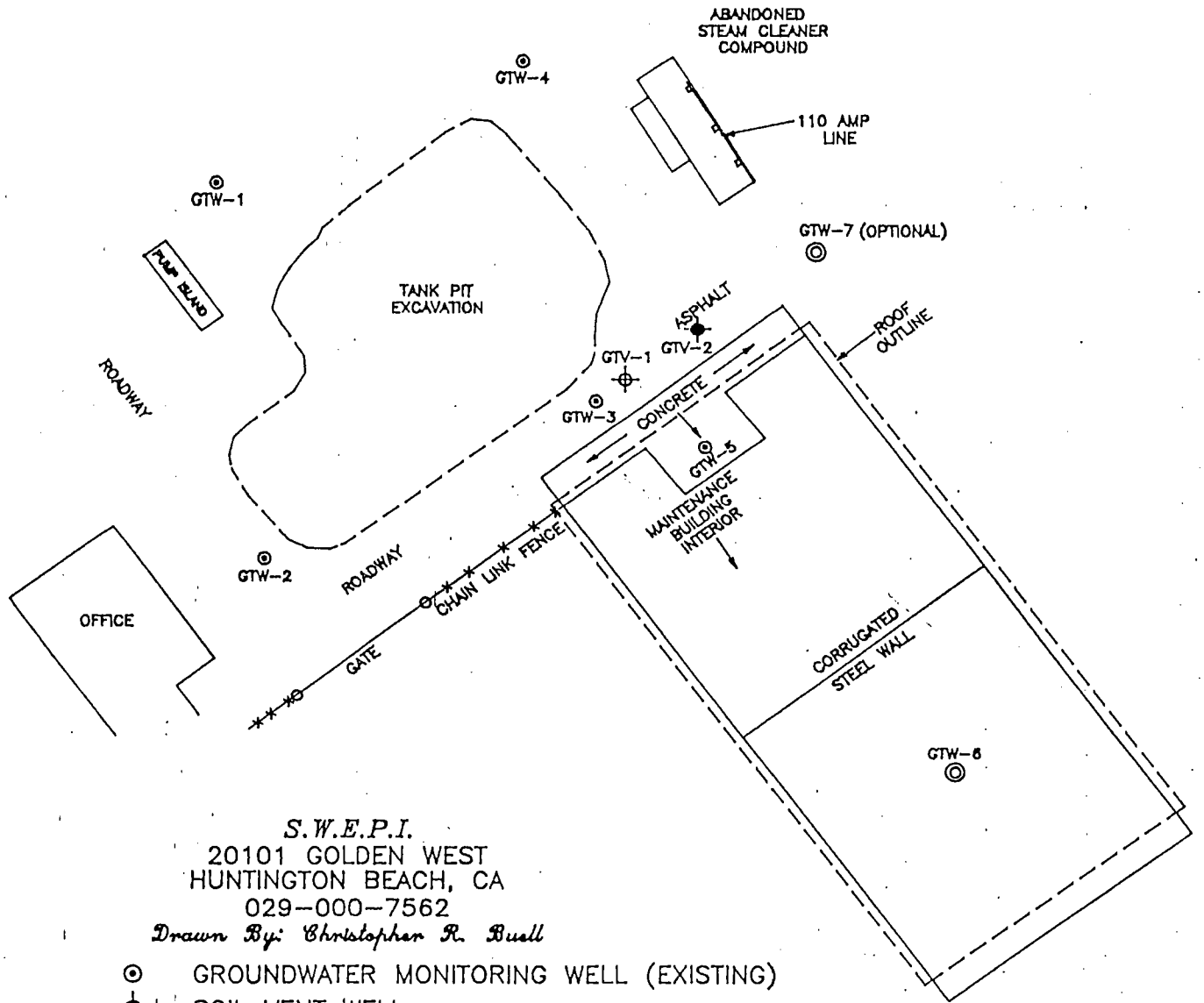
Summary of 602/8015 (BTEX/TPH) Analyses on Groundwater Samples Obtained During Well Development in The Shell Production Unit, Tank Excavation Shell Western Exploration and Production, Inc. Huntington Beach, California

Sampled October 17, December 19, 1989 and June 5, 1990

Sample No.	TPH (Gasoline)	TPH (Stoddard)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW-1 (11/17/89)	ND	ND	ND	ND	ND	ND
GTW-2 (11/17/89)	ND	8	5.0	ND	ND	ND
GTW-3 (11/17/89)	3,300	ND	110	330	290	1,100
GTW-4 (12/19/89)	21	--	ND	ND	ND	ND
GTW-5 (6/5/90)	80,000	--	3,800	13,000	4,700	29,000

ND = Not detected
All values are in parts per billion (ppb).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppb): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.5; toluene 0.5; ethylbenzene 0.5; xylenes 0.5.
Exception: GTW5 TPH (gasoline) = 100

The soil lithologic cross-section (Figure 3) has shown a limited lateral extent of impacted groundwater parallel to the south sidewall of the tank excavation. The level of dissolved-phase TPH in GTW5 is not presented in the cross-section, as the cross-section does not include that well.



N

0 35'

APPROX. SCALE

S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
029-000-7562
Drawn By: Christopher R. Buell

⊙ GROUNDWATER MONITORING WELL (EXISTING)
SOIL VENT WELL
VAPOR MONITORING PROBE BORING
◎ PROPOSED GROUNDWATER MONITORING WELL
PERIMETER OF FORMER
TANK PIT EXCAVATION

FIGURE 7

GROUNDWATER
TECHNOLOGY, INC.

88UT 110

SWEPI

SITE CONDITIONALS

12-7-89

- 5 TANKS WERE PULLED - 3 STODDARD - 2 GAS
  - CONTAMINATION FROM STODDARD SOLVENT
- HAVE LARGE EXCAVATION - TO 35' (V)
- 3 WELLS RECENTLY PUT ON-SITE
  - INFORMATION IS COMING IN.
- SOIL CONTAMINATION IN SOUTHWEST CORNER OF [redacted] PIT - BUILDING IN THE WAY
- LATERAL EXTENT NOT FULLY ASSESSED
  - TO SOUTHEAST [redacted] EAST AND SOUTH.
- GROUNDWATER INVESTIGATION JUST BEGUN - INFORMATION ON GRADIENT IS COMING IN.

CHRONOLOGY

5-20-88 - Scott Wald(?) out for pull of 2K STODDARD, 5K STODDARD & 7K REGULAR TANKS - TANKS SHOW NO HOLES

(1) - RESULTS -
- ALL SAMPLES SHOW HIGH TPH 1,500 TO 20,000 PPM
- STODDARD SOLVENT SAMPLES NOT ANALYZED FOR BTXE
- ONLY BTXE IS T = 12 PPM E = 10 PPM (BY "PUMPS") & X = 185 PPM FOR SP-1 (boring gas tank)

(2) 8-31-88 - JAYKIM site assessment - VERTICAL BUT NOT LATERAL ASSESSED. - NOT BELOW 20' NI & W NOT DET

(3) 4-4-89 - 10K STODDARD TANK REMOVED & 10K GAS TANK PULLED

- RESULTS -
- ND FOR ALL GAS-TANK SAMPLES
- TPH = 4,000 TO 20,000 FOR STODDARD SOLVENT
- B,T,E,X = 3,90,46,339 PPM (HIGHEST SAMPLE)

FILL END

THIS TIME SOLVENT GETS BTEX

4-26-89 LOC ENTRY INDICATES 956 TONS OF SOIL EXCAVATED & HAULED
- NO SITE ASSESSMENT WORK DONE -

(4) 6-24-89 - AMAN "site closure" report(?)
- SIGNIFICANT CONTAM. ABOUT 3' ABOVE GROUNDWATER
- UNACCEPTABLE SOIL RESULTS FOR BELOW V
- MORE ASSESSMENT NEEDED TO WEST

SITE ASSESS. INDICATES NEED FOR G.W. INVESTIGATION

8-18-89 - I visited site discussed case.
- FOUND UNREMOVED PIPING
- TOLD THEM SOIL SAMPLE BELOW V UNACCEPTABLE - G.W. INVESTIGATION NEEDED

8-31-89 — LETTER OUT REQUIRING
1. CALL H.C.A. TO BE ON-SITE FOR VERIFICATION SAMPLING
2. REMOVE PIPE WITH H.C.A. PRESENT
3. ADDITIONAL ASSESSMENT TO NORTHWEST
4. GROUND WATER INVESTIGATION

9-22-89 — ON-SITE FOR VERIFICATION SAMPLING
- RESULTS —
- SIGNIFICANT CONTAMINATION IN SOUTHEAST CORNER OF PIT (NEAR BUILDING)

12-1-89 - DISCUSSED W/ S. DORNIER
- BORINGS SHOW EXTENSIVE SOIL CONTAMINATION - BUILDING IN THE WAY
- THEY WILL PROBABLY HAVE TO VENT SOIL
- GROUNDWATER SAMPLING (3 WELLS - 1 IS DOWNGRADIENT) COMPLETE - RESULTS COMING IN.

STATUS

- WAITING FOR RESULTS OF GROUNDWATER INVESTIGATION

- WAITING FOR SITE ASSESSMENT TO BE COMPLETED
  - NEED BORINGS
    - TO EAST
    - TO SOUTH OF ORIGINAL 3 TANKS PULLED
    - TO WEST (NEAR PUMP ISLAND) SINCE BORING BY PUMP ISLAND SHOWED CONTAMINATION

- THEY WANT TO SOIL VENT.
  - DOING PERMEABILITY TESTING

ISSUES

- ANALYSIS FOR STODDARD SOLVENT
  - NO BTXE RESULTS FROM INITIAL PULL
  - DISTRICT STAFF - DO THEY REQUIRE

- SAMPLING IN FRINGE AREA
  - LUFT - leaving sample at V
  - DISTRICT PEOPLE DO WHAT?
  - WHAT IS CAP. ZONE IF GROUNDWATER HAS DROPPED

  - MOISTURE CONTENT DETERMINATION?









SITE LUST NO. 88UT110

GROUNDWATER CLEANUP PROGRAM
SITE INSPECTION FORM

DATE: 12-7-89
INSPECTOR: 2-00
TIME:

SITE NAME: SHELL WESTERN E&P
ADDRESS: 20101 GOLDENWEST
HUNTINGTON BEACH

GENERAL SITE CONDITIONS

CURRENT LAND USE OIL DRILLING FIELD
FUTURE LAND USE SAME
CURRENT ADJACENT LAND USE OIL DRILLING, BEACH
ANY NEARBY SENSITIVE LAND USES (SCHOOLS, RESIDENTIAL, ETC.)? PUBLIC BEACH AROUND 3/8 OF A MILE TO THE WEST
IS AREA (INCLUDING EXCAVATION) COMPLETELY SECURED? YES
IS THERE EVIDENCE OF MAN-MADE CONDUITS? NO
INDICATE CONDUITS, FENCES, NEARBY BUILDINGS, ETC. ON MAP

SOIL CONDITIONS/EXCAVATION

APPROXIMATE DIMENSIONS OF EXCAVATION (INDICATE UNITS) 35' (DEPTH) X 50' X 50'
SOIL TYPE(S) SAND DESCRIBE EXCAVATION(S); INCLUDE WHETHER THERE IS SHORING, PROXIMITY TO BUILDINGS, ETC.
PIT IS DOWN TO GROUNDWATER AT 35'. SIDES SLOPE AS SHOWN ON MAP (CONTOURS). PIT IS WELL-FENCED.
ESTIMATE SIZE(S) OF ANY SPOILS PILES 12' X 8' X 8' (2 OF THEM)
SHOW SPOILS PILE LOCATIONS AND ALL INSTRUMENT READINGS ON MAP

GROUNDWATER CONDITIONS/WELLS

DEPTH TO GROUNDWATER 35' GRADIENT DIRECTION & MAGNITUDE DUE NORTH at 0.0006
NUMBER OF MONITORING WELLS/PIEZOMETERS 3 NUMBER OF RECOVERY WELLS 0
IS THERE ANY FREE-PRODUCT IN ANY OF THE WELLS, OR OTHERWISE PRESENT AT THE SITE? NO
INDICATE ANY UNSECURED WELLS NONE
INDICATE LOCATIONS OF WELLS (INCLUDING ANY KNOWN ABANDONED WELLS) ON MAP

REMEDIATION

DESCRIBE ONGOING REMEDIAL ACTIVITIES: NONE. SOIL VENTING IS PLANNED. GROUNDWATER INVESTIGATION IS STILL UNDERWEIGH.

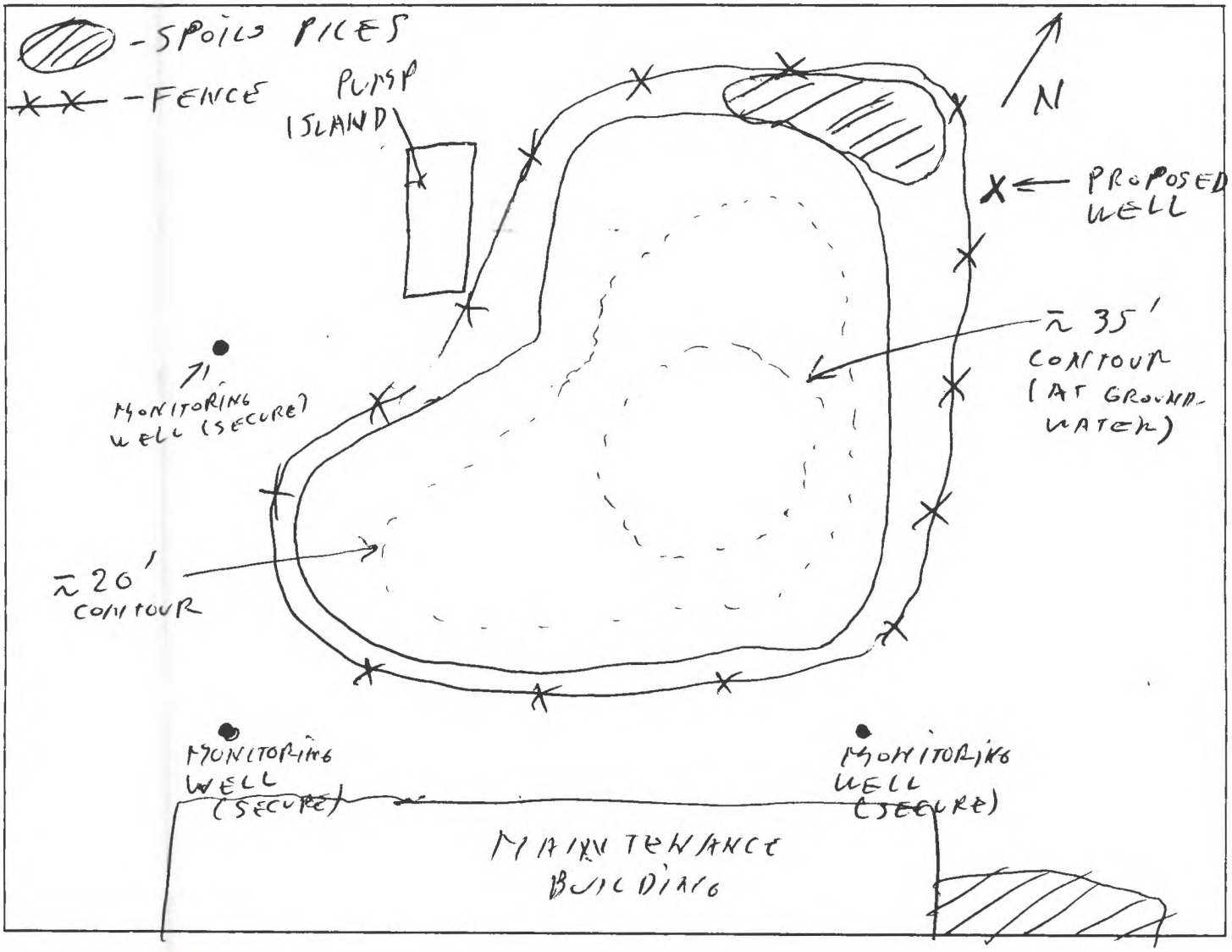
CONTACTS

NAME BILL WILDER COMPANY SHELL WESTERN TELEPHONE 969-3234
NAME DOUGLAS FORD COMPANY GROUNDWATER TECH TELEPHONE (213) 371-1394

SITE LUST NO. 88UT110

FIELD ACTIVITY NOTES: MET WITH BILL FORD & BRUCE DADUPOUR OF GROUNDWATER TECHNOLOGY AND BILL WALLACK OF SHELL WESTERN E&P. THEY PLANNED TO SHOW ME PERMEABILITY TESTING, BUT EQUIPMENT PROBLEMS MADE THIS DEMONSTRATION IMPOSSIBLE. THEY ASSURED ME THAT SITE INVESTIGATION WAS PROCEEDING. THEY PLAN TO FILL THE PIT AND REMEDIATE SOIL BY VENTING (SOIL IS SANDY). BILL SAID HE THOUGHT THE SPOILS HAD BEEN CLEARED BY MARK SUTPHIN AT TANK PULL. FILE SHOWS THIS IS NOT THE CASE. BILL WANTS TO REUSE SPOILS ON-SITE (BUT NOT AS BACKFILL)

FOLLOWUP NEEDED: NEED TO BE ON-SITE FOR SPOILS PILE ~~SAMPLING~~. HAVE INFORMED BILL WILDE OF NEED FOR THIS TESTING. WAITING FOR SOIL & GROUNDWATER RESULTS. FURTHER SITE ASSESSMENT ALSO NEEDED.



REV:09/22/89
FORM #60

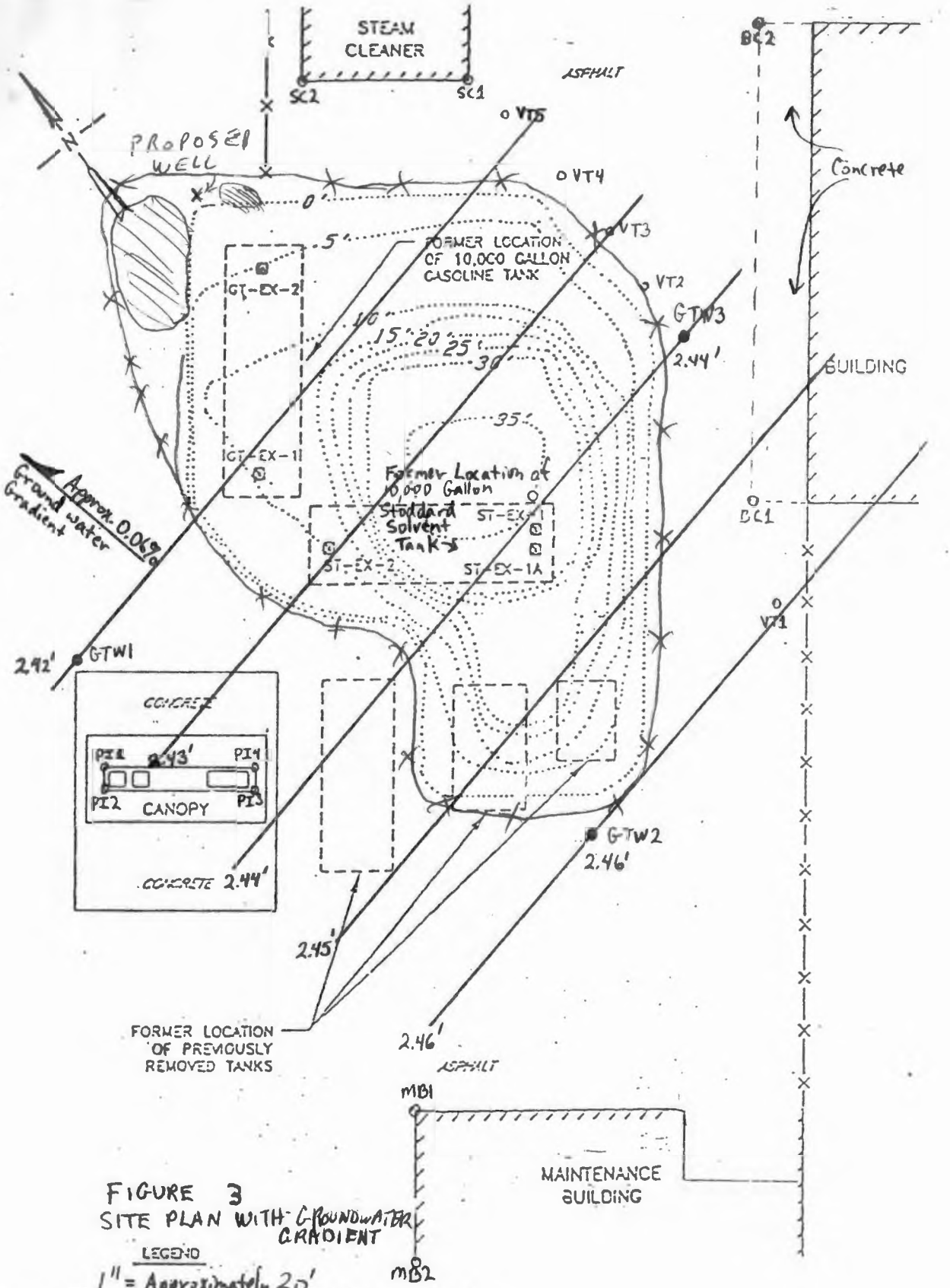


FIGURE 3
SITE PLAN WITH GROUNDWATER GRADIENT

LEGEND

1" = Approximately 20'

- Approximate Locations of Groundwater Monitoring Wells. (GTI)

+ Possible Soil Vapor Extraction Test Monitoring Points

5'..... EXCAVATION DEPTH CONTOUR

o Ground/Grade Survey Points of Reference

GROUNDWATER TECHNOLOGY, INC.

received 12-7-89

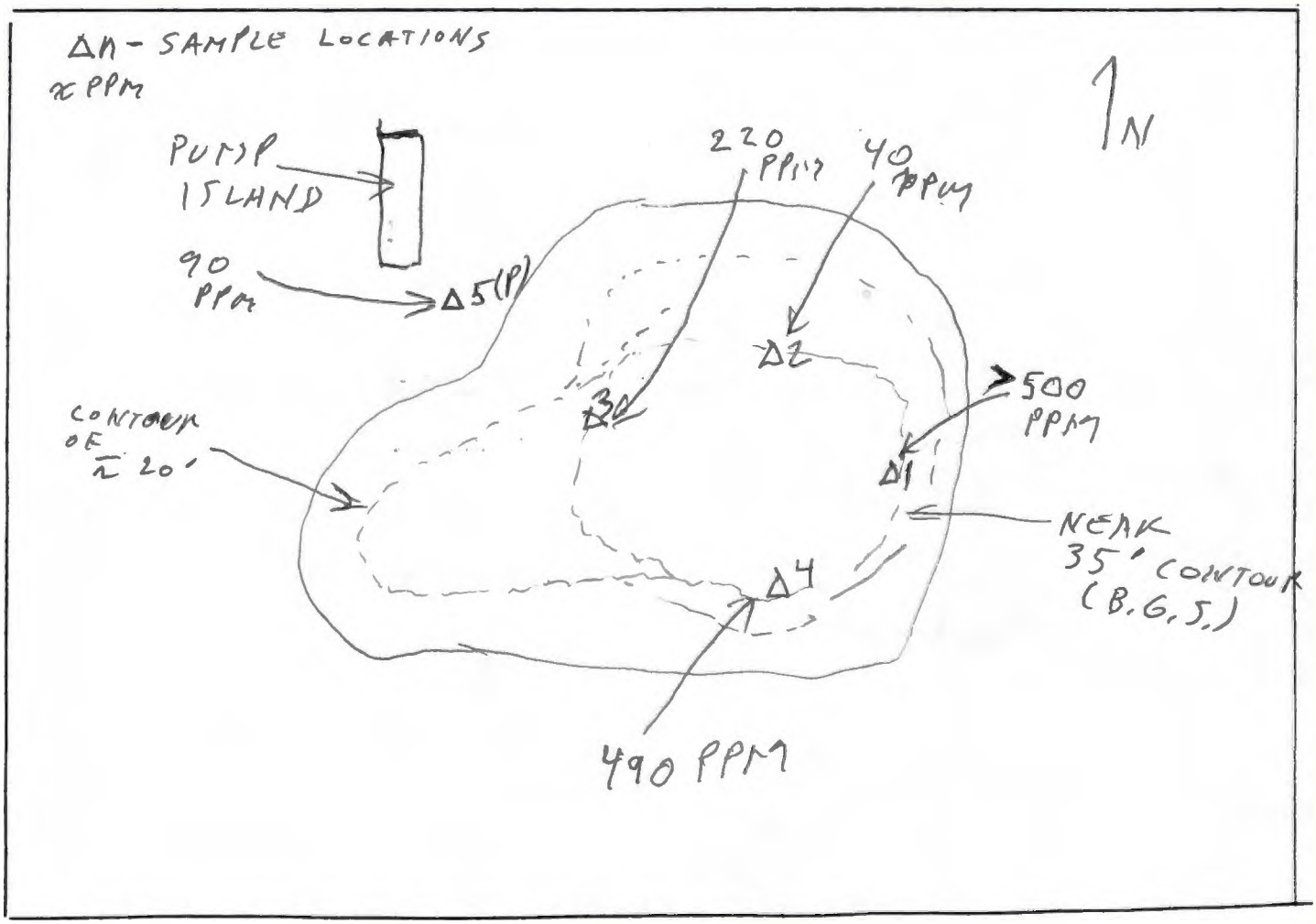
FIELD ACTIVITY DESCRIPTION

LUST #: _____ FACILITY NAME: SHELL WESTERN E&P DATE: 9-22-87

I.R. #: _____ ADDRESS: 20161 GOLDENWEST INSPECTOR: Zoo

HUNTINGTON BEACH TIME: _____

Field Activity: ARRIVED ON SITE FOR EXCAVATION VERIFICATION SAMPLING. MET WITH S. DORNIER & B. WILDER OF SHELL WESTERN - ALSO BRIAN HAYES OF AIRSAN ENVIRONMENTAL. SAMPLING WAS PERFORMED AS SHOWN ON DIAGRAM BELOW. NOTE 2 HIGH GASTECH READINGS FROM THE SOUTHEAST CORNER. SAMPLES WERE MOIST, BUT NOT WATERLOGGED. SAMPLE NUMBER THREE HAD A FAIRLY HIGH READING. ALL SAMPLES WERE TAKEN JUST ABOVE HIGHEST GROUNDWATER OR CAPILLARY FRINGE. SAMPLES WERE PROPERLY SEALED & SIGNED AWAY ON CHAIN OF CUSTODY.



ANGE COUNTY ENVIRONMENTAL HE H

UNDERGROUND TANK CLEANUP FORM

Facility Name _____ Address _____

Cross Streets _____ Site Telephone Number _____

Owner _____ Address _____

Contact Person _____ Telephone Number _____

Operator (If different than owner) _____ Telephone Number _____

Consultant (Contractor) _____ Contact Name _____ Telephone Number _____

Tank 1 _____
Size Const. Mat. Mat. Stored

Tank 4 _____
Size Const. Mat. Mat. Stored

Tank 2 _____
Size Const. Mat. Mat. Stored

Tank 5 _____
Size Const. Mat. Mat. Stored

Tank 3 _____
Size Const. Mat. Mat. Stored

Tank 6 _____
Size Const. Mat. Mat. Stored

epth To Groundwater _____

ire Depart. personnel on-site: _____

mbient air readings on field instrument: _____

roposition 65 required: _____

ther information: _____

EV:05/04/87

NTY OF ORANGE/HEALTH CARE AGEI
ENVIRONMENTAL HEALTH (714) 834-8020
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: _____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	_____	_____	_____ - _____
2.	Brian Hayes	ENVR. ENGR.	9-22-89 - 9-22-89
3.	_____	_____	_____ - _____
4.	_____	_____	_____ - _____
5.	_____	_____	_____ - _____
6.	_____	_____	_____ - _____

CRS F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E MERRYMAN, R. S. MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702

County of Orange

HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES

ENVIRONMENTAL HEALTH DIVISION
1725 W. 17TH STREET
SANTA ANA, CALIFORNIA 92706
(714) 834-8356

September 1, 1989

Sheila Dormier
Shell Western E & P Inc.
Stockdale Tower
P.O. Box 11164
Bakersfield, CA 93389-1164

Subject: The Closure Report for Shell Western Exploration and Production, Inc., Huntington Beach Unit, 20101 Goldenwest Street, Huntington Beach, CA.

Dear Ms. Dormier:

Please be advised that this office has reviewed the above referenced report. We have found the report to be inadequate to fully charaterize this extent of soil and groundwater contamination at the subject site at the subject site.

The following considerations are to be addressed in a revised report which must be submitted to this office for approval prior to any further on-site activity:

1. Additional site verification sampling must be performed. Notify this Agency at least 48 hours prior to sampling so that an representative from this Agency can be on-site to direct sampling. Be sure to have necessary equipment (including an appropriately sized backhoe as needed, sampling sleeves, ice chest etc.)

2. The piping which is still in the ground on the north side of the excavation must be removed. Notify this office at least 48 hours in advance of this removal so that a representative from this Agency can witness the removal.

3. Additional investigation is necessary to determine the extent of contamination towards the north. Please indicate to this office additional work to be performed at the site to determine the full extent of contamination.

4. The proximity of significant total petroleum and aromatic hydrocarbon levels on the soil near groundwater (within a few feet according to the report dated June 24, 1989) indicate that groundwater may have been impacted by contaminants. Therefore, a groundwater investigation must be conducted. This investigation must include (1) determination of magnitude and direction of groundwater gradient, and (2) water sampling of wells to include at a minimum, 1 sample taken in the down-gradient direction from the suspected source of leakage.

If you have any questions, please contact me at (714) 834-8322.

Very truly yours,

Peter Peuron

Peter Peuron
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

PP:11

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

August 7, 1989

FEDERAL EXPRESS

Ms. Lisa Casner
County of Orange Environmental Health
1719 West 17th Street
Santa Ana, CA 92702

Dear Ms. Casner:

SUBJECT: CLOSURE REPORT OF UNDERGROUND STORAGE TANK REMOVAL
HUNTINGTON BEACH PRODUCTION UNIT
HUNTINGTON BEACH, CALIFORNIA

Shell Western E&P Inc. (SWEPI) is pleased to present you with a summary of the work performed for the removal of two underground storage tanks located at the Huntington Beach Production Unit.

The underground storage tanks were removed on April 4, 1989. The grab samples obtained indicated that soil contamination was present and excavation was performed to remove approximately 640 cubic yards of contaminated soil.

Further site characterization was performed by AMAN Environmental Inc. on June 27, 1989 using three borings to define the vertical and lateral extent of the contamination. Results of the borings indicate that contamination has not extended deeper than the excavation or laterally to the east or north of the excavation.

Your earliest consideration of this site closure is appreciated. If you have any questions regarding this matter please contact Ms. Sheila Dormier at (805) 326-5684.

Sincerely,

D. L. Oreolt
Manager Health, Safety and Environment
West Coast Production Division

SFD:tls

Enclosure

CBBY8920802 - 0001.0.0

SHEILA DOI IER - 805 - 32 - 5684

SHELL WESTERN 20/01 GOLDEN WEST

"Conclusions" JAYKIN
- "lateral extent not fully determined"
- in this area no contam. beyond 20'
  (25' level was clean)
  - "field observations" show extent to 23'
    - clay layers held up contam.
- "lateral limits to the northern & western parts may not be determined"
  - see Fig. 3
    - undetermined

[6-22 was when call, sampling on 6-26]

* - Call Regional Board
  - TALK TO LISA

- the ADMS report
  - PB-2 STEX-8

TVH = 1090
BTXE = B = .518
T = 4.06
X = 29.5
E = 3.83

SEE TABLE 1

- "Conclusion" Based on the analytical results of soils samples

- NEED
- ▽
- can accept certain sampler but need to be there
- ~~Data~~ spike sampling boring
-

Date: __/__/__

Case: I.D.:_____

[redacted]

Facility Name: _____ Resources affected: ____ Soil ____ Groundwater

Address: _____

Current Land Use _____ Future Land Use _____

Current Adjacent Land Use: _____ Future Adjacent Use _____

Resources affected: ✓ Soil ____ Groundwater

Highest Initial/Final Concentrations (mg/kg) of Each Contaminant in Soil:

(Name)	/(Conc.)	(Name)	/(Conc.)
(Name)	/(Conc.)	(Name)	/(Conc.)

Extent of Contamination (Lateral And Vertical) - Areal ____ x ____ x Vertical _____

Soil Type: _____ Deepest Boring _____

Depth To Groundwater: 35' Ft. (_____Measured By Borings, _____Estimated)

Hydrogeologic Conditions: _____Forebay _____ Pressure Zone

_____Hills _____ Near O.C.W.D. Recharge Zones

Special Conditions: _____

_____

Describe Cleanup Efforts: _____

_____

_____

_____

_____

[redacted]: _____

_____

_____

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

88UT10

April 25, 1989

Lisa Casner
Orange County Health Care Agency
Public Health
1719 West 17th Street
Santa Ana, CA

Dear Lisa:

Please find enclosed two sets of analytical data for Shell, Huntington Beach. The first set is for the site at 20th and Walnut, which we sampled on March 17, 1989. The results show non-detectable amounts of TPH and BTEX for all five samples and we would like to get approval to backfill the excavation.

The second set includes samples taken beneath the two 10,000 gallon tanks which were removed at 20101 Goldenwest on April 4, 1989.

Please feel free to contact me at (818) 967-4287 if you have any questions. Thank you.

Sincerely,

Brian Hayes

Brian Hayes, Environmental Engineer
AMAN ENVIRONMENTAL, INC.

BH/med
fl: Misc.let\Casner

100 South Citrus Avenue ■ Suite 2-B ■ Covina, CA 91723 ■ (818) 967-4287 ■ (818) 967-4288 ■ FAX (818) 332-1877

ITY OF ORANGE/HEALTH CARE AGEN
ENVIRONMENTAL HEALTH (714) 834-8020
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 258
DATE RECEIVED: 04-04-89
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 4-5-89
ANALYST: Lisa Newcombe Dierl

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: MAINTENANCE YARD
2 - 10000 GAL. TANKS
2101 Golden West HB
DATE OF COLLECTION: 04-04-89
SAMPLE COLLECTOR: J. KOSZTOWNY
TELEPHONE NO.: 818-967-4287

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
ST-EX-1	DoHS Approved TPH Method and EPA 8020	
ST-EX-1A	" "	" " " " " " "
ST-EX-2	" "	" " " " " " "
ST-EX-1	" "	" " " " " " "
GT-EX-2	" "	" " " " " " "
SP G5 1	" "	" " " " " " "

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	Mark Swyter	OC HCA	4-4-89 - 4-4-89
2.	John M. Kosztowny	GEOLOGIST AMAN ENV. INC.	4-4-89 - 4-4-89
3.	Edward Hum	Chemist	4-4-89 - 4-5-89
4.			-
5.			-
6.			-

CRS F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

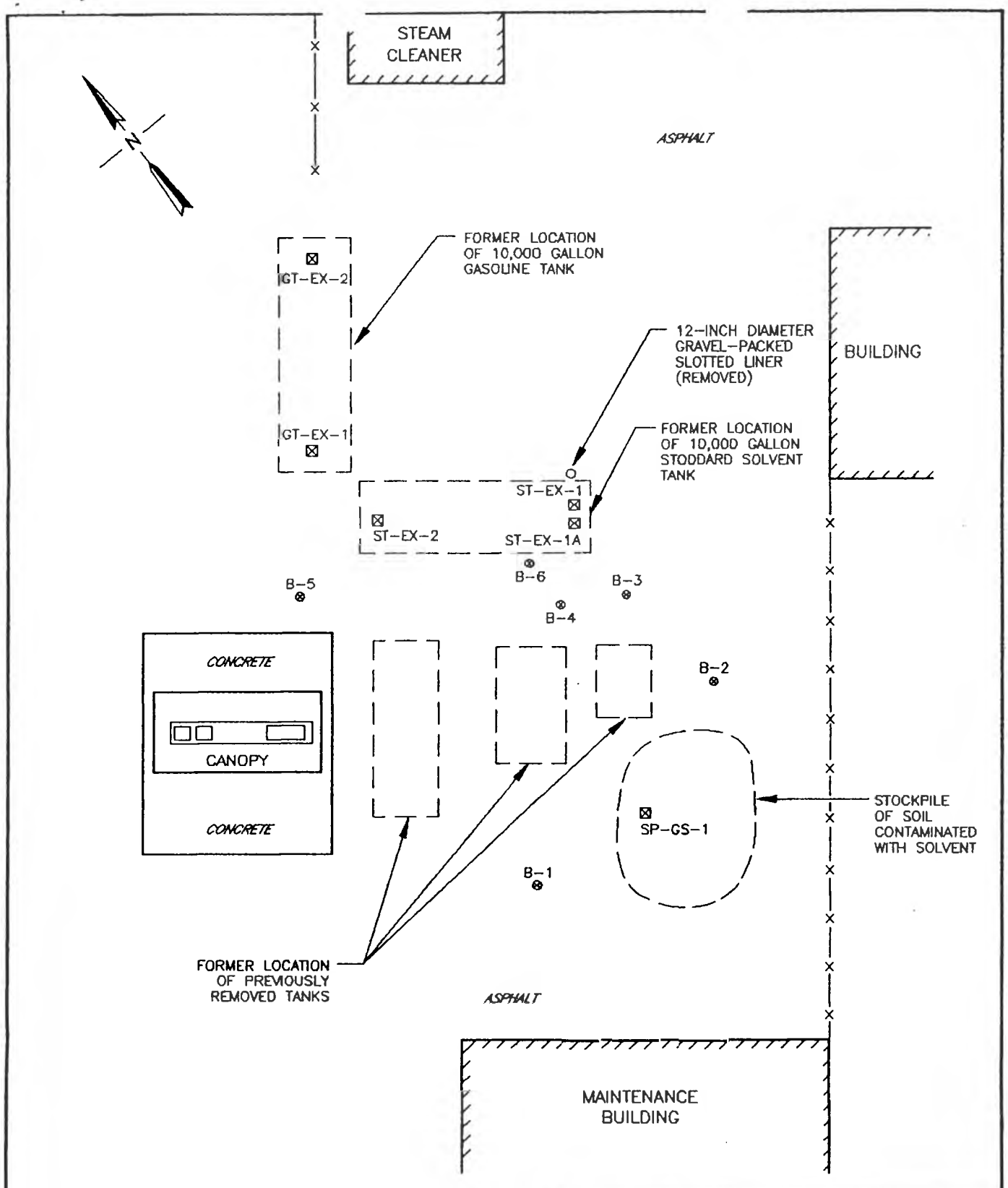
PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
88-7030	SHELL WESTERN E & P	JACK KOSZTOWNY Jack Kosztowny

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS 250 ml	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL/WET	OTHER	OTHER
ST-EX-1	04/04/89		SOIL	✓			X		X						
ST-EX-1A	4/4/89		STODDARD SOLVENT CALIB. RUSH	✓			X		X						
ST-EX-2	4/4/89			✓			X		X						
GT-EX-1	4/4/89		GASOLINE CALIB 24-HOUR TURNAROUND PLEASE.	✓			X		X						
GT-EX-2	4/4		PLEASE GIVE VERBAL RESULTS	✓			X		X						
SP-GS-1	4/4		STODDARD SOLV. CALIB BY 04-05-89	✓			X		X						

TOTAL NUMBER OF CONTAINERS: 6

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature) Jack Kosztowny	DATE/TIME 04-04-89 1430	RECEIVED BY: (Signature)

METHOD OF SHIPMENT:	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
			Glenn Hess	04-04-89 1430



LEGEND

B-3 ⊗ BORING LOCATION FROM PREVIOUS INVESTIGATION

ST-EX-2 ⊠ SOIL GRAB SAMPLE LOCATION

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

100 S. Citrus Ave
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

SITE PLAN & SAMPLE LOCATIONS

SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

FIGURE 2

By: Jack Kosztowny	Not to Scale	Date: 4/89

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
GT-EX-1	ND (.01)	ND (.01)	ND (.05)	ND (.05)
GT-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
ST-EX-1	0.97	11.66	6.78	59.3
ST-EX-1A	3.44	90.6	46.2	339
ST-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
SP-GS-1	0.83	6.17	6.24	52.2

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Newcombe Duro
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERRA TECH

Mobile Laboratory Specialists
(714) 842-6077

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA 8015

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	CONCENTRATION (mg/kg)
GT-EX-1	ND (1.0)
GT-EX-2	ND (1.0)
ST-EX-1	3550
ST-EX-1A	20700
ST-EX-2	ND (1.0)
SP-GS-1	4070

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Newcomb-Diers
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

8807 110

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

April 14, 1989

Ms. Lisa Casner
County of Orange Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Dear Ms. Casner:

SUBJECT: SAMPLE ANALYSIS UNDERGROUND STORAGE TANK REMOVALS
20101 GOLDENWEST STREET
HUNTINGTON BEACH OILFIELD

As a follow up to your telephone conservation with our Ms. Sheila Dormier on April 7, 1989, enclosed please find a copy of the grab sample lab analysis. The grab samples that were taken at depths of two and four feet beneath each end of the two underground storage tanks which were removed from the above location on April 4, 1989.

Mr. Mark Sutphin from the Orange County Environmental Health Department was present and directed sampling points.

As discussed Shell Western E&P Inc. (SWEPI) has contracted with AMAN Brothers Environmental to continue excavation at this site to further determine the vertical and lateral extent of contamination. As additional sample results are received they will be forwarded to you.

We will contact you 48 hours prior to site inspection.

If you have any questions regarding this matter please contact Sheila Dormier at (805) 326-5684.

Sincerely,

for D. L. Oreolt
Manager Safety & Environmental Conservation
West Coast Production Division

SFD:tls

Enclosure

COUNTY - 0041.0.0

cc: Mr. Mark Stuphin
County of Orange Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

TERRA TECH

Mobile Laboratory Testing

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA 8015

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID*	CONCENTRATION (mg/kg)
GT-EX-1	ND (1.0)
GT-EX-2	ND (1.0)
ST-EX-1	3550
ST-EX-1A	20700
ST-EX-2	ND (1.0)
SP-GS-1	4070

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Newcombe-Duro
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

FERR
TECH
Mobile Laboratory Specialists

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

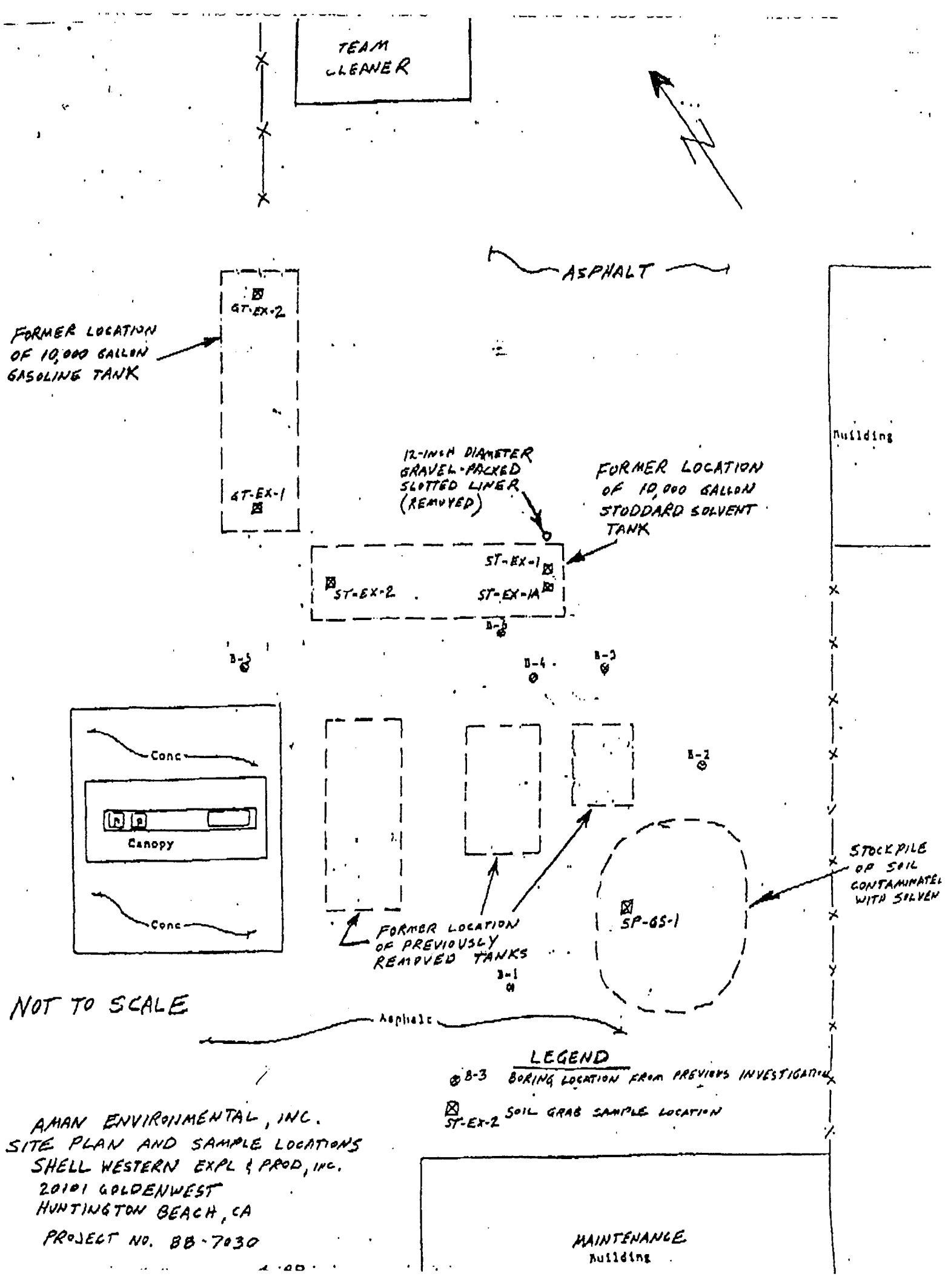
DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
GT-EX-1	ND (.01)	ND (.01)	ND (.05)	ND (.05)
GT-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
ST-EX-1	0.97	11.66	6.78	59.3
ST-EX-1A	3.44	90.6	46.2	339
ST-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
SP-GS-1	0.83	6.17	6.24	52.2

ND - Not detected at indicated level of detection.

Reviewed & Approved: [signature]
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.



AMAN ENVIRONMENTAL, INC.
SITE PLAN AND SAMPLE LOCATIONS
SHELL WESTERN EXPL & PROD, INC.
20101 GOLDENWEST
HUNTINGTON BEACH, CA
PROJECT NO. BB-7030

NTY OF ORANGE/HEALTH CARE AGEN
IRONMENTAL HEALTH (714) 834-80
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 258
DATE RECEIVED: 04-04-89
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 4-5-89
ANALYST: Lisa Newcombe Dierl

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: MAINTENANCE YARD
2 - 10000. GAL TANKS
2101 Goldenwest HB
DATE OF COLLECTION: 04-04-89
SAMPLE COLLECTOR: J. KOSZTOWNY
TELEPHONE NO.: 818-967-4287

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
ST-EX-1	Dolts Approved Test Method and EPA 8020	
ST-EX-1A	" "	" " " " " "
ST-EX2	" "	" " " " " "
GT-EX1	" "	" " " " " "
GT-EX2	" "	" " " " " "
SP-GS1	" "	" " " " " "

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	Mark Smith	OC HCA	4-4-89 . 4-4-89
2.	John N Kosztowny	GEOLOGIST AAAN ENV. INC.	4-4-89 . 4-4-89
3.	Edward Hsu	Chemist	4-4-89 . 4-5-89
4.			.
5.			.
6.			.

F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
88-7030	SHELL WESTERN E & P	JACK KOSZTOWNY Jack Kosztowny

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS 250 ml	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER
ST-EX-1	04/04/89		SOIL	✓			X		X					
ST-EX-1A	4/4/89		STODDARD SOLVENT CALIB. RUSH	✓			X		X					
ST-EX-2	4/4/89			✓			X		X					
GT-EX-1	4/4/89		GASOLINE CALIB 24-HOUR TURNAROUND PLEASE.	✓			X		X					
GT-EX-2	4/4		PLEASE GIVE VERBAL RESULTS	✓			X		X					
SP-GS-1	4/4		STODDARD SOLV. CALIB BY 04-05-89	✓			X		X					

TOTAL NUMBER OF CONTAINERS: 6

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY: (Signature)	DATE/TIME	RECIEVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature) Jack Kosztowny	DATE/TIME 4-04-89 1430	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature) Gilbert Hiller	DATE/TIME 04-04-89 1430

8001 110

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

April 14, 1989

Ms. Lisa Casner
County of Orange Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Dear Ms. Casner:

SUBJECT: SAMPLE ANALYSIS UNDERGROUND STORAGE TANK REMOVALS
20101 GOLDENWEST STREET
HUNTINGTON BEACH OILFIELD

As a follow up to your telephone conservation with our Ms. Sheila Dormier on April 7, 1989, enclosed please find a copy of the grab sample lab analysis. The grab samples that were taken at depths of two and four feet beneath each end of the two underground storage tanks which were removed from the above location on April 4, 1989.

Mr. Mark Sutphin from the Orange County Environmental Health Department was present and directed sampling points.

As discussed Shell Western E&P Inc. (SWEPI) has contracted with AMAN Brothers Environmental to continue excavation at this site to further determine the vertical and lateral extent of contamination. As additional sample results are received they will be forwarded to you.

We will contact you 48 hours prior to site inspection.

If you have any questions regarding this matter please contact Sheila Dormier at (805) 326-5684.

Sincerely,

for D. L. Oreolt
Manager Safety & Environmental Conservation
West Coast Production Division

SFD:tls

Enclosure

COUNTY - 0041.0.0

cc: Mr. Mark Stuphin
County of Orange Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

TERR. TECH

Mobile Laboratory Facility

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA 8015

DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	CONCENTRATION (mg/kg)
GT-EX-1	ND (1.0)
GT-EX-2	ND (1.0)
ST-EX-1	3550
ST-EX-1A	20700
ST-EX-2	ND (1.0)
SP-GS-1	4070

ND - Not detected at indicated level of detection.

Reviewed & Approved: Lisa Nee Gonzales-Diaz
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.

TERR /

TECH /

Mobile Laboratory Specialists

LABORATORY RESULTS

PREPARED FOR

AMAN BROTHERS ENVIRONMENTAL ENGINEERING
SHELL WESTERN E & P
20101 GOLDENWEST
HUNTINGTON BEACH, CA

ANALYSIS OF VOLATILE AROMATICS
EPA METHOD 8020

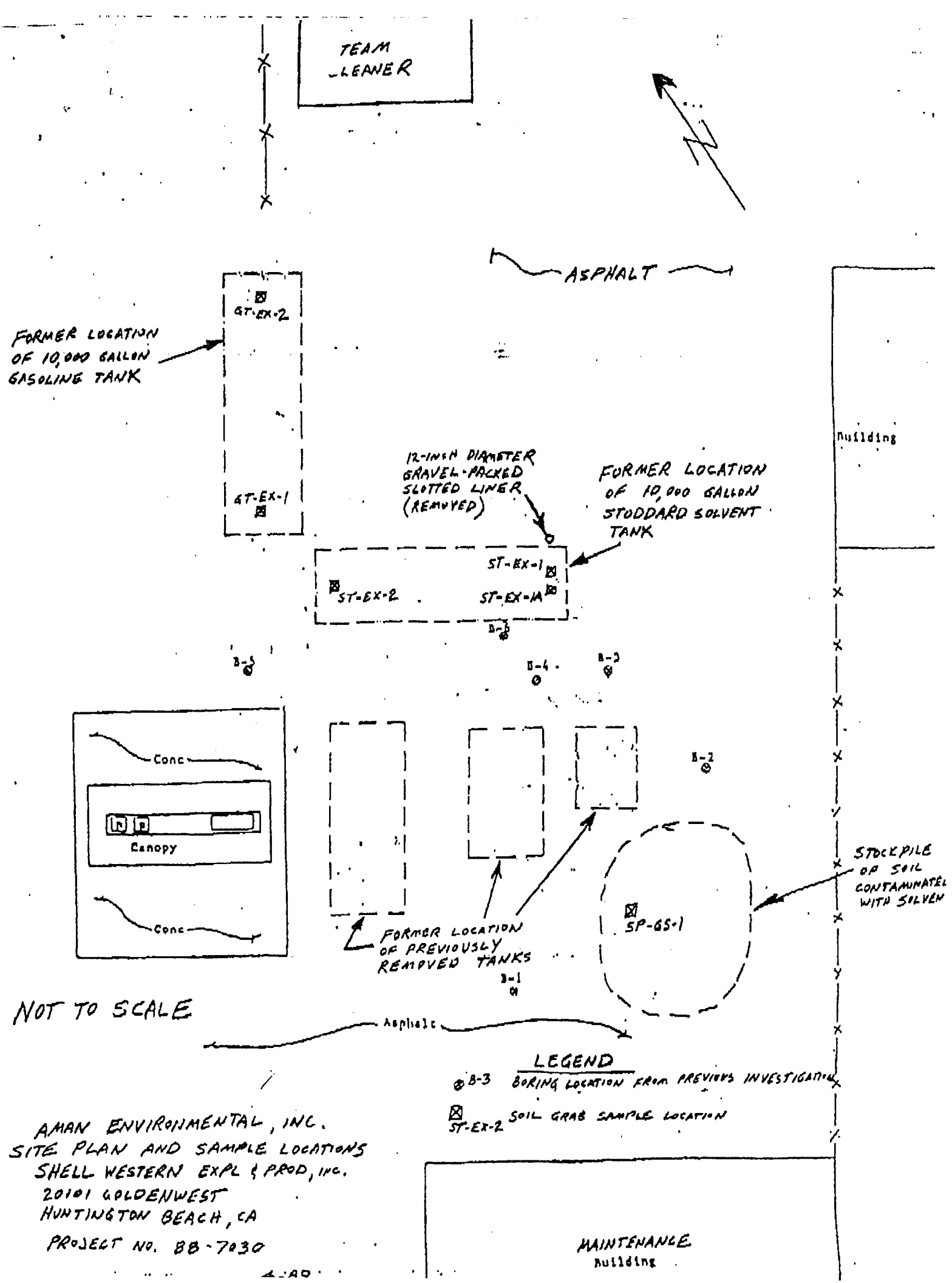
DATE RECEIVED: APRIL 4, 1989
DATE ANALYZED: APRIL 4, 1989
PROJECT NUMBER : 1058-2

SAMPLE ID#	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
GT-EX-1	ND (.01)	ND (.01)	ND (.05)	ND (.05)
GT-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
ST-EX-1	0.97	11.66	6.78	59.3
ST-EX-1A	3.44	90.6	46.2	339
ST-EX-2	ND (.01)	ND (.01)	ND (.05)	ND (.05)
SP-GS-1	0.83	6.17	6.24	52.2

ND - Not detected at indicated level of detection.

Reviewed & Approved: [signature]
Date: 4/7/89

Note: Samples were received in a chilled state, intact and with Chain-of-Custody attached.



AMAN ENVIRONMENTAL, INC.
SITE PLAN AND SAMPLE LOCATIONS
SHELL WESTERN EXPL & PROD, INC.
20101 GOLDENWEST
HUNTINGTON BEACH, CA
PROJECT NO. BB-7030

NTY OF ORANGE/HEALTH CARE AGEN
IRONMENTAL HEALTH (714) 834-80
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: 258
DATE RECEIVED: 04-04-89
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 4-5-89
ANALYST: Lisa Newcombe-Dierl

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: MAINTENANCE YARD
2 - 10000. GAL TANKS
2101 Golden West HB
DATE OF COLLECTION: 04-04-89
SAMPLE COLLECTOR: JACK J. KOSZTOWNY
TELEPHONE NO.: 818-967-4267

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
ST-EX-1	Both Appro	a TPH Method and EPA 8020
STEX-1A	" "	" " " " "
STEX2	" "	" " " " "
GT-EX1	" "	" " " " "
GTEX2	" "	" " " " "
SP651	" "	" " " " "

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	Mal Smith	DC HCA	4-4-89 . 4-4-89
2.	John M Kosztowny	GEOLOGIST AAAN ENV. INC.	4-4-89 . 4-4-89
3.	Edward Hamm	Chemist	4-4-89 . 4-5-89
4.			.
5.			.
6.			.

F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

CHAIN OF CUSTODY RECORD

AMAN BROTHERS
ENVIRONMENTAL ENGINEERING

100 South Citrus Avenue
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

PROJECT NO.	PROJECT NAME	SAMPLERS: (Signature)
88-7030	SHELL WESTERN E & P	JACK KOSZTOWNY Jack Kosztowny

SAMPLE NUMBER	DATE	TIME	SAMPLE DESCRIPTION/REMARKS	TYPE: GLASS 250 ml	TYPE: PLASTIC	TYPE: BRASS/SS TUBE	ANALYSIS: FUEL HC 8015	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTX 8020	ANALYSIS: VOLATILE ORGANICS 624/8240	ANALYSIS: LEAD	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CAM METALS TOTAL / WET	OTHER
ST-EX-1	04/04/89		SOIL	✓			X		X					
ST-EX-1A	4/4/89		STODDARD SOLVENT CALIB. RUSH	✓			X		X					
ST-EX-2	4/4/89			✓			X		X					
GT-EX-1	4/4/89		GASOLINE CALIB 24-HOUR TURNAROUND PLEASE.	✓			X		X					
GT-EX-2	4/4		PLEASE GIVE VERBAL RESULTS	✓			X		X					
SP-GS-1	4/4		STODDARD SOLV. CALIB BY 04-05-89	✓			X		X					

TOTAL NUMBER OF CONTAINERS: 6

RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELENQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELENQUISHED BY: (Signature) Jack Kosztowny	DATE/TIME 04-04-89 1430	RECEIVED BY: (Signature)
METHOD OF SHIPMENT:		SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature) Gilbert Hill	DATE/TIME 04-04-89 1430

68UT110

COUNTY OF ORANGE
HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
WASTE MANAGEMENT SECTION

☐ UST CLEANUP

☐ H.W. SITE CLEANUP

ACTIVITIES REPORT

Company Name: Shell Western Plan Check 88-634

Address: 20101 Golden West

City: Huntington Beach 92648

Contact Person(s): Bill Wilda Phone: (714) 969-3234

Date	Staff	ACTIVITIES/COMMENTS
12/30/88	MS	Plans approved for the removal of 4 usts Plan Chk 88-634
1/3/89	MS	two ust removal D 1000 Welded steel & D 550 Welded solvent tank w/ County inspector at site. Registered geologist Bill Reese #4475 Collected Samples and they will be accepted.
	MS	one sample showed 230 ppm TPH and was transferred to clean up section site is at 20th & Walnut in HB - FROM 1000 GAL TANK PULLED earlier - Different address due to extensive property line
4-4-89	MS	at site for the removal of two tanks on plan chk 88-63 10K
4-5-89	MS	Verbal lab results indicate site is contaminated
4-5-89	MS	Prop 65 filed transferred to clean up section
4-5-89	MS	Historical FMA Completed.
4-5-89	MS	3 USTs Remain at site.
1/11		Transferred to CU Group

COUNTY OF ORANGE
HCA/ENVIRONMENTAL HEALTH
PROPOSITION 65
NOTIFICATION REPORT
(714) 834-8402

PROP. 65 ID# _____

DART CASE ID# _____

DATE REPORTED: 4-5-89 TIME: 2:30 pm DESIGNATED EMPLOYEE REPORTING: Mark Leighton

REPORT SUBMITTED ON BEHALF OF ALL DESIGNATED EMPLOYEES OF WHAT AGENCY: OCHCA

DATE OF INCIDENT: 4-4-89 TIME: 12:00 SOURCE OF INFORMATION: at site tw witness soil sampling & tank removal

INCIDENT LOCATION: Shell Western 20101 Goldenwest Huntington Beach
DBA ADDRESS CITY

92648 (714) 969-3234 Bill Wilder
ZIP SITE TELEPHONE CO. CONTACT PERSON

DESCRIPTION/CAUSE OF INCIDENT: lab analysis of soil samples collected during tank removal Confirm site is contaminated

RESPONSIBLE PARTY - NAME: Shell Oil TELEPHONE: (714) 969-3234

IDENTIFICATION OF DISCHARGED WASTE:

CHEMICAL NAME/COMMON NAME	PHYSICAL STATE	VOLUME	HAZARDOUS PROPERTIES/LEGAL LIMITS
Gasoline or stoddard solvent	soil	?	300 ppm TWA/TLV

FIELD DATA/LAB RESULTS (INDICATE SOIL, GROUNDWATER, ETC.): soil & possibly ground water.

ENVIRONMENT AFFECTED: ROADWAY GROUNDWATER SEWER OR STORM DRAIN LAKE/STREAM/RIVER BAY/OCEAN
AIR (SOIL) FLOOD CHANNEL GROUND (PAVED) OTHER _____

LOCALE: RESIDENTIAL COMMERCIAL (INDUSTRIAL) OPEN AREA PUBLIC PROPERTY (PRIVATE PROPERTY) RURAL

DESCRIPTION OF EXTENT OF CONTAMINATION (LATERAL AND VERTICAL) Unknown Further site Characterization is required

NUMBER OF PERSONS REPORTEDLY INJURED: 0 NUMBER OF PERSONS RECEIVING MEDICAL TREATMENT: 0

WHERE?: _____

AGENCIES INVOLVED: _____

INCIDENT MITIGATED: YES (NO) DOES FURTHER ACTION NEED TO BE TAKEN: (YES) NO

ACTION: site Characterization & mitigation

REFERRED TO: - NAME/AGENCY: _____ DATE: _____ TIME: _____

CLEANUP CONDUCTED BY: _____ LEGAL INVESTIGATION: YES NO

AREA PHYSICALLY ACCESSIBLE TO THE PUBLIC: YES (NO)

PROXIMITY TO THE PUBLIC (HOMES, SCHOOLS, ETC.): ~ 500 feet ~~West~~ South east of Homes

FACTORS THAT ARE LIKELY TO CAUSE SUBSTANTIAL INJURY TO THE PUBLIC HEALTH OR SAFETY:

Contaminated soil & possibly groundwater

ADDITIONAL COMMENTS: _____

Any designated government employee who obtains information in the course of his official duties revealing the illegal discharge or threatened illegal discharge of a hazardous waste, that is likely to cause substantial injury to the public health and safety, must report such information within 72 hours to the Board of Supervisors and Health Officer or face up to $25,000 in fines and/or up to three years in jail (pursuant to Section 25180.7 of the Health and Safety Code). The information submitted in this report is based upon the best available information at the time the report was completed.

REPORT COMPLETED BY: Mark Seaton DATE: 4-5-89 TIME: 2:40

REPORT REVIEWED BY: _____ DATE: _____ TIME: _____

CONTACT FOR FURTHER INFORMATION: _____ TELEPHONE NO. (____) _____
(Lead Person/Agency)

9/16/88mr

DATE: 1-30-89

MEMO

F850-124.3

County of Orange

TO: File

DEPT/DIST:

FROM: M. Simpkins

SUBJECT: ~~Rel~~ Tank Pull 88-576 18501 Bend Blvd 92649

Verbal

Lab results for 20th & Walnut .230 ppm below Piping

According to Bill Reese. From Tank on property pulled earlier

1K Tank. Property is large - reason for different address

Than on file.

ORANGE COUNTY ENVIRONMENTAL HEALTH

UNDERGROUND TANK CLEANUP FORM

Shell Western — 20101 Golden West
Facility Name — Address

PCH
Cross Streets — Site Telephone Number

Owner — Address

Bill Wilder
Contact Person — Telephone Number

Operator (If different than owner) — Telephone Number

Aman Bros — Jack Kostowny — 818 967-4283
Consultant (Contractor) — Contact Name — Telephone Number

	Size	Const. Mat.	Mat. Stored		Size	Const. Mat.	Mat. Stored
Tank 1	10K	steel	stoddard Solvent	Tank 4			
Tank 2	10K	steel	gasoline	Tank 5			
Tank 3				Tank 6			

Depth To Groundwater

Fire Depart. personnel on-site: Scott Freeman

Ambient air readings on field instrument: NO sight gas odor.

Proposition 65 required:

Other information:

4-5-89 Per Verbal Lab Results soils is Contaminated upto 20,000 ppm TPH & 3.5 ppm Benzene. MS

REV:05/04/87

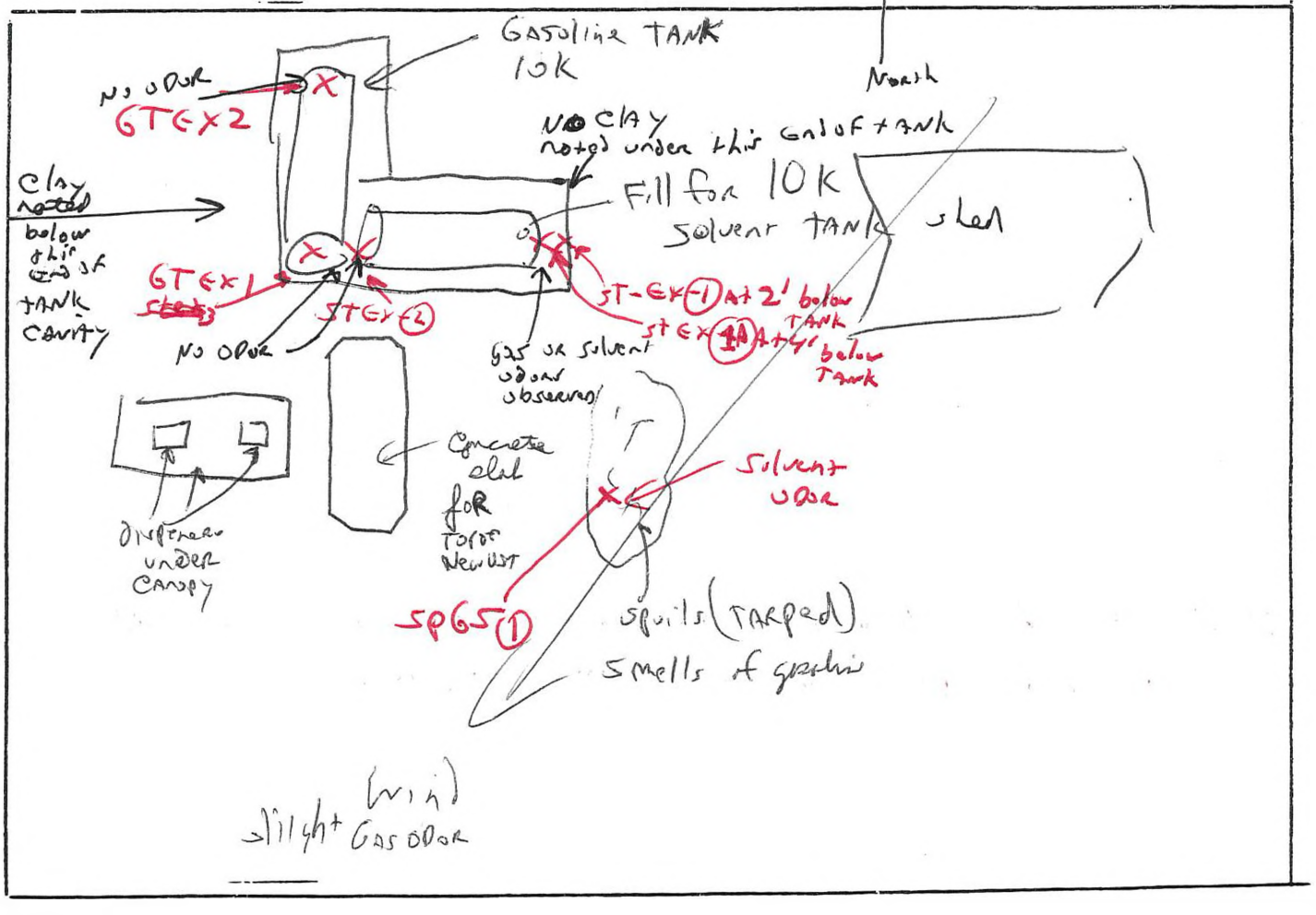
FIELD ACTIVITY DESCRIPTION

LUST #: _____ FACILITY NAME: Shell Western DATE: 4-4-89

I.R. #: _____ ADDRESS: 20101 Golden West INSPECTOR: MS

_____ HB 92648 TIME: _____

Field Activity: At site for tank removal plan chck # Removal was handled by Nieto & Sons Tanks will go to ANR in Ontario Consultant at site Jack Kostowny of Aman Bros. (818) 967-4287 6 samples collected for DOHS TPH and EPA 8020 Analysis a solvent/gasoline odor was smelled in the spoils pile and at East end of solvent tank gas tech did not operate (Low Battery) backfill is a med sand the native soil below the tanks was a peaty clay except for the East end of the Solvent tank where the native soil was observed to be a fine beach sand.



REV: 05/04/87

(ITY OF ORANGE/HEALTH CARE AGENC
ENVIRONMENTAL HEALTH (714) 834-802.
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: _____

_____

_____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS

7. CHAIN OF CUSTODY

1.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
2.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
3.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
4.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
5.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
6.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES

CRS F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

Plan dept 88-634 130-89

Bill Reese Registered Geologist #4475
almond Bros

two Stoddard Solvent tanks

1500 gal at 20101 Glenbervie
Sample collected look clean

811 WALNUT between 20th / 21st

1000 stoddard looked ~~clean~~ Contaminated
Bill Reese stated visible Contamination observed

2 samples collected below each tank

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

December 29, 1988

Mr. Mark Sutphin
County of Orange Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Dear Mr. Sutphin:

SUBJECT: UNDERGROUND STORAGE TANK REMOVALS
ACCOUNT NUMBER 20
HUNTINGTON BEACH OILFIELD

In response to your telephone inquiry regarding our letter to you dated November 14, 1988. Shell Western E&P Inc. (SWEPI) has contracted with AMAN Bros. Inc. to remove the two 10,000 gallon underground storage tanks located at the Huntington Beach Oilfield.

Application to remove these tanks will be submitted this week. Taking into consideration permit time, we anticipate tank removals to begin no later than January 16, 1989. We will notify you in writing of the removal commencement date.

After the tanks are removed SWEPI will be operating a total of three (3) underground storage tanks at their 20101 Goldenwest St, location.

If you have any questions regarding this matter please contact Sheila Dormier at (805) 326-5684.

Sincerely,

D. L. Oreolt
Manager Environmental Conservation
West Coast Production Division

SFD:tls

CBBY8834705 - 0001.0.0

RANGE COUNTY ENVIRONMENTAL HEA

UNDERGROUND TANK CLEANUP FORM

Shell Western

Facility Name _____ Address _____

Cross Streets _____ Site Telephone Number _____

Owner _____ Address _____

Contact Person _____ Telephone Number _____

Operator (If different than owner) _____ Telephone Number _____

Consultant (Contractor) _____ Contact Name _____ Telephone Number _____

Tank 1 _____ Tank 4 _____
Size Const. Mat. Mat. Stored Size Const. Mat. Mat. Stored

Tank 2 _____ Tank 5 _____
Size Const. Mat. Mat. Stored Size Const. Mat. Mat. Stored

Tank 3 _____ Tank 6 _____
Size Const. Mat. Mat. Stored Size Const. Mat. Mat. Stored

Depth To Groundwater _____

Fire Depart. personnel on-site: _____

Ambient air readings on field instrument: _____

Proposition 65 required: _____

Other information: _____

REV:05/04/87

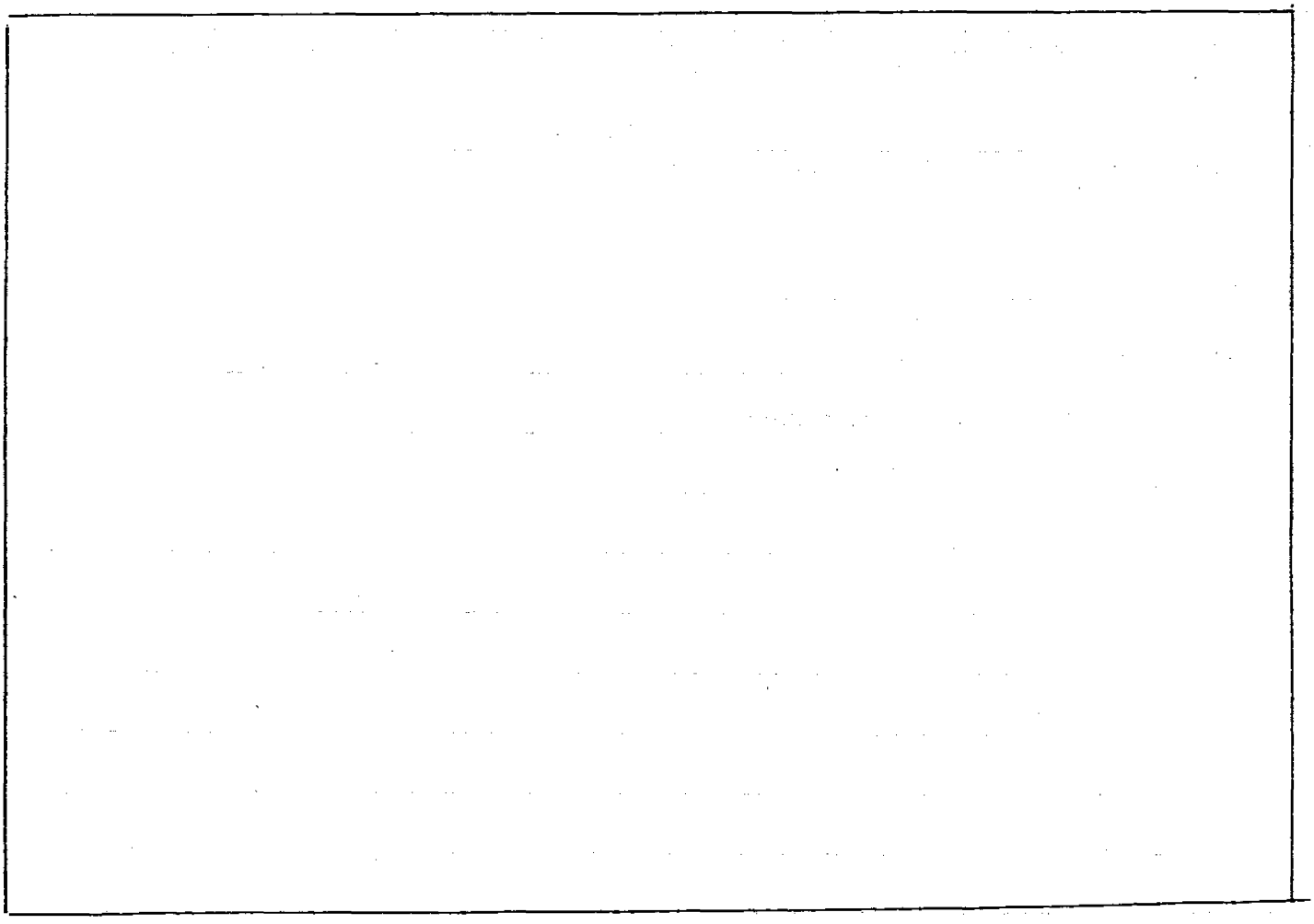
FIELD ACTIVITY DESCRIPTION

LUST #: _____ FACILITY NAME: Shell Interstate DATE: 11/10/88

I.R. #: _____ ADDRESS: _____ INSPECTOR: _____

_____ TIME: _____

Field Activity: S 1 & 2 - taken from spoils.



REV:05/04/87

C ITY OF ORANGE/HEALTH CARE AGENC
ENVIRONMENTAL HEALTH (714) 834-8020
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: _____

_____

_____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS

7. CHAIN OF CUSTODY

1.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES
2.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES
3.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES
4.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES
5.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES
6.	_____	_____	_____ - _____
	SIGNATURE	TITLE	INCLUSIVE DATES

CRS F272-9.1531 WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

Coast Contractors, Inc.

1301 E. SPRING ST. • LONG BEACH, CA 90806 • (213) 595-6300

July 6, 1988

Mr. Bill Wilder
Shell Western E&P Inc.
Huntington Beach Operations
20101 W. Goldenwest Street
Huntington Beach, CA 92648

Subject: Proposal for Subsurface Investigation at Shell Western E&P Inc. site at Huntington Beach

Dear Mr. Wilder;

We were pleased to meet with your representative recently to discuss a site assessment program for Shell Western E&P Inc. at Huntington Beach. We propose to prepare a work plan and subsurface investigation in conjuction with Jaykim Engineers, Inc. We envision that the work required by the County of Orange Health Care Agency can be performed in two phases:

PHASE I - SUBMITTAL OF A WORK PLAN

The following tasks would be performed under Phase I:

1. Review available groundwater reports and geologic maps. Identify local water wells and establish the groundwater depth at the site.

2. Conduct site recoonnaissance and review available drawings to locate the underground storage tanks and excavation pits. Construct a scaled site plot plan.

3. Develop a work plan to establish the number of soil borings, the proposed depth of the borings, and a soil sampling strategy for the subsurface investigation.

4. Submit the work plan to the Health Care Agency for approval.

We propose to provide Phase I service for a fee of $2,380.00.

PHASE II - CONDUCT SUBSURFACE INVESTIGATION

After approval of the Phase I work plan, a drilling and soil sampling program will be conducted to determine the extent of the contamination at the site. We propose to perform the following sit essessment work under Phase II:

1. Conduct 2 days of drilling and soil sampling at the site around the existing excavation. We envision that drilling six borings at the site will be adequate to determine the lateral and vertical extent of the contamination. the depth of the soil borings will be determined in the field based on monitoring of duplicate soil samples with a Bacharach Instrument TLV Sniffer combustible vapor detector. However, the boreholes are not envisioned to be drilled to depths greater than 40 feet in this work. If during drilling groundwater is encountered, the boring will then be drilled to 20 feet below the water level and a water well will be developed. The data generated from the soil sampling and laboratory analysis program will be employed to deterrmine the vertical and lateral extent of the contamination.

2. Undisturbed soil samples will be collected at 5 foot intervals to the bottom of the borings in stainless steel tubes, inside a Modified California Sampler.

3. As the contamination at the site has been caused by gasoline and Stoddard solvent, we propose to analyze the the samples by the EPA Method 8015. The contaminated soil samples and the bottom samples will be analyzed individually, while the non-contaminated soil samples will be composited and analyzed. + 8020

(No

4. Prepare a report of the investigation for Shell Western E. & P. Inc.to forward to the County fo Orange Health Care Agency.

We propose to perform the Phase II services on a time and material basis not to exceed $14,145.00, with subcontractors billed at cost plus fifteen percent. If the Health Care Agency requests work which has a significant effect on the above cost, we will provide you with a revised time and materials cost before any Phase II work is begun.

For a site free of contamination, the Phase II investigation and report should complete the work to the satisfaction of the Health Care Agency. If there is contamination at the site, recommendations for site mitigation and remedial action will be submitted to the Health Care Agency. The remediation work will be performed at additional cost to the proposed program.

COST SUMMARY

The following is a cost summary of the costs for the proposed subsurface investigations:

Phase I	$ 2,380.00
Phase II	$14,145.00
Total	$16,525.00

LIMITATIONS

Coast Contractors, Inc., will make a reasonable effort during the plan review and field reconnaissance to accurately locate tanks, piping, and utilities. However, due to the age of the sites and variability of construction procedures, we cannot be held responsible for any subsurface obstructions encountered during the drilling or installation operations. Therefore, all the proposed drilling and excavation locations must be approved by the client or his authorized agent prior to commencement of work. Furthermore, the client shall bear the expense of repairing any damaged facilities except as the result of negligence on the part of Coast Contractors, Inc., or their subcontractors.

SUMMARY

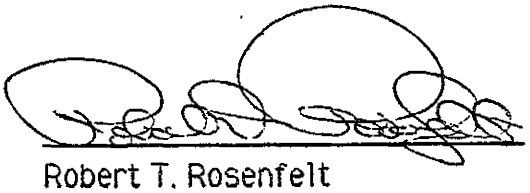
Thank you for the opportunity to submit this proposal for developing a work plan and conducting a subsurface investigation at the Shell Western E&P, Inc. Company facility in Huntington Beach. Coast Contractors, Inc., is avvvailable to begin this work upon notice to proceed. We look forward to working with you on this project.

Enclosed is a copy of a contract for you to sign and return to us.

If you have any questions or need additional information, please feel free to call us at (213)595-6300.

Sincerely,

Coast Contractors, Inc.



Robert T. Rosenfelt
President

RTR:ts

Encl.

AUTHORIZATION

This proposal constitutes a firm offer to conduct the scope of services described herein. this offer shall be valid for 30 days from the proposal date. One copy of this document is to be signed and returned to Coast Contractors, Inc., prior to commencement of the preparation of the work paln and subsurface investigation. Signature of this document constitutes authorization of the scope of services outlined herein for the specified fee.

_____ _____

Authorized Signature Date

COUNTY OF ORANGE
HEALTH CARE AGENCY

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

1725 WEST 17TH STREET
SANTA ANA, CA 92706

TELEPHONE: 714/834-7601

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702

PUBLIC HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL HEALTH

June 3, 1988

Don Inman
Shell Western E & P Inc.
20101 Goldenwest Blvd.
Huntington Beach, CA 92648

Subject: Soil Contamination Located At 20101 Goldenwest Blvd., Huntington Beach

Dear Mr. Inman:

Based on inspections and field tests conducted on May 20, 1988, it has been determined that stoddard solvent/gasoline contaminated soil is present at the subject location.

This Agency, which is authorized to enforce both the State Hazardous Waste and Underground Tank Laws and Regulations, (Chapters 6.5 and 6.7 of the California Health and Safety Code and Titles 22 and 23 of the California Code of Regulations) directs Shell Western to develop and submit a site assessment workplan to this office within thirty (30) days of receipt of this letter. The plan must include the proposed methods to obtain the following information:

a. Identification of the nature, source and estimated volume of released contaminants.

b. Identification of the lateral and vertical extent of soil and groundwater contamination and the concentration of contaminants.

c. Proposed number and location of samples and borings.

d. Proposed laboratory analyses and methods.

e. Depth to groundwater and groundwater gradient.

f. Description of the soil profile.

g. Hydrogeological setting.

h. Present and potential future uses of groundwater and surface water that may be affected by the contaminated material, including the location and use of all wells within a 2,000 foot radius of the site.

Field investigation may begin only after the plan has been approved. This office must be notified 48 hours in advance of sampling. After completion of the investigation, a report outlining the findings from the site assessment investigation and the proposals for site mitigation and remedial action must be submitted to this office for approval. Remedial actions must include the following as applicable:

1. Free undissolved product must be removed from groundwater.

2. Proposed method of dissolved product removal must be approved by the appropriate Regional Water Quality Control Board and must be included in the reports submitted to this Agency.

3. Demonstrate to the satisfaction of this office that the contaminated soil, if left in place, would not present a potential public health or environmental hazard. This risk assessment evaluates the potential for movement of contaminants into adjoining soils or groundwater and the associated public health or environmental effects.

4. Reduce contamination to acceptable levels. A proposal describing the treatment process must be submitted to this office for approval prior to initiation of such process. In addition, permits must be obtained from all appropriate regulatory agencies.

5. Monitoring of contaminant fate and movement in soil and groundwater. Monitoring may include periodic sampling of soil and periodic sampling of properly placed wells with annual reevaluation of well locations. A report describing the proposed investigations must be submitted to this office for review.

6. Remove the contaminated soil. The contaminated soil should be removed to a nondetectable level or to natural background. If this cannot be achieve, options three (3), four (4), and five (5) must be employed.

Until cleanup is complete, update reports shall be submitted to this Agency every three (3) months or at a more frequent interval as specified.

If any material to be removed is hazardous waste, as defined in the California Health and Safety Code, Chapter 6.5 or as identified in the California Code of Regulations, Title 22, Division 4, Chapter 30, then the use of a registered hazardous waste hauler is required and a photocopy of every manifest signed by the receiving facility must be forwarded to this office for verification of proper disposal. Section 25298(c)(4) of the California Health and Safety Code states that no person shall close an underground storage tank unless the person demonstrates to the satisfaction of the local agency that no significant soil contamination has occurred. Violation of this requirement is subject to a civil penalty of Five Thousand Dollars ($5,000.00) per day.

Please be advised that all information received by Environmental Health is a matter of public record unless it has been clearly indicated on each page of the submittal that the information is confidential and is not to be released.

If you have any questions regarding this matter, please contact me at (714)834-8186.

Very truly yours,

Steve Harris

Steve Harris
Hazardous Waste Specialist
Waste Management Section
Environmental Health

SH:dsw

Attachments
cc: Scott Freeman, Huntington Beach Fire Department
Steven Overman, Santa Ana Regional Water Quality Control Board

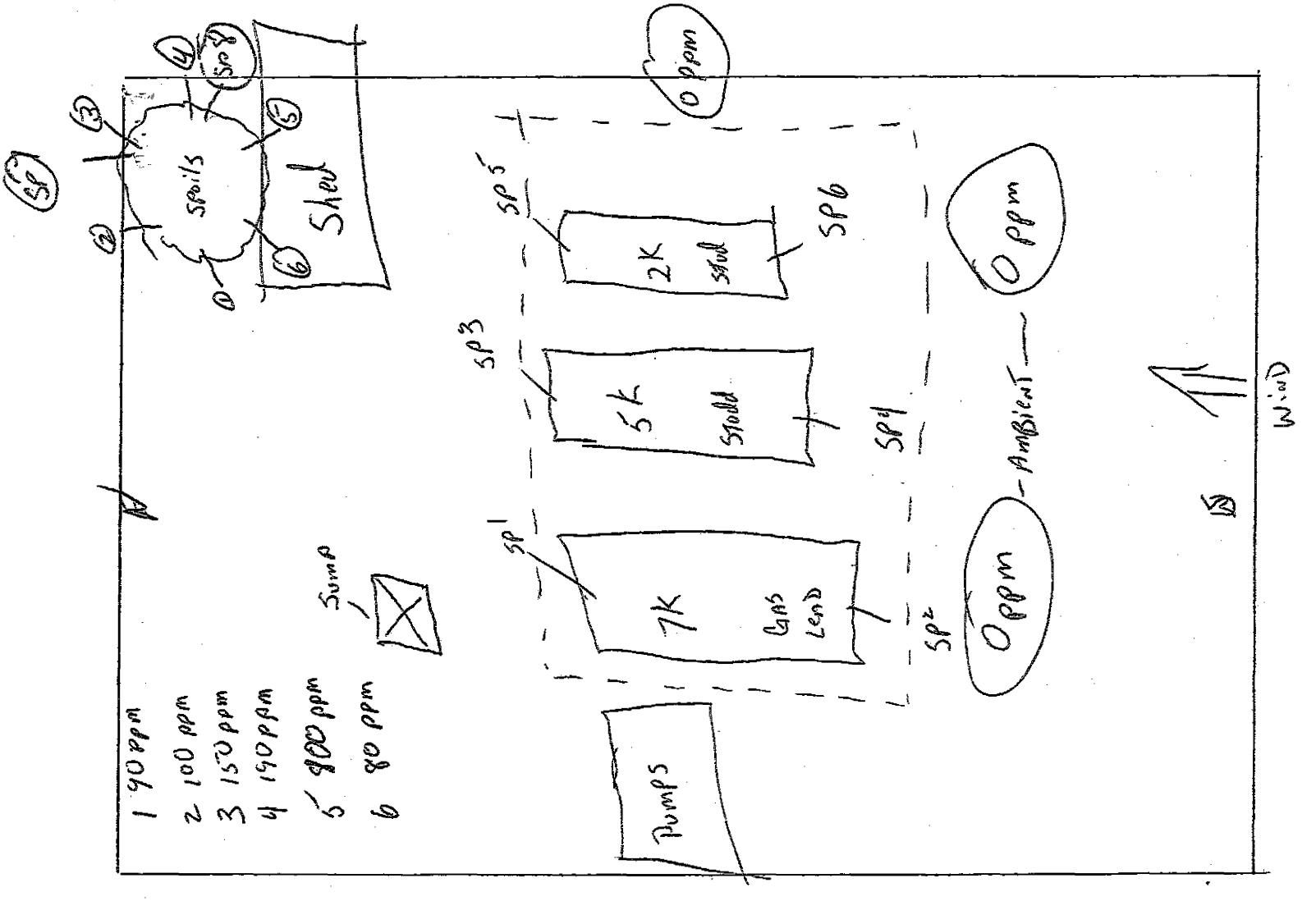
FIELD ACTIVITY DESCRIPTION

LUST #: 88UT110 FACILITY NAME: Shell Oil E. & P. DATE: 5/20/88

I.R. #: _____ ADDRESS: 20101 Golden West INSPECTOR: 121

Huntington Beach TIME: 1145

Field Activity: NO Ambient Air Readings were noted. Sandy Soils, Some staining on 7,000 gal* tank in fair Shape - minor pits. All 3 Tanks had a hole cut in Them for access to the inside for rinse. The 7k & 2k were filled w/ H_2O for a few years. Tanks will go to AMR. There is a Concrete Sump which contains product. 5k Tank NO visible holes. 2K TANK No Visible holes All look in fair - Good Shape. Samples will go to Associated Labs



REV:05/04/87

ORANGE COUNTY ENVIRONMENTAL HEALT

UNDERGROUND TANK CLEANUP FORM

Shell Oil E & P. 20101 Golden West
Facility Name Address

Pacific Coast Hwy
Cross Streets Site Telephone Number

Shell Oil
Owner Address

Don Innan 969-3326
Contact Person Telephone Number

Operator (If different than owner) Telephone Number

Coast Contractor Pat McDonagh (213)595-6300
Consultant (Contractor) Contact Name Telephone Number

	Size	Const. Mat.	Mat. Stored		Size	Const. Mat.	Mat. Stored
Tank 1	7,000	Steel	Lead Gas	Tank 4			
Tank 2	5,000	Steel	Stoddard Solv	Tank 5			
Tank 3	2,000	Steel	Stoddard Solv	Tank 6			

Depth To Groundwater 40'

Fire Depart. personnel on-site: Scott Freeman

Ambient air readings on field instrument: 0 ppm

Proposition 65 required: pending

Other information: Sp 6 >500 ppm, ~~2000~~ 45 LEL (Peak)

Sp 4 20 LEL

Sp 2 15 LEL

Sp 1 35 LEL

Sp 3 70 LEL

Sp 5 35 LEL

REV:05/04/87

COUNTY OF ORANGE/HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH (714) 834-8020
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
WASTE MANAGEMENT SECTION

CHAIN OF CUSTODY

1. ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.

2. PLEASE WRITE LEGIBLY.

3. ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.

4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: _____

_____

_____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
SP 7	8015	Soil pile 4 Ext
SP 8	8015	Soil pile 4 Ext

7. CHAIN OF CUSTODY

1.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
2.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
3.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
4.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
5.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
6.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES

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COUNTY OF ORANGE/HEALTH CARE AGENCY
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4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: _____

DATE RECEIVED: _____

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ___ COUNTY SEAL(S) INTACT: ___

CONTAINER IN GOOD CONDITION: ___

DATE ANALYSIS COMPLETED: _____

ANALYST: _____

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: _____

_____

_____

DATE OF COLLECTION: _____

SAMPLE COLLECTOR: _____

TELEPHONE NO.: _____

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
	8015 8020	
	8015 8020	
	8015	
	8015	
	8015	
	8015	

7. CHAIN OF CUSTODY

1.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
2.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
3.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
4.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
5.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES
6.	_____ SIGNATURE	_____ TITLE	_____ - _____ INCLUSIVE DATES

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4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: F48752
DATE RECEIVED: 5-20-88
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 5-26-88
ANALYST: M.T. B.A. S.L.

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: Shell Western
20101 Goldenwest
Huntington Bch, CA.
DATE OF COLLECTION: 5-20-88
SAMPLE COLLECTOR: Patricia McDonough
TELEPHONE NO.: 213-595-6300

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED (Total Lead)	SAMPLE DESCRIPTION/COMMENTS
SP1	8015, 8020	N. END of 7k TANK
SP2	8015 8020	S. END of 7k TANK
SP3	8015	N END of 5k TANK
SP4	8015	S END of 5K TANK
SP5	8015	N END of 2k TANK
SP6	8015	S. END of 2k TANK

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	Scott Wold	HAZ WASTE Spec	5-20 . 5-20-88
2.	Patrick M'Donag	Sales Eng	5-20 . 5-20-88
3.	C. Hall	ASSOC. CAD	5-20-88 .
4.			.
5.			.
6.			.

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COUNTY OF ORANGE/HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH (714) 834-8020
1725 WEST 17TH STREET, P.O. BOX 355
SANTA ANA, CA 92702
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4. TO BE COMPLETED BY LABORATORY ANALYST

LAB NO.: P48760
DATE RECEIVED: 5-20-88
SAMPLE(S) CONDITION (PLEASE CHECK):
CHILLED: ✓ COUNTY SEAL(S) INTACT: ✓
CONTAINER IN GOOD CONDITION: ✓
DATE ANALYSIS COMPLETED: 5-26-88
ANALYST: B. A. S-L

5. TO BE COMPLETED BY SAMPLE COLLECTOR

SAMPLE LOCATION: Shell Western
20101 Goldenwest
Huntington Bch
DATE OF COLLECTION: 5-20-88
SAMPLE COLLECTOR: Patrick McDonagh
TELEPHONE NO.: 213-595-6300

6. SAMPLE INFORMATION

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS
SP 7	8010 8020	Spoils pile N END
SP 8	8010 8020	Spoils pile E END

7. CHAIN OF CUSTODY

	SIGNATURE	TITLE	INCLUSIVE DATES
1.	D. Wild	Haz. Waste Spec	5/20 - 5/20/88
2.	G. McDonagh	Sales Eng.	5/20 - 5/20/88
3.	C. Weldt	LASOC-CAS	5-26-88 -
4.			-
5.			-
6.			-

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

Coast Contractors, Inc. (2646)
1301 E. Spring Street
Long Beach, Ca. 90806

Attn: Terri Loomer

LAB NO. F48752

REPORTED 05/27/88

SAMPLE Soil

RECEIVED 05/20/88

IDENTIFICATION Shell Western, 20101 Goldenwest, H.B.

BASED ON SAMPLE As Submitted Chilled and with County Seals Intact

	Total Hydrocarbons (8015) (mg/kg)
SP-1	1,450
SP-2	ND<10
SP-3	20,300
SP-4	31
SP-5	2,360
SP-6	ND<10

	SP-1	SP-2
Benzene (mg/kg)	ND<0.05	ND<0.05
Toluene (mg/kg)	12	ND<0.05
Ethyl Benzene (mg/kg)	10	ND<0.1
Total Xylene (8020) (mg/kg)	185	ND<0.1
Total Lead (7421) (mg/kg)	5.90	2.87

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

cc: O.C. Health Care Dept.

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TESTING & CONSULTING
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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

Coast Contractors, Inc. (2646)
1301 E. Spring Street
Long Beach, Ca. 90806

Attn: Terri Loomer

LAB NO. F48760

REPORTED 05/27/88

SAMPLE Soil

RECEIVED 05/20/88

IDENTIFICATION Shell Western, 20101 Goldenwest, H. B.

BASED ON SAMPLE As Submitted with County Seals Intact

	SP-7	SP-8
Total Hydrocarbons (8015) (mg/kg)	132	800
Benzene (mg/kg)	ND< 0.05	ND< 0.05
Toluene (mg/kg)	ND< 0.05	ND< 0.05
Ethyl Benzene (mg/kg)	ND< 0.1	ND< 0.1
Xylene - Para	ND< 0.1	ND< 0.1
(8020) - Meta	ND< 0.1	ND< 0.1
(mg/kg)- Ortho	ND< 0.1	ND< 0.1

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

cc: O.C. Health Care Dept.

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

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Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

DATE : 06/28/2017

INSPECTOR : JP

Facility Information

Name: California Resources Corp dba Oxy USA Inc.
Address: 20101 Goldenwest St., Huntington Beach, CA 92648
Permit No.:
Person Contacted: Johnny Hardisty

☐ Changes

Type of Inspection

☒ Process/routine
☐ Compliance/enforcement
☐ Investigation/special project
☐ Other:

Operations

Day of Week	Start Time	End Time

Shift	Start Time	End Time	Avg. # of Employees

Inspection Operation Period:

☐ Changes

FACILITY: California Resources Corp dba Oxy USA Inc. INSPECTOR: JP DATE: 06/28/2017

Wastewater Treatment

Wastewater treated through Knockout tanks, oil separators, and re-injected into the ground.

Chemical Storage

Various spill containment and secondary structures for chemical storage, no exposed sewer connections observed.

Waste Handling and Disposal

Re-inject water into ground, Stormwater to ocean as needed

Observation and Comments

California Resources Corp dba Oxy USA (FID#3636) visited to check business status, wastewater generating operations, and permit considerations. Facility identified through Wastehauler Station generator check, as they are frequent haulers to station and from an Oil Field.

Contact, Johnny Hardisty, stated the facility has been in Huntington since 1910, and the Sanitation District had to reimburse CRC for incorrect User fees several years ago. Yard does not have any sewer fees, only portable toilets and septic tanks. Company confirmed that 6 septics and some portable toilets are pumped every 2 weeks or so.

Site is a large oil field with over 100 active wells and 100 idle wells. Approximately 155 barrels per day of wastewater is re-injected into the ground, 4,500 bpd of oil is produced. Wet gas to scrubber and the H2S scavenger for running the gas powered turbines as three components of production is gas, oil, and water. Heat exchanger heats water from 150 - 170 deg. F for emulsification to occur which helps separate oil and water. Re-inject water has minimal oil (as this is product) and is <5ppm oil.

Company to remain permit exempt at this time, but informed contact to notify OCSD should operations change.

JP 6.27.17.

FACILITY: California Resources Corp dba Oxy USA Inc. INSPECTOR: JP DATE: 06/28/2017

☐ Yes ☒ No SMR Discussed?

☐ Yes ☒ No Meter Details Verified? (Number of Digits/Reels, Unit, Multiplier)

☐ Yes ☒ No Cyanide on Premises?

☐ Yes ☒ No Slug Discharge Plan Verified and Requirements Acceptable?

If no, explain why

☐ Yes ☐ No Evaluated Potential Stormwater/Runoff Connections and/or discharge to sewer, as well as any Rainwater Diversion Svstem methods and controls (manual/automated)?

Explain:

Meter Readings

Meter ID	Serial #	Description	Req?	Start Reading	End Reading	Units
			N			

Recent Flow Methodologies

Sample Location:

Type	Effective Date	Formula

Recent Flows

Sample Location:

Equipment: (); installed on:

Reading Start Date/Time	Reading End Date/Time	Reading Type	Reading Value	Source

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 136267
MANIFEST NO : 17-08303
INSPECTOR : JC
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 2076697
Sample Type: GRAB
Sample Start Date: 07/19/2018 Time: 14:57
Sampling Point: 143
Sample End Date: 07/19/2018 Time: 14:57
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	GRAB	ND		1.0				0.00	
Chromium	Y	GRAB	ND		35.0				0.00	
Copper	Y	GRAB	0.5		25.0				0.00	
Lead	Y	GRAB	ND		10.0				0.00	
Nickel	Y	GRAB	ND		10.0				0.00	
Silver	Y	GRAB	ND						0.00	
Zinc	Y	GRAB	0.92		50.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 135847
MANIFEST NO : 17-08301
INSPECTOR : KE
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 2066051
Sample Type: GRAB
Sample Start Date: 06/08/2018 Time: 13:06
Sampling Point: 143
Sample End Date: 06/08/2018 Time: 13:06
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	GRAB	ND		1.0				0.00	
Chromium	Y	GRAB	ND		35.0				0.00	
Copper	Y	GRAB	0.36		25.0				0.00	
Lead	Y	GRAB	ND		10.0				0.00	
Nickel	Y	GRAB	ND		10.0				0.00	
Silver	Y	GRAB	ND						0.00	
Zinc	Y	GRAB	1.34		50.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 117773
MANIFEST NO : 16-05945
INSPECTOR : MN
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 1956074
Sample Type: COMPOSITE
Sample Start Date: 12/14/2016 Time: 14:11
Sampling Point: 143
Sample End Date: 12/14/2016 Time: 14:11
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	COMPOSITE	ND		1.0				0.00	
Chromium	Y	COMPOSITE	ND		35.0				0.00	
Copper	Y	COMPOSITE	ND		25.0				0.00	
Lead	Y	COMPOSITE	ND		10.0				0.00	
Nickel	Y	COMPOSITE	ND		10.0				0.00	
Silver	Y	COMPOSITE	ND						0.00	
Zinc	Y	COMPOSITE	4.13		50.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 120099
MANIFEST NO : 16-06080
INSPECTOR : JC
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 1965677
Sample Type: GRAB
Sample Start Date: 02/09/2017 Time: 14:30
Sampling Point: 143
Sample End Date: 02/09/2017 Time: 14:30
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	GRAB	ND		1.0				0.00	
Chromium	Y	GRAB	ND		35.0				0.00	
Copper	Y	GRAB	3.21		25.0				0.00	
Lead	Y	GRAB	ND		10.0				0.00	
Nickel	Y	GRAB	ND		10.0				0.00	
Silver	Y	GRAB	ND						0.00	
Zinc	Y	GRAB	8.24		50.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
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Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 111012
MANIFEST NO : 11-29898
INSPECTOR : MN
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 1918388
Sample Type: COMPOSITE
Sample Start Date: 06/15/2016 Time: 13:38
Sampling Point: 143
Sample End Date: 06/15/2016 Time: 13:38
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	COMPOSITE	ND		1.000				0.00	
Chromium	Y	COMPOSITE	ND		2.000				0.00	
Copper	Y	COMPOSITE	1.12		25.000				0.00	
Lead	Y	COMPOSITE	ND		10.000				0.00	
Nickel	Y	COMPOSITE	ND		10.000				0.00	
Silver	Y	COMPOSITE	ND						0.00	
Zinc	Y	COMPOSITE	2.76		50.000				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 111011
MANIFEST NO : 11-29899
INSPECTOR : MN
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 1918387
Sample Type: COMPOSITE
Sample Start Date: 06/15/2016 Time: 12:13
Sampling Point: 143
Sample End Date: 06/15/2016 Time: 12:13
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	COMPOSITE	ND		1.000				0.00	
Chromium	Y	COMPOSITE	ND		2.000				0.00	
Copper	Y	COMPOSITE	0.46		25.000				0.00	
Lead	Y	COMPOSITE	ND		10.000				0.00	
Nickel	Y	COMPOSITE	ND		10.000				0.00	
Silver	Y	COMPOSITE	ND						0.00	
Zinc	Y	COMPOSITE	1.13		50.000				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 114797
MANIFEST NO : 16-01267
INSPECTOR : MN
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 1939496
Sample Type: COMPOSITE
Sample Start Date: 09/28/2016 Time: 12:57
Sampling Point: 143
Sample End Date: 09/28/2016 Time: 12:57
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	COMPOSITE	ND		1.0				0.00	
Chromium	Y	COMPOSITE	ND		35.0				0.00	
Copper	Y	COMPOSITE	2.97		25.0				0.00	
Lead	Y	COMPOSITE	ND		10.0				0.00	
Nickel	Y	COMPOSITE	0.07		10.0				0.00	
Silver	Y	COMPOSITE	ND						0.00	
Zinc	Y	COMPOSITE	4.15		50.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
(714)962-2411

Resource Protection Division

Agency Sampling
WASTEWATER ANALYSIS REPORT

[redacted]

REPORT DATE : 04/25/2024
MONITORING ID : 137907
MANIFEST NO : 18-03535
INSPECTOR : KE
SAMPLE TYPE : Waste Hauler

Your wastewater discharge was sampled and the results are as follows:

LAB NO: 2083297
Sample Type: GRAB
Sample Start Date: 08/22/2018 Time: 14:24
Sampling Point: 143
Sample End Date: 08/22/2018 Time: 14:24
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
Cadmium	Y	GRAB	ND		1.0				0.00	
Chromium	Y	GRAB	ND		35.0				0.00	
Copper	Y	GRAB	ND		25.0				0.00	
Lead	Y	GRAB	ND		10.0				0.00	
Nickel	Y	GRAB	ND		10.0				0.00	
Zinc	Y	GRAB	0.41		50.0				0.00	

Your wastewater discharge was sampled and the results are as follows:

LAB NO:
Sample Type: GRAB
Sample Start Date: 08/22/2018 Time: 14:24
Sampling Point: 143
Sample End Date: 08/22/2018 Time: 14:24
Location: Truck

Actual Discharge : No Meter Reading

Mass Emmission Rate Flow Base : N/A
Effective :

Constituents	Compliance Sample	Sample Method	Discharge mg/L	Discharge Lbs/Day	Permit Limit mg/L	Permit Limit Lbs/Day	Over Limit mg/L	Over Limit Lbs/Day	Violation Percent Over	Violation Type
pH (Standard Units)	Y	GRAB	7.29		6.0 - 12.0				0.00	

Please address any questions concerning this report to Jonathon Powell at 714-593-7420 or JPowell@ocsan.gov.

Jamie Malpede
Source Control Supervisor

18-04181

7-611323

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

OCT18

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 2101 GoldenWest City. HB Zip Code: 92646

COUNTY. OC MAJOR CROSSROADS: P.C.H and GoldenWest

Date of pick-up. 10-18-18 Time of pick-up _____ AM/PM pH of Load _____

Volume 3600 gallons picked-up Measuring method Bubbles

TYPE OF WASTE
- ☒ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other

Company Name: _____ Telephone No.: ( ) _____

Name of Responsible Party at Site. _____

Address: _____ City: _____ Zip Code: _____

COUNTY. _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up _____ AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted]

10-18-18
Date

Resource Protection/Guard Initials _____

* Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

19-03166

pH = 8.09
T = 28.1°C

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MAY17 14:38

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☐ Yes ☐ No If no, how many different generators? see list

For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 20101 Goldenwest City. HB Zip Code. 92648

COUNTY. OC MAJOR CROSSROADS: Goldenwest and P.C.H

Date of pick-up. 5/17/19 Time of pick-up _____ AM/PM pH of Load _____

Volume 3600 gallons picked-up Measuring method Bubbles

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other

Company Name. _____ Telephone No.. ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up _____ AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use. I am aware of the conditions and requirements of the Wastehauler Permit. Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 5/17/19 Date

Resource Protection/Guard Initials. _____

* Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

19-03990

JL 18 '19 14:04

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 2010 Golden West City: HB Zip Code: 92648

COUNTY OC MAJOR CROSSROADS: Golden West and P. C. H

Date of pick-up 7-18-19 Time of pick-up _____ AM/PM pH of Load 7

Volume 36 CC gallons picked-up Measuring method. BUBBLES

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other

Company Name _____ Telephone No.: ( ) _____

Name of Responsible Party at Site: _____

Address _____ City: _____ Zip Code: _____

COUNTY _____ MAJOR CROSSROADS _____ and _____

Date of pick-up _____ Time of pick-up _____ AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 7/18/19 Date

Resource Protection/Guard Initials _____

Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

19-01548
MAR 30 19 8 57

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

(Print) First Name Last Name

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address 20101 Golden West City: HB Zip Code: 92646

COUNTY: OC MAJOR CROSSROADS Golden West and PCH

Date of pick-up 3/30/19 Time of pick-up. _____ AM/PM pH of Load _____

Volume 360 gallons picked-up Measuring method Bubbles

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other

Company Name: _____ Telephone No. ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY. _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up _____ AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 3/30/19
Date

Resource Protection/Guard Initials: _____

* Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

19-00166

6.88/20.3

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

(Print) First Name Last Name

FEB11 12:47

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____

For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 2010 Golden West City. HB Zip Code: 92646

COUNTY: OC MAJOR CROSSROADS: Golden West and P.C.H

Date of pick-up 2-11-19 Time of pick-up _____ AM/PM pH of Load: _____

Volume 3,600 gallons picked-up Measuring method Bubbles

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Company Name: _____ Telephone No.: ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY: _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up: _____ Time of pick-up _____ AM/PM pH of Load: _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit. Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted]

2-11-19
Date

Resource Protection/Guard Initials _____

18-06339

8.65 / 14.7 XK

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MIXED WASTE TYPES IS PROHIBITED.

JAN19 08:06

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? see list

For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 20101 Goldenwest City: HB Zip Code: 92646

COUNTY: OC MAJOR CROSSROADS: P.C.H and Goldenwest

Date of pick-up 1-19-19 Time of pick-up: _____ AM/PM pH of Load _____

Volume 3,000 gallons picked-up Measuring method Bubbles

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Company Name: _____ Telephone No.: ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY. _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up. _____ Time of pick-up: _____ AM/PM pH of Load _____

Volume: _____ gallons picked-up Measuring method: _____

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 1-19-19 Date

Resource Protection/Guard Initials XK

18-05978

8.31

09:36

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 20101 GOLDENWEST City: H. B. Zip Code: 92648

COUNTY: O.C. MAJOR CROSSROADS: P.C.H. and GOLDENWEST

Date of pick-up: 12/31/18 Time of pick-up: 9:30 (AM)/PM pH of Load _____

Volume 1900 gal gallons picked-up Measuring method _____

TYPE OF WASTE
- ☒ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Company Name: _____ Telephone No.: ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY: _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up: _____ Time of pick-up _____AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 12/31/18
Wastehauler Signature Date

Resource Protection/Guard Initials JMC

18-04628

KW 7371 23.9

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

NOV19 07:46

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

TYPE OF WASTE
- ☒ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other

Address: 20101 Golden West City: HB Zip Code: 92648

COUNTY: OC MAJOR CROSSROADS: Golden West and P.C.H

Date of pick-up. 11-19-18 Time of pick-up. _____ (AM)/PM pH of Load _____

Volume: 3,600 gallons picked-up Measuring method BUBBLES

Company Name: _____ Telephone No.: ( ) _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Name of Responsible Party at Site: _____

Address: _____ City. _____ Zip Code: _____

COUNTY: _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up _____ AM/PM pH of Load _____

Volume _____ gallons picked-up Measuring method. _____

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant. I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit. Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 11-19-18
Date

Resource Protection/Guard Initials VE

Waste must be pre-approved by OCSD's General Manager Requests must be received in writing.

10844 E Ellis Ave, Fountain Valley, CA 92708

22-02777

PH° 7.26
Temp° 24.5 C

OC SAN
ORANGE COUNTY SANITATION DISTRICT

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OC San) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____
For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 20101 GOLDEN WEST City: HUNTINGTON BEACH Zip Code: 92648
COUNTY: ORANGE MAJOR CROSSROADS: WALNUT AVE and PCH
Date of pick-up: 6-7-22 Time of pick-up: 12:30 pm AM/PM pH of Load: _____
Volume: 3600 gallons picked-up Measuring method: BUBBLES

TYPE OF WASTE
- ☒ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Company Name: _____ Telephone No.: ( ) _____
Name of Responsible Party at Site: _____
Address: _____ City: _____ Zip Code: _____
COUNTY: _____ MAJOR CROSSROADS: _____ and _____
Date of pick-up: _____ Time of pick-up: _____ AM/PM pH of Load: _____
Volume: _____ gallons picked-up Measuring method: _____

TYPE OF WASTE
- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OC San's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OC San's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit. Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OC San regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 6-7-22
Date

Resource Protection/Guard Initials: NC

* Other types of waste must be pre-approved by OC San's General Manager. Requests must be received in writing.

19-04390

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied.

[redacted]

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____

For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 2101 Golden West City: HB Zip Code: 92648

COUNTY: OC MAJOR CROSSROADS: Golden West and P.C.H

Date of pick-up 8/8/19 Time of pick-up _____ AM/PM pH of Load _____

Volume: 360 C gallons picked-up Measuring method BUBBLES

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☒ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

Company Name: _____ Telephone No.: ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code: _____

COUNTY: _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up: _____ AM/PM pH of Load _____

Volume: _____ gallons picked-up Measuring method _____

TYPE OF WASTE

- ☐ Septic Tank
- ☐ Cesspool
- ☐ FSE-Grease
- ☐ Chemical Toilet
- ☐ Brine Water
- ☐ Other *

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 8/8/19 Date

Resource Protection/Guard Initials: _____

* Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

19-05357

pH: 7.61
29.7°C

WASTEHAULER MANIFEST FORM

To be completed by the wastehauler before entry to the Orange County Sanitation District's (OCSD) facility. Please print – incomplete or illegible forms will not be accepted and access to the wastehauler station will be denied

[redacted]

Sept 11:45

MIXED WASTE TYPES IS PROHIBITED.

Is waste from a single source/generator? ☒ Yes ☐ No If no, how many different generators? _____

For multiple waste sources/generators, fill in generator information below for **each** of the waste sources/generators. If more than 2 generators, attach another manifest form.

DISCHARGE SOURCE / WASTE GENERATOR:

[redacted]

Address: 20101 GOLDENWEST City: HB Zip Code. 92648

COUNTY. OC MAJOR CROSSROADS. GOLDENWEST and P C. H

Date of pick-up 9/12/19 Time of pick-up _____ AM/PM pH of Load._____

Volume 3600 gallons picked-up Measuring method BUBBLES

TYPE OF WASTE

- [X] Septic Tank
- [ ] Cesspool
- [ ] FSE-Grease
- [ ] Chemical Toilet
- [ ] Brine Water
- [ ] Other

Company Name: _____ Telephone No. ( ) _____

Name of Responsible Party at Site: _____

Address: _____ City: _____ Zip Code:_____

COUNTY: _____ MAJOR CROSSROADS: _____ and _____

Date of pick-up _____ Time of pick-up _____AM/PM pH of Load _____

Volume._____ gallons picked-up Measuring method _____

TYPE OF WASTE

- [ ] Septic Tank
- [ ] Cesspool
- [ ] FSE-Grease
- [ ] Chemical Toilet
- [ ] Brine Water
- [ ] Other

I, the below-signed Wastehauler, declare the following under penalty of perjury To the best of my knowledge I have accurately described the type, quantity, and source/generator of all waste that I now request to dispose of at OCSD's treatment plant I was personally informed by the owner, owner's agent, or occupants of the property where this waste was received or have personal knowledge that this waste contains NO hazardous or industrial waste as defined in the OCSD's Wastewater Discharge Regulations The truck(s) used to transport this waste was free of all materials characterized by State and Federal law as hazardous waste or substance at the time of said use I am aware of the conditions and requirements of the Wastehauler Permit Furthermore, I understand that failure to accurately describe the information above or failure to comply with the Wastehauler Permit and/or any applicable OCSD regulations may result in the immediate suspension of the Wastehauler Permit and/or other penalties as may be allowed by law

[redacted] 9/12/19 Date

Resource Protection/Guard Initials BD

* Other types of waste must be pre-approved by OCSD's General Manager Requests must be received in writing

Travis Knight

From: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Sent: Tuesday, July 15, 2025 11:06 AM
To: Katherine Thomas
Cc: Travis Knight
Subject: RE: Public Records Request - 20101 Goldenwest St, Huntington Beach

Good morning,

After careful review of our records, we show we have no files for the following site:
5615 Ocean Vista, Huntington Beach

However, responsive records for **20101 Goldenwest St, Huntington Beach** can be found on GeoTracker using this link.

We also show that we have Storm Water information for the following site:
20101 Goldenwest St, Huntington Beach
These records may be accessed online by:
• Clicking this link
https://smarts.waterboards.ca.gov/smarts/PublicDataAccess/PublicNoiSearch.xhtml
• Enter street number into "Facility/Site Street:" Field
• Enter the site city (e.g. "Irvine") into "Facility/Site City:" Field
• Click on relevant black underlined links to view attachments

Additional electronic Storm Water information can be accessed online by:
• Clicking this link
https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/CiwqsReportServlet?reportName=facilityAtAGlance&inCommand=reset
• Enter street number only into "Enter a physical address:" field, and/or:
• Enter a keyword in the facility's name (e.g. "Heifer") into "Enter a facility name:" field, or leave blank
• Click on relevant blue underlined links under "Place ID" column to view the reports

Additionally, we show we have hardcopy files available for review for: **20101 Goldenwest St, Huntington Beach**. Our file review hours are Tuesday through Friday 9:00 AM - 4:00 PM. Please contact us through this inbox with your preferred date and time if you would like to schedule an appointment to review files. Your appointment is confirmed once you have received an email from this inbox stating the date and time of your appointment. If, within 2 weeks, we do not receive a response to schedule an appointment, this file review request will be considered closed.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

From: Katherine Thomas <kthomas@langan.com>
Sent: Monday, July 7, 2025 4:46 PM
To: WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
Cc: Travis Knight <tknight@langan.com>
Subject: Public Records Request - 20101 Goldenwest St, Huntington Beach

Caution: External Email. Use caution when clicking links or opening attachments. When in doubt, contact DIT or use the Phish Alert Button.

Hello,

Langan Engineering is conducting a Phase I Environmental Site Assessment (ESA) of the property located at 20101 Goldenwest Street and 5615 Ocean Vista in Huntington Beach, California. In support of our Phase I ESA, Langan is requesting any information or copies of files regarding environmental conditions at the site, such as environmental reports, environmental permits, building permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs) or Aboveground Storage Tanks (ASTs), Leaking Underground Storage Tanks (LUSTs), asbestos abatement, and any other environmental reports that your department may have.

Thank you

Katherine Thomas
Staff Scientist

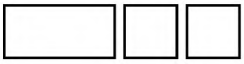
LANGAN

Direct: 213.314.8140
Mobile: 626.244.4533
File Sharing Link

Phone: 213.314.8100 Fax: 213.314.8101
1960 East Grand Street
Suite 585
El Segundo, CA 90245
www.langan.com

Technical Excellence ● Practical Experience ● Client Responsiveness

CALIFORNIA NEW JERSEY NEW YORK CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON OREGON NEVADA ATHENS CALGARY DUBAI LONDON PANAMA



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California Resources Production Corporation (CERSID: 10446451)

Facility Information **Accepted Feb 27, 2025**

Submitted on 2/12/2025 2:45:00 PM by *Desmond Fuzee* of California Resources Production Corp (Long Beach)
Submittal was ***Accepted*** on 2/27/2025 4:28:06 PM by Sarah Orndorff
Comments by regulator: Facility Information ACCEPTED.

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Mar 4, 2025**

Submitted on 2/12/2025 2:45:00 PM by *Desmond Fuzee* of California Resources Production Corp (Long Beach)
Submittal was ***Accepted*** on 3/4/2025 9:37:44 AM by Alexandra Escobedo
Comments by regulator: THE HAZARDOUS MATERIALS INVENTORY HAS BEEN ACCEPTED. ON-SITE VERIFICATION WILL OCCUR DURING YOUR ROUTINE INSPECTION. NOTIFY THIS AGENCY THROUGH CERS IF THERE IS ANY CHANGE IN OWNERSHIP, ANY CHANGES IN CHEMICALS QUANTITIES OVER 100% OR IF THERE ARE ANY NEW CHEMICALS BEING STORED AT YOUR FACILITY. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Hazardous Material Inventory (42)
- Site Map (Official Use Only)
  - *Highlands Lease BEP Sheet 1* (Adobe PDF, 564KB)
  - *Highlands Lease BEP Sheet 2* (Adobe PDF, 372KB)
  - *State Lease BEP* (Adobe PDF, 1780KB)

Emergency Response and Training Plans **Accepted Mar 4, 2025**

Submitted on 2/12/2025 2:45:00 PM by *Desmond Fuzee* of California Resources Production Corp (Long Beach)
Submittal was ***Accepted*** on 3/4/2025 9:41:38 AM by Alexandra Escobedo
Comments by regulator: THE EMERGENCY RESPONSE AND TRAINING PLANS HAVE BEEN ACCEPTED. FOR EMPLOYEE TRAINING PLANS, PLEASE SELECT 'STORED AT FACILITY' UNDER DOCUMENT OPTIONS AS OPPOSED TO 'PROVIDED ELSEWHERE IN CERS'. ON-SITE VERIFICATION OF EMPLOYEE TRAINING RECORDS FOR INITIAL AND ANNUAL REFRESHER TRAINING WILL OCCUR DURING YOUR ROUTINE INSPECTION. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 434KB)
- Employee Training Plan
  - Provided In Submital Element: Emergency Response and Training Plans

California Environmental Reporting System (CERS) — Business Activities

Site Identification

California Resources Production Corporation
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10446451
EPA ID Number
CAD981443807

Submittal Status

Submitted on 2/12/2025 by *Desmond Fuzee* of California Resources Production Corp (Long Beach)
Submittal was ***Accepted***; Processed on 2/27/2025 by *Sarah Orndorff* for Orange County Environmental Health
Comments by regulator: Facility Information ACCEPTED.

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**Yes**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

California Resources Production Corporation
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10446451

Submittal Status

Submitted on 2/12/2025 by *Desmond Fuzee* of California Resources Production Corp (Long Beach)
Submittal was ***Accepted***; Processed on 2/27/2025 by *Sarah Orndorff* for Orange County Environmental Health
Comments by regulator: Facility Information ACCEPTED.

Identification

Terry Junkins

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date	
(562) 714-3687	(562) 999-8638				
Dun & Bradstreet			**SIC Code**		**Primary NAICS**
			1311		

Facility/Site Mailing Address

1 World Trade Center Suite 1500
LONG BEACH, CA 90831

Primary Emergency Contact

Huntington Beach Tank Farm
Title
Huntington Beach Tank Farm

Business Phone	24-Hour Phone	Pager Number
(714) 969-3201	[redacted]	

Owner

SoCal Holding LLC
(562) 999-8200
1 World Trade Center Suite 1500
LONG BEACH, CA 90831

Secondary Emergency Contact

Terry Junkins
Title
Facility OperationsSupervisor

Business Phone	24-Hour Phone	Pager Number
(562) 999-8638	(562) 714-3687	

Billing Contact

Desmond Fuzee
(661) 654-1019 Desmond.Fuzee@crc.com
1 World Trade Center Suite 1500
LONG BEACH, CA 90831

Environmental Contact

Desmond Fuzee
(661) 654-1019 Desmond.Fuzee@crc.com
1 World Trade Center Suite 1500
LONG BEACH, CA 90831

Name of Signer	Signer Title	Document Preparer
Desmond Fuzee	Sr. HSE Advisor	Desmond Fuzee

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees

Facility ID
FA0058859

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease - Map Location 18 (CSA 1)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
Combustible Liquid, Class III-B, Toxic, Corrosive	**SCAV Treat 1119** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**165** Storage Container: Tote Bin Days on Site: 180	**165**	165 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Diethanolamine	85%		111-42-2
Combustible Liquid, Class II, Toxic, Corrosive	**Waxtreat 3635** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**135** Storage Container: Tote Bin Days on Site: 180	**135**	135 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Solvent Naphtha, petroleum, light arom. 1,2,4 Trimethlybenzene Xylenes Solvent Naphtha Cumene	50% 25% 20% 5% 1%		64742-95-6 95-63-6 1330-20-7 64742-94-5 98-82-8
Oxidizing, Class 1, Toxic, Corrosive	**OXW5102 Oxidizer** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**500** Storage Container: Tote Bin Days on Site: 180	**500**	500 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Oxidizer - Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	sodium hypochlorite sodium hydroxide	20% 5%		7681-52-9 1310-73-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease - Map Location 18 (CSA 1)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Combustible Liquid, Class II	**CRW132 Corrosion Inhibitor** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**200** Storage Container: Plastic/Non-metalic Drum Days on Site: 365	**100**	200 Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	methanol Quaternary ammonium compound alkylpyridine salts Ammon	30% 10% 10%		67-56-1 Trade Secret Trade Secret
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class II	**Diesel Fuel** CAS No 68476-34-6 Map: 18	**Gallons** State: Liquid Type: Pure	**500** Storage Container: Aboveground Tank Days on Site: 365	**500**	500 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Specific Target Organ Toxicity - Health Aspiration Hazard				
	CLW3075 Cleaner CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**520** Storage Container: Tote Bin Days on Site: 365	**300**	520 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
Combustible Liquid, Class III-B	**BPR45450** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Plastic/Non-metalic Drum Days on Site: 365	**55**	110 Pressue: Ambient Temperature: Ambient	Waste Code		essential oils	5%		

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease - Map Location 18 (CSA 1)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Corrtreat 7196	**Gallons**	**110**	**55**	110		- Physical Flammable	coco dimethyl benzyl ammonium chloride	5%		61789-71-7
	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code		Methanol	5%		67-56-1
Corrosive	Map: 18	Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 1**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Xtra-Lube	**Gallons**	**1320**	**330**	1320						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type			Temperature						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 10**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	DMO8298X	**Gallons**	**940**	**250**	940		- Physical Flammable	Light aromatic naphtha	40%		64742-95-6
Flammable Liquid, Class I-C, Corrosive, Toxic	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code	- Health Carcinogenicity	1,2,4 Trimethlybenzene	30%		95-63-6
	Map: 10	Type: Mixture	Days on Site: 365		Temperature: Ambient		- Health Acute Toxicity	1,3,5 Trimethloybenzene	10%		108-67-8
							- Health Skin Corrosion Irritation	Xylene	10%		1330-20-7
							- Health Serious Eye Damage Eye Irritation	1,2,3 Trimethloybenzene	5%		526-73-8
							- Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 11**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	RBW6560 Water Clarifier	**Gallons**	**250**	**250**	250			No hazardous ingredient			
	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code					
	Map: 11	Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 12**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
Combustible Liquid, Class III-B	**Engine Oil** CAS No Map: 12	**Gallons** State: Liquid Type: Mixture	**440** Storage Container: Tote Bin Days on Site: 365	**330**	440 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Respiratory Skin Sensitization	highly refined mineral oil (C15-C50)	99%		Mixture

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 13**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	GEO LP-701	**Gallons**	**230**	**55**	230		- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				
	CAS No	State: Liquid	Storage Container: Other		Pressue	Waste Code					
	Map: 13	Type: Mixture			Temperature						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 14**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	CHLOR BRITE CAS No 7681-52-9 Map: 14	**Gallons** State Liquid Type	**80** Storage Container Other	**5**	80 Pressue Temperature	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 15**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	AP Solvent	**Gallons**	**300**	**300**	300		- Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Substituted amine (1)	75%		Trade Secret
								Substituted amine (2)	16%		Trade Secret
Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code		Water	3%		7732-18-5
	Map: 15	Type: Pure	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 16**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	Triethylene Glycol	**Gallons**	**310**	**250**	310		- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization	Triethylene glycol	100%		112-27-6
								Diethylene glycol	5%		111-46-6
Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code					
	Map: 16	Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 17**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	UCARSOL GT-10 ANTIFOAM	**Gallons**	**80**	**80**	80		- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Polypropylene Glycol Monobutyl Ether			9003-13-8
	CAS No	State: Liquid	Storage Container: Aboveground Tank		Pressue	Waste Code		Water			7732-18-5
	Map: 17	Type: Mixture			Temperature			Poly(propylene glycol)			25322-69-4
								Siloxanes and silicones, dimethy			63148-62-9
								Propylene oxide polymer with ethylene oxide			9003-11-6

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 18 (CSA 1)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Corrosive	**AP Solvent** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**330** Storage Container: Tote Bin Days on Site: 365	**330**	330 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Substituted amine (1) Substituted amine (2) water	75% 16% 3%		Trade Secret trade secret 7732-18-5
Combustible Liquid, Class III-B	**Engine Oil** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**1265** Storage Container: Tote Bin Days on Site: 365	**55**	1265 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Respiratory Skin Sensitization	highly refined mineral oil (C15-C50)	99%		Mixture
Corrosive	**Triethylene Glycol** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**220** Storage Container: Tote Bin Days on Site: 365	**220**	220 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization	Triethylene glycol Diethylene glycol	100% 5%		112-27-6 111-46-6
	HSW700 CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**350** Storage Container: Tote Bin Days on Site: 365	**350**	350 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Alkanolamine/aldehyde condensate Methanol Monoethanolamine	50% 10% 5%		4719-04-4 67-56-1 141-43-5
	RBW6000X CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**220** Storage Container: Tote Bin Days on Site: 365	**55**	220 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Specific Target Organ Toxicity				
DOT: 9 - Misc. Hazardous Materials Combustible Liquid, Class III-B	**Tretolite RBW-517 Water Clarifier** CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Tote Bin Days on Site: 365	**110**	110 Pressue: Ambient Temperature: Ambient	0 Waste Code		catonic acrylamide copolymer sulfuric acid diammonium salt ammonium chloride ((NH4)Cl) 1,2,3-propanetriol	30% 30% 5% 5%		 007783-20-2 012125-02-9 000056-81-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 18 (CSA1)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	DMO2030	**Gallons**	**200**	**200**	200		- Physical Flammable	Light aromatic naphtha	25%		64742-95-6
	CAS No	State	Storage Container		Pressue	Waste Code	- Health Carcinogenicity	1,2,4 Trimethlybenzene	15%		95-63-6
		Liquid	Tote Bin		Ambient		- Health Skin Corrosion Irritation	1,3,5 Trimethloybenzene	5%		108-67-8
	Map: 18	Type			Temperature		- Health Serious Eye Damage Eye Irritation	2 Ethylhexanol	5%		104-76-7
		Mixture	Days on Site: 365		Ambient		- Health Specific Target Organ Toxicity	Alkyl Benzenesulfonic acid	5%		68584-22-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 19**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
Flammable Gas	**Methane** CAS No 74-82-8 Map: 19	**Cu. Feet** State Gas Type Pure	**440** Storage Container Cylinder Days on Site: 365	**220**	440 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure	Methane	100%		74-82-8

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 2**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	WCW7918	**Gallons**	**500**	**300**	500		- Physical Flammable	Methanol	40%		67-56-1
Flammable Liquid, Class I-C, Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code	- Health Acute Toxicity	Amine salts	20%		Trade secret
	Map: 2	Type: Mixture	Days on Site: 365		Temperature: Ambient		- Health Skin Corrosion Irritation	2-Butoxyethanol	10%		Trade secret
							- Health Respiratory Skin Sensitization	Phosphonate salt	5%		Trade secret
							- Health Serious Eye Damage Eye Irritation	Sulfur compound	5%		Trade secret
							- Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 20**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	Nitrous Oxide (NOS)	**Cu. Feet**	**440**	**220**	440		- Physical Flammable - Physical Gas Under Pressure - Health Specific Target Organ Toxicity	Nitrous oxide	100%		10024-97-2
Oxidizing Gas, Gaseous	CAS No Map: 20	State: Gas Type: Mixture	Storage Container: Cylinder Days on Site: 365		Pressue: > Ambient Temperature: Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 21**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Floctreat 7932A	**Gallons**	**550**	**550**	550		- Health Specific	Ethylene Glycol	10%		107-21-1
Toxic	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code	Target Organ Toxicity				
	Map: 21	Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 22**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	DMO2030	**Gallons**	**200**	**200**	200		- Physical Flammable	Light aromatic naphtha	25%		64742-95-6
Flammable Liquid, Class I-C, Toxic, Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code	- Health Carcinogenicity	1,2,4 Trimethlybenzene	15%		95-63-6
	Map: 22	Type: Mixture	Days on Site: 365		Temperature: Ambient		- Health Skin Corrosion Irritation	1,3,5 Trimethloybenzene	5%		108-67-8
							- Health Serious Eye Damage Eye Irritation	2 Ethylhexanol	5%		104-76-7
							- Health Specific Target Organ Toxicity	Alkyl Benzenesulfonic acid	5%		68584-22-5

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 23**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	PAW2000 Paraffin Dispersant	**Gallons**	**220**	**220**	220		- Physical Flammable	xylene	70%		1330-20-7
Flammable Liquid, Class I-C, Toxic, Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue: Ambient	Waste Code	- Health Carcinogenicity	Alkylaryl sulfonates	20%		trade secret
	Map: 23	Type: Mixture	Days on Site: 365		Temperature: Ambient		- Health Acute Toxicity	Toluene	5%		108-88-3
							- Health Reproductive Toxicity	Ethylbenzene	20%		100-41-4
							- Health Skin Corrosion Irritation				
							- Health Serious Eye Damage Eye Irritation				
							- Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 24**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	DFO3004 Defoamer	**Gallons**	**200**	**200**	200	0	- Physical Flammable	Kerosene	90%		8008-20-6
Flammable Liquid, Class I-C, Corrosive	CAS No	State: Liquid	Storage Container: Tote Bin		Pressue	Waste Code	- Health Carcinogenicity	Naphthalene	5%		91-20-3
	Map: 24	Type: Mixture	Days on Site: 365		Temperature		- Health Skin Corrosion Irritation				
							- Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 25**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	Tretolite DMO7040 Demulsifier	**Gallons**	**700**	**250**	700		- Physical Flammable	Light aromatic naphtha	30%		6742-95-6
	CAS No	State	Storage Container		Pressue	Waste Code	- Health Carcinogenicity	1,2,4 Trimethlybenzene	20%		95-63-6
		Liquid	Tote Bin		> Ambient		- Health Skin Corrosion Irritation	Heavy aromotic naptha	10%		64742-94-5
	Map: 25	Type			Temperature		- Health Serious Eye Damage Eye Irritation	1,3,5, Trimethlybenzene	10%		108-67-8
		Mixture	Days on Site: 365		Ambient		- Health Specific Target Organ Toxicity	Xylene	5%		1330-20-7

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 26**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	DMO8424	**Gallons**	**945**	**250**	945						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum, Tote Bin		Pressue: Ambient	Waste Code					
	Map: 26	Type: Mixture	Days on Site: 365		Temperature: Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 27**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 4.1 - Flammable Solids	**Activated Carbon**	**Pounds**	**4000**	**2000**	4000		- Physical Flammable				
Flammable Solid	CAS No 7440-44-0 Map: 27	State Solid Type Pure	Storage Container Aboveground Tank Days on Site: 365		Pressue Ambient Temperature Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 3**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	AQUA-DRILLING LUBE CAS No Map: 3	**Gallons** State Liquid Type Mixture	**1650** Storage Container Tote Bin	**330**	1650 Pressue Temperature	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 4**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	CRW 3658	**Gallons**	**2440**	**350**	2440		- Health Skin Corrosion	Quaternary ammonium compound	20%		Trade Secret
	CAS No	State	Storage Container		Pressue	Waste Code	Irritation	Phosphate ester salt	10%		Trade Secret
Corrosive	Map: 4	Liquid	Tote Bin		Ambient			Ethanol	5%		64-17-5
		Type			Temperature			Alkyl amine	1%		Trade Secret
		Mixture	Days on Site: 365		Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 5**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	SCW4056	**Gallons**	**2950**	**330**	2950		- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation	Phosphonate salt	20%		Trade Secret
								Sodium bisulfite	1%		7631-90-5
Corrosive	CAS No	State Liquid	Storage Container Tote Bin		Pressue Ambient	Waste Code					
	Map: 5	Type Mixture	Days on Site: 365		Temperature Ambient						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 6**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Diesel	**Gallons**	**4300**	**4000**	4300		- Physical Flammable	Fuels, diesel, no, 2	100%		68476-34-6
	CAS No	State	Storage Container		Pressue	Waste Code	- Health Carcinogenicity	Naphthalene	1%		91-20-3
Combustible Liquid, Class II		Liquid	Aboveground Tank, Tote Bin		Ambient		- Health Acute Toxicity				
	Map: 6	Type			Temperature		- Health Skin Corrosion Irritation				
		Mixture	Days on Site: 365		Ambient		- Health Specific Target Organ Toxicity				
							- Health Aspiration Hazard				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 7**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SRW156	**Gallons**	**1000**	**1000**	1000		- Physical	Sodium edetate	40%		Trade Secret
	CAS No	State	Storage Container		Pressue	Waste Code	Corrosive To	Polycarboxylate salt	1%		19019-43-3
Corrosive, Toxic		Liquid	Tote Bin		Ambient		Metal	Trisodium nitrilotriacetic acid	1%		5064-31-3
	Map: 7	Type			Temperature		- Health Carcinogenicity	Sodium hydroxide	1%		1310-73-2
		Mixture	Days on Site: 365		Ambient		- Health Acute Toxicity				
							- Health Skin Corrosion Irritation				
							- Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 8 (Drilling Storage Area)**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Engine Oil	**Gallons**	**1550**	**330**	1550		- Health Respiratory Skin Sensitization	highly refined mineral oil (C15-C50)	99%		Mixture
Combustible Liquid, Class III-B	CAS No Map: 8	State: Liquid Type: Mixture	Storage Container: Tote Bin Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease, Map Location 9**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
	HSW700	**Gallons**	**750**	**550**	750		- Physical Flammable	Alkanolamine/aldehyde condensate	50%		4719-04-4
Combustible Liquid, Class III-A, Toxic, Corrosive, Flammable Gas, 9	CAS No Map: 9	State Liquid	Storage Container Tote Bin		Pressue Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity	Methanol Monoethanolamine	10% 5%		67-56-1 141-43-5
		Type Mixture	Days on Site: 365		Temperature Ambient						

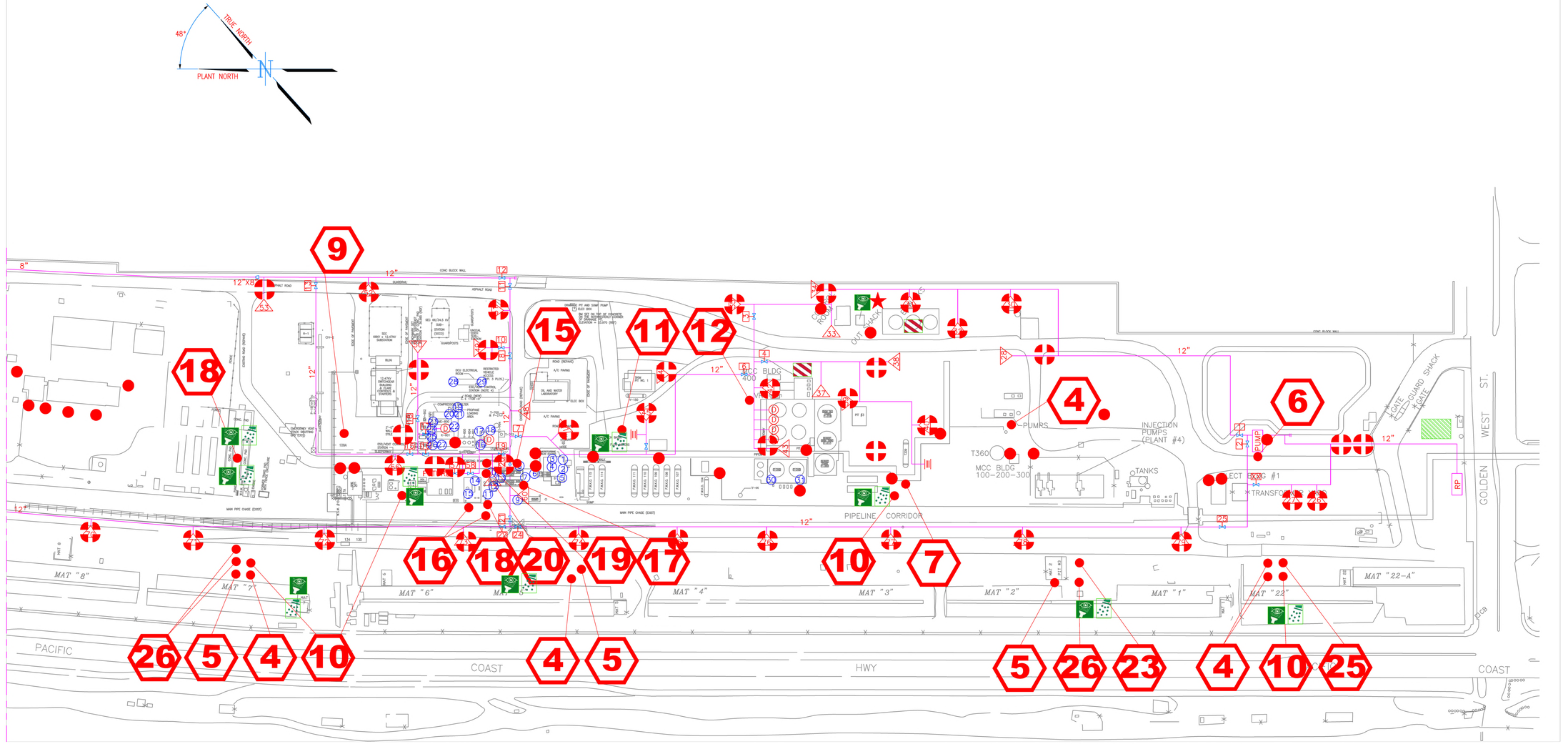
Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **California Resources Production Corporation**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **North Bolsa**

CERS ID **10446451**
Facility ID **FA0058859**
Status **Submitted** on 2/12/2025 2:45 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Flammable Liquid, Class I-B, Toxic	**FORSA Paraffin Dispersant** CAS No 64742-89-8	**Gallons** State Liquid Type	**120** Storage Container Aboveground Tank, Plastic/Non-metalic Drum		120 Pressue Temperature	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				



CHEM NO.	CHEM NAME	AVG INVENTORY
2	WCW7918	200 GAL
4	CRW3658	1770 GAL
5	SCW4056	1580 GAL
6	DIESEL	300 GAL
7	SRW156	1000 GAL
8	DIESEL CHEM STORAGE	55 GAL
10	DM08298X	480 GAL
11	RBW6560	250 GAL
21	FLOCTREAT	200 GAL
22	DM02030	500 GAL
23	PA02000	130 GAL
24	DF03004	130 GAL
25	DM07040	720 GAL
26	DM08424	975 GAL

GAS PLANT.	CHEM NAME	AVG INVENTORY
9	HSW700	550 GAL
15	ADSOLVENT	–
16	GLYCOL	–
17	AMINE	–
19	METHANE	–
20	NITROUSOXIDE	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–

LEGEND:

- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE
- STAGING AREA
- FIRE EXTINGUISHER
- SCBA
- HYDRANT
- SD STORM DRAIN
- # LOCATION OF ON-SITE HAZARDOUS CHEMICALS
- SPILL KIT
- EYE WASH
- FIRST AID KIT/AED
- WIND SOCK LOOK FOR WIND DIRECTION
- SHOWER
- VALVE
- FIRE HYDRANT
- FIRE HOSE REEL
- (D) DELUGE SYSTEM
- (X) FIRE DETECTOR SYSTEM

DEVICE:

1: MICROTURBINE UVIR#1
2: MICROTURBINE UVIR#2
3: MICROTURBINE UVIR#3
4: MICROTURBINE LEL AIT-2
5: MICROTURBINE LEL AIT-1
6: AMINE LEL AAH-1008
7: AMINE LEL AAH-1007
8: AMINE UVIR#1
9: AMINE UVIR#4
10: AMINE UVIR#2
11: AMINE UVIR#3
12: AMINE LEL AAH-1005
13: AMINE LEL AAH-1006
14: GLYCOL LEL AT-910
15: GLYCOL LEL AT-911
16: DCU SALES SKID UVIR AE-1148E
17: DCU SALES SKID H2S AA-1149C
18: DCU SALES SKID LEL AE-1101E
19: DCU UVIR AE-1148D
20: DCU H2S AA-1149A
21: DCU LEL AE-1101D
22: DCU LEL AE-1101B
23: DCU UVIR AE-1148B
24: DCU H2S AA-1149B
25: DCU LEL AE-1101C
26: DCU UVIR AE-1148A
27: DCU LEL AE-1101A
28: DCU MCC LEL AE-1101H
29: DCU CONTROL ROOM LEL AE-1101I
30: H2S AIT-342
31: H2S AIT-343

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	INITIAL ISSUE ON CRC TITLEBLOCK, 2024	07/18/24	NS	JJ	JJ

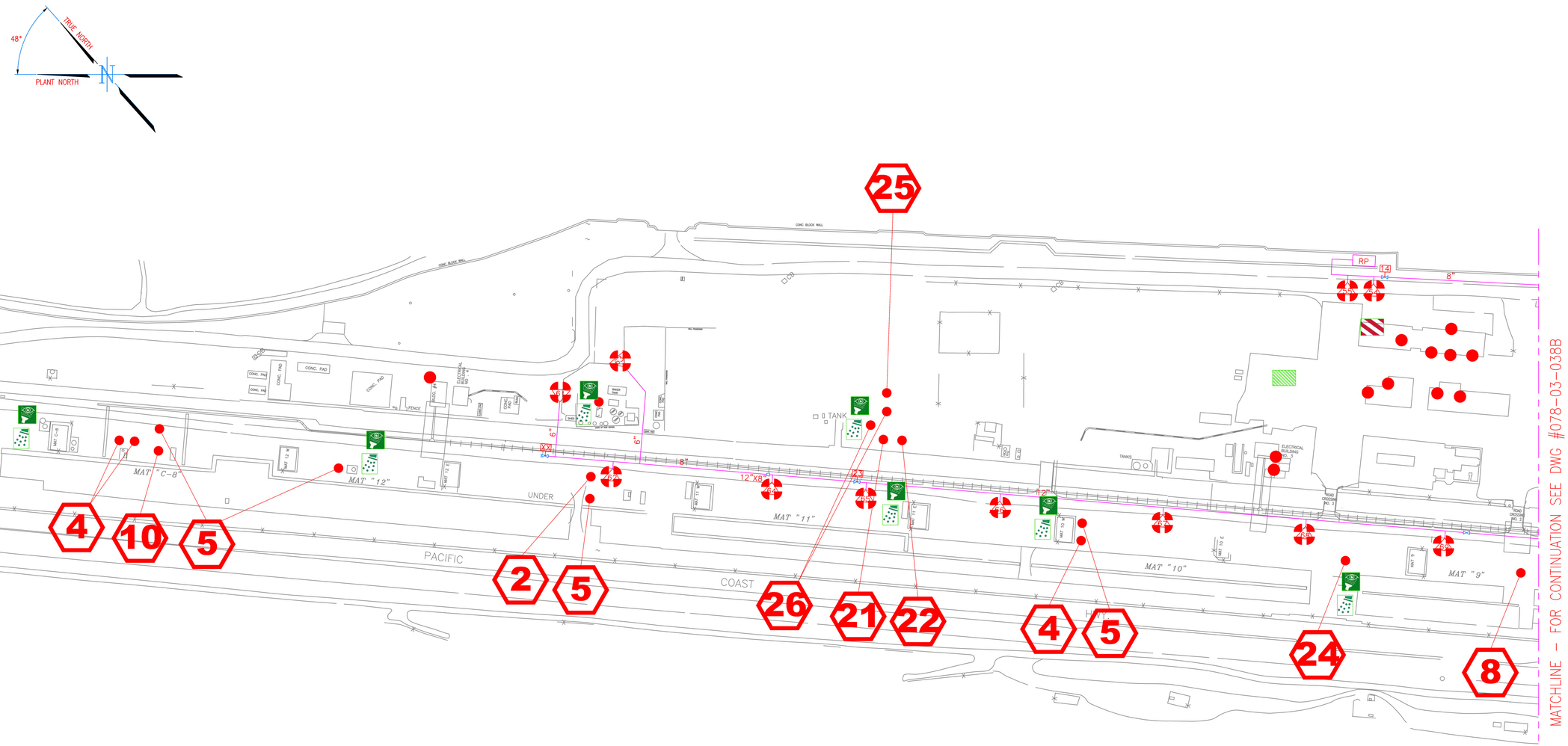
CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNGTINGTON BEACH HIGHLANDS
SURFACE FACILITIES
BUSINESS EMERGENCY PLAN SITE MAP

SCALE:	DESIGNED BY:	CHECKED BY:	DRAWING NO.	REV.
DATE:	DRAWN BY:	APPROVED BY:	SHEET 1 OF SHEETS	0

BLOCK REV 0

PROJECT DRAWING NO.:



CHEM NO.	CHEM NAME	AVG INVENTORY
2	WCW7918	200 GAL
4	CRW3658	1770 GAL
5	SCW4056	1580 GAL
6	DIESEL	300 GAL
7	SRW156	1000 GAL
8	DIESEL CHEM STORAGE	55 GAL
10	DM08298X	480 GAL
11	RBW6560	250 GAL
21	FLOCTREAT	200 GAL
22	DM02030	500 GAL
23	PA02000	130 GAL
24	DF03004	130 GAL
25	DM07040	720 GAL
26	DM08424	975 GAL

GAS PLANT.	CHEM NAME	AVG INVENTORY
9	HSW700	–
15	ADSOLVENT	–
16	GLYCOL	–
17	AMINE	–
19	METHANE	–
20	NITROUSOXIDE	480 GAL
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–

LEGEND:

- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE
- STAGING AREA
- FIRE EXTINGUISHER
- SCBA
- HYDRANT
- SD STORM DRAIN
- # LOCATION OF ON-SITE HAZARDOUS CHEMICALS
- SPILL KIT
- EYE WASH
- FIRST AID KIT/AED
- WIND SOCK LOOK FOR WIND DIRECTION
- SHOWER
- VALVE
- FIRE HYDRANT
- FIRE HOSE REEL
- (D) DELUGE SYSTEM
- (X) FIRE DETECTOR SYSTEM

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	INITIAL CRC TITLEBLOCK UPDATE, 2024	07/18/24	NS	JJ	JJ

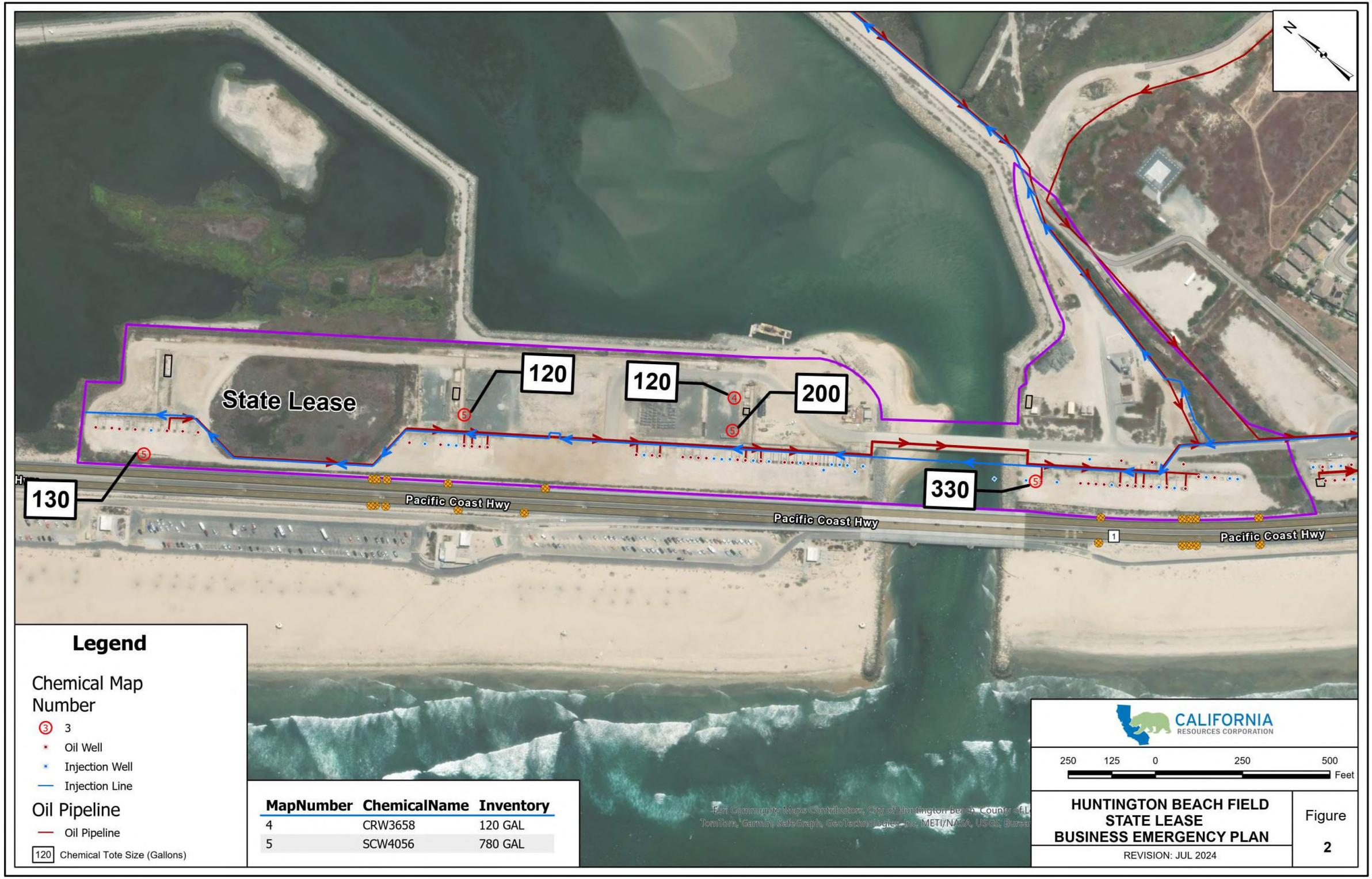
CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNTINGTON BEACH HIGHLANDS
SURFACE FACILITIES
BUSINESS EMERGENCY PLAN SITE MAP

SCALE:	DESIGNED BY:	CHECKED BY:	DRAWING NO.	REV.
DATE:	DRAWN BY:	APPROVED BY:	SHEET 2 OF SHEETS	0

BLOCK REV 0

PROJECT DRAWING NO.:



Legend

Chemical Map Number

- 3 — 3
- Oil Well
- Injection Well
- Injection Line

Oil Pipeline

- Oil Pipeline

120 Chemical Tote Size (Gallons)

MapNumber	ChemicalName	Inventory
4	CRW3658	120 GAL
5	SCW4056	780 GAL

CALIFORNIA RESOURCES CORPORATION

250 125 0 250 500 Feet

HUNTINGTON BEACH FIELD
STATE LEASE
BUSINESS EMERGENCY PLAN

REVISION: JUL 2024

Figure **2**

SCE Recovery Substation (CERSID: 10175719)

Facility Information **Accepted Jun 2, 2025**

Submitted on 2/12/2025 10:51:59 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by Submitter: 2025 Annual Submittal.
Submittal was ***Accepted*** on 6/2/2025 8:42:24 AM by Lisa Wales

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Feb 27, 2025**

Submitted on 2/12/2025 10:51:59 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 2/27/2025 10:44:36 AM by Alexandra Escobedo
Comments by regulator: THE HAZARDOUS MATERIALS INVENTORY HAS BEEN ACCEPTED. ON-SITE VERIFICATION WILL OCCUR DURING YOUR ROUTINE INSPECTION. NOTIFY THIS AGENCY THROUGH CERS IF THERE IS ANY CHANGE IN OWNERSHIP, ANY CHANGES IN CHEMICALS QUANTITIES OVER 100% OR IF THERE ARE ANY NEW CHEMICALS BEING STORED AT YOUR FACILITY. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Hazardous Material Inventory (1)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 183KB)

Emergency Response and Training Plans **Accepted Feb 27, 2025**

Submitted on 2/12/2025 10:51:59 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 2/27/2025 10:47:53 AM by Alexandra Escobedo
Comments by regulator: THE EMERGENCY RESPONSE AND TRAINING PLANS HAVE BEEN ACCEPTED. FOR EMPLOYEE TRAINING PLANS, PLEASE SELECT 'STORED AT FACILITY' UNDER DOCUMENT OPTIONS AS OPPOSED TO 'PROVIDED ELSEWHERE IN CERS'. ON-SITE VERIFICATION OF EMPLOYEE TRAINING RECORDS FOR INITIAL AND ANNUAL REFRESHER TRAINING WILL OCCUR DURING YOUR ROUTINE INSPECTION. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 520KB)
- Employee Training Plan
  - Provided In Submital Element: Emergency Response and Training Plans

California Environmental Reporting System (CERS) — Business Activities

Site Identification

SCE Recovery Substation
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10175719
EPA ID Number

Submittal Status

Submitted on 2/12/2025 by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2025 Annual Submittal.
Submittal was ***Accepted***; Processed on 6/2/2025 by *Lisa Wales* for Orange County Environmental Health

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**No**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

SCE Recovery Substation
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10175719

Submittal Status

Submitted on 2/12/2025 by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2025 Annual Submittal.
Submittal was ***Accepted***; Processed on 6/2/2025 by *Lisa Wales* for Orange County Environmental Health

Identification

Southern California Edison

Operator Phone	Business Phone	Business Fax
(626) 302-1212	(626) 302-1212	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
195138458	4911	221122

Facility/Site Mailing Address

P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Primary Emergency Contact

Environmental Operation Center
Title
Environmental Advisor

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Owner

Southern California Edison
(626) 302-1212
P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Secondary Emergency Contact

Environmental Operation Center
Title
Environmental Sr. Manager

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Billing Contact

Southern California Edison
(626) 302-1212 EHSync@sce.com
P.O. Box 5085 (Attn: Environmental)
Rosemead , CA 91770

Environmental Contact

Environmental Operation Center
(844) 468-7745 AgencyInspections@SCE.COM
P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Name of Signer	Signer Title	Document Preparer
Tiffany Chapman	Senior Specialist	Tiffany Chapman

Additional Information
Taxpayer Identification Number: 95-1240335

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Socal Holding LLC
Phone

Mailing Address
27200 Tourney Rd # 3
Santa Clarita, CA 91355

Assessor Parcel Number (APN)
023-181-54
Number of Employees
0
Facility ID
FA0047759

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Southern California Edison, Transmission and Distribution Organization (TD)**

Chemical Location

CERS ID **10175719**

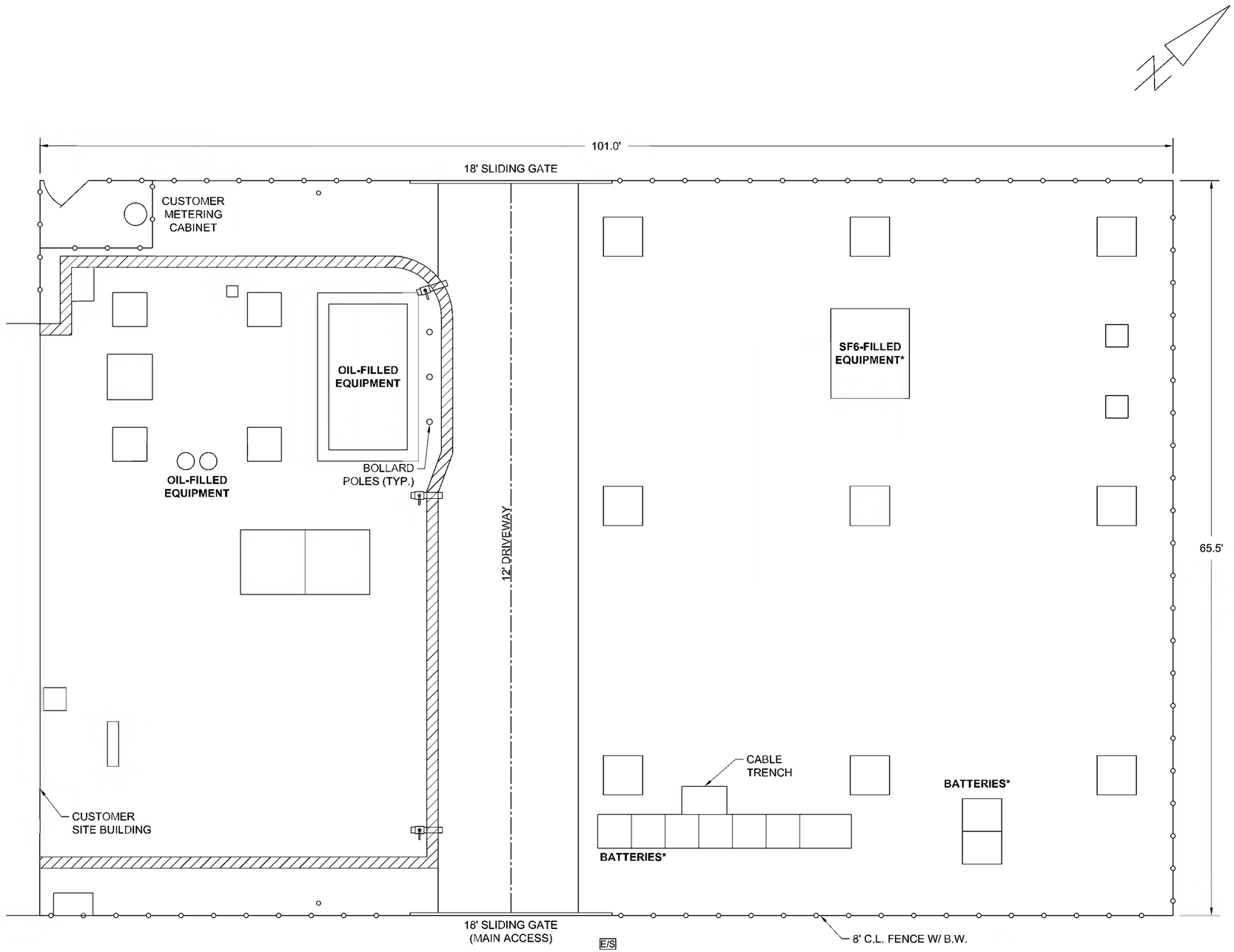
Facility Name **SCE Recovery Substation**
20101 Goldenwest St, Huntington Beach 92648

Inside Electrical Equipment

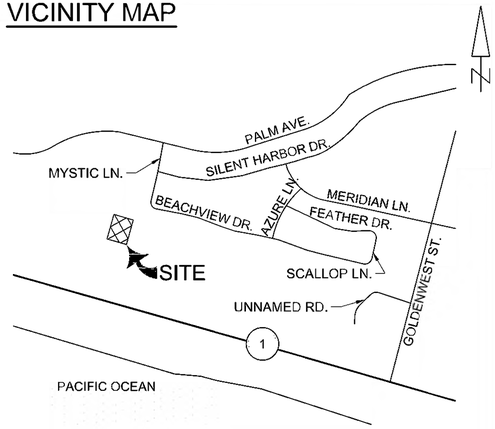
Facility ID **FA0047759**

Status **Submitted** on 2/12/2025 10:51 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only) Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Mineral Oil** CAS No 64742-53-6	**Gallons** State Liquid Type Mixture	**3321** Storage Container Other Days on Site: 365	**3302**	3321 Pressue Ambient Temperature Ambient	Waste Code	- Health Aspiration Hazard	Severely Hydrotreated Light Naphthenic Petroleum Butylated Hydroxy Toluene	100% 0%		64742-53-6 128-37-0



VICINITY MAP



20101 GOLDENWEST ST.
HUNTINGTON BEACH, CA 92648

NOTES

THIS MAP WAS PREPARED IN COMPLIANCE WITH CALIFORNIA H&SC, 25505(A)(2) WHICH REQUIRES, "A SITE MAP THAT CONTAINS NORTH ORIENTATION, LOADING AREAS, INTERNAL ROADS, ADJACENT STREETS, STORM AND SEWER DRAINS, ACCESS AND EXIT POINTS, EMERGENCY SHUTOFFS, EVACUATION STAGING AREAS, HAZARDOUS MATERIAL HANDLING AND STORAGE AREAS, AND EMERGENCY RESPONSE EQUIPMENT." IF ITEMS FROM THIS LIST ARE NOT SHOWN ON THE MAP, THEY DO NOT EXIST AT THE FACILITY.

*BELOW REPORTING THRESHOLD.
DIAGRAM IS NOT TO SCALE.

LEGEND

E/S — EVACUATION/STAGING AREA

UNSTAFFED SUBSTATION: FIRE EXTINGUISHER IS LOCATED IN SCE VEHICLE AND PLACED FOR EMERGENCY ACCESS WHILE ONSITE.

HAZARDOUS MATERIALS BUSINESS PLAN

SCE RECOVERY SUBSTATION

REVISIONS	
DESIGNERS	DATE
CGR ENGINEERING, INC.	12-04-14
ERM	06-29-16
ERM	02-15-17
ERM	02-25-21
ERM	08-02-21

REFERENCES
5521224_REV 3

SHEET 1 OF 1

SOUTHERN CALIFORNIA EDISON®
An EDISON INTERNATIONAL® Company

SCE Soco Substation (CERSID: 10180479)

Facility Information **Accepted Jun 2, 2025**

Submitted on 2/12/2025 11:35:26 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by Submitter: 2025 Annual Submittal.
Submittal was ***Accepted*** on 6/2/2025 8:42:47 AM by Lisa Wales

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Feb 27, 2025**

Submitted on 2/12/2025 11:35:26 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 2/27/2025 11:13:42 AM by Alexandra Escobedo
Comments by regulator: THE HAZARDOUS MATERIALS INVENTORY HAS BEEN ACCEPTED. ON-SITE VERIFICATION WILL OCCUR DURING YOUR ROUTINE INSPECTION. NOTIFY THIS AGENCY THROUGH CERS IF THERE IS ANY CHANGE IN OWNERSHIP, ANY CHANGES IN CHEMICALS QUANTITIES OVER 100% OR IF THERE ARE ANY NEW CHEMICALS BEING STORED AT YOUR FACILITY. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Hazardous Material Inventory (1)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 158KB)

Emergency Response and Training Plans **Accepted Feb 27, 2025**

Submitted on 2/12/2025 11:35:26 AM by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Submittal was ***Accepted*** on 2/27/2025 11:18:49 AM by Alexandra Escobedo
Comments by regulator: THE EMERGENCY RESPONSE AND TRAINING PLANS HAVE BEEN ACCEPTED. FOR EMPLOYEE TRAINING PLANS, PLEASE SELECT 'STORED AT FACILITY' UNDER DOCUMENT OPTIONS AS OPPOSED TO 'PROVIDED ELSEWHERE IN CERS'. ON-SITE VERIFICATION OF EMPLOYEE TRAINING RECORDS FOR INITIAL AND ANNUAL REFRESHER TRAINING WILL OCCUR DURING YOUR ROUTINE INSPECTION. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 520KB)
- Employee Training Plan
  - Provided In Submital Element: Emergency Response and Training Plans

California Environmental Reporting System (CERS) — Business Activities

Site Identification

SCE Soco Substation
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10180479
EPA ID Number

Submittal Status

Submitted on 2/12/2025 by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2025 Annual Submittal.
Submittal was ***Accepted***; Processed on 6/2/2025 by *Lisa Wales* for Orange County Environmental Health

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**No**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

SCE Soco Substation
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10180479

Submittal Status

Submitted on 2/12/2025 by *Tiffany Chapman* of Southern California Edison, Transmission and Distribution Organization (TD) (Rosemead, CA)
Comments by submitter: 2025 Annual Submittal.
Submittal was ***Accepted***; Processed on 6/2/2025 by *Lisa Wales* for Orange County Environmental Health

Identification

Southern California Edison

Operator Phone	Business Phone	Business Fax
(626) 302-1212	(626) 302-1212	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
195138458	4911	221122

Facility/Site Mailing Address

P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Primary Emergency Contact

Environmental Operation Center
Title
Environmental Advisor

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Owner

Southern California Edison
(626) 302-1212
P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Secondary Emergency Contact

Environmental Operation Center
Title
Environmental Sr. Manager

Business Phone	24-Hour Phone	Pager Number
(844) 468-7745	(844) 468-7745	

Billing Contact

Southern California Edison
(626) 302-1212 EHSync@sce.com
P.O. Box 5085 (Attn: Environmental)
Rosemead , CA 91770

Environmental Contact

Environmental Operation Center
(844) 468-7745 AgencyInspections@SCE.COM
P.O. Box 5085 (Attn: Environmental)
Rosemead, CA 91770

Name of Signer	Signer Title	Document Preparer
Tiffany Chapman	Senior Specialist	Tiffany Chapman

Additional Information
Taxpayer Identification Number: 95-1240335

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Socal Holding LLC
Phone

Mailing Address
27200 Tourney Rd # 3
Santa Clarita, CA 91355

Assessor Parcel Number (APN)
023-181-54
Number of Employees
0
Facility ID
FA0047761

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Southern California Edison, Transmission and Distribution Organization (TD)**

Chemical Location

CERS ID **10180479**

Facility Name **SCE Soco Substation**
20101 Goldenwest St, Huntington Beach 92648

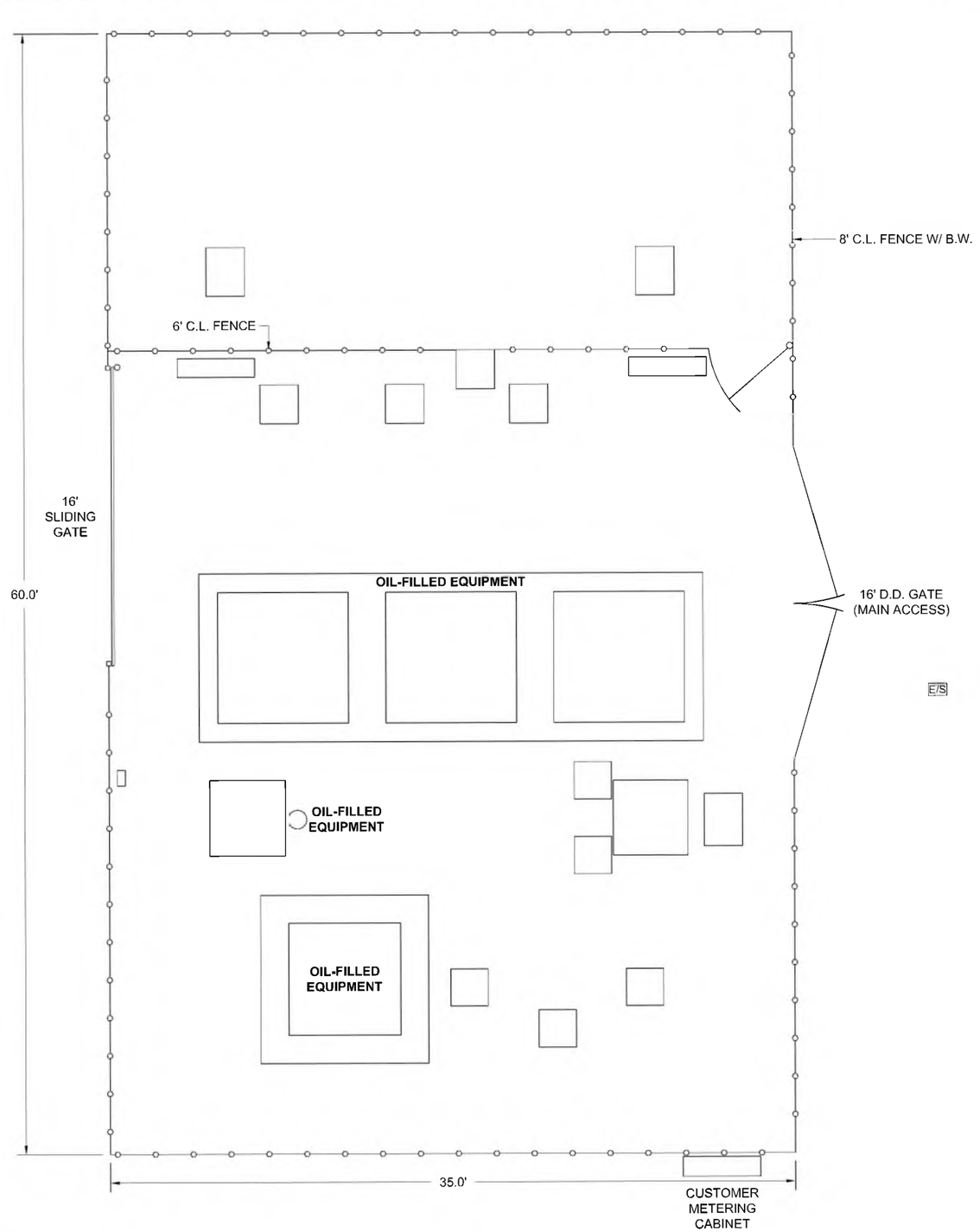
Inside Electrical Equipment

Facility ID **FA0047761**

Status **Submitted** on 2/12/2025 11:35 AM

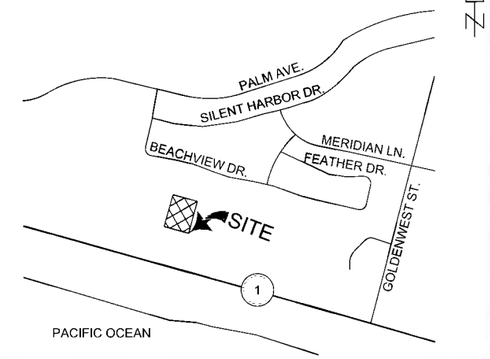
DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Mineral Oil** CAS No 64742-53-6	**Gallons** State Liquid Type Mixture	**4110** Storage Container Other Days on Site: 365	**1020**	4110 Pressue Ambient Temperature Ambient	Waste Code	- Health Aspiration Hazard	Severely Hydrotreated Light Naphthenic Petroleum Butylated Hydroxy Toluene	100% 0%		64742-53-6 128-37-0

CUSTOMER SITE ACCESS ROAD



UNSTAFFED SUBSTATION: FIRE EXTINGUISHER IS LOCATED IN SCE VEHICLE AND PLACED FOR EMERGENCY ACCESS WHILE ONSITE.

VICINITY MAP



20101 GOLDENWEST ST.
HUNTINGTON BEACH, CA 92648

NOTES

THIS MAP WAS PREPARED IN COMPLIANCE WITH CALIFORNIA H&SC, 25505(A)(2) WHICH REQUIRES, "A SITE MAP THAT CONTAINS NORTH ORIENTATION, LOADING AREAS, INTERNAL ROADS, ADJACENT STREETS, STORM AND SEWER DRAINS, ACCESS AND EXIT POINTS, EMERGENCY SHUTOFFS, EVACUATION STAGING AREAS, HAZARDOUS MATERIAL HANDLING AND STORAGE AREAS, AND EMERGENCY RESPONSE EQUIPMENT." IF ITEMS FROM THIS LIST ARE NOT SHOWN ON THE MAP, THEY DO NOT EXIST AT THE FACILITY.

DIAGRAM IS NOT TO SCALE.

LEGEND

E/S EVACUATION/STAGING AREA

HAZARDOUS MATERIALS BUSINESS PLAN

SCE SOCO SUBSTATION

REVISIONS	
DESIGNERS	**DATE**
CGR ENGINEERING, INC.	11-25-14
ERM	02-14-17
ERM	01-13-21

REFERENCES
5453936_REV 0

SHEET 1 OF 1

SOUTHERN CALIFORNIA EDISON®
An EDISON INTERNATIONAL® Company

SO CA GAS CO - OM2503 (CERSID: 10768957)

Facility Information **Accepted May 19, 2025**

Submitted on 2/4/2025 12:52:10 PM by *Mariza Arnot* of Southern California Gas Company (Los Angeles, CA)
Comments by Submitter: Annual review, environmental contact info updated. ma
Submittal was ***Accepted*** on 5/19/2025 5:09:50 PM by Sarah Orndorff
Comments by regulator: Facility Information ACCEPTED.

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Feb 18, 2025**

Submitted on 2/4/2025 12:52:10 PM by *Mariza Arnot* of Southern California Gas Company (Los Angeles, CA)
Comments by Submitter: Annual review, no changes. ma
Submittal was ***Accepted*** on 2/18/2025 11:21:34 AM by Alexandra Escobedo
Comments by regulator: THE HAZARDOUS MATERIALS INVENTORY HAS BEEN ACCEPTED. ON-SITE VERIFICATION WILL OCCUR DURING YOUR ROUTINE INSPECTION. NOTIFY THIS AGENCY THROUGH CERS IF THERE IS ANY CHANGE IN OWNERSHIP, ANY CHANGES IN CHEMICAL QUANTITIES OVER 100% OR IF THERE ARE ANY NEW CHEMICALS BEING STORED AT YOUR FACILITY. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Hazardous Material Inventory (3)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 818KB)

Emergency Response and Training Plans **Accepted Feb 18, 2025**

Submitted on 2/4/2025 12:52:10 PM by *Mariza Arnot* of Southern California Gas Company (Los Angeles, CA)
Comments by Submitter: Annual review, no changes. ma
Submittal was ***Accepted*** on 2/18/2025 11:23:11 AM by Alexandra Escobedo
Comments by regulator: THE EMERGENCY RESPONSE AND TRAINING PLANS HAVE BEEN ACCEPTED. ON-SITE VERIFICATION OF EMPLOYEE TRAINING RECORDS FOR INITIAL AND ANNUAL REFRESHER TRAINING WILL OCCUR DURING YOUR ROUTINE INSPECTION. ** SHOULD YOU HAVE ANY QUESTIONS REGARDING YOUR SUBMITTAL, PLEASE CONTACT FIRE PREVENTION STAFF AT 714-536-5411 OR HMBP@SURFCITY-HB.ORG **

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 409KB)
- Employee Training Plan
  - *Employee Training Plan* (Adobe PDF, 161KB)

California Environmental Reporting System (CERS) — Business Activities

Site Identification

SO CA GAS CO - OM2503
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10768957
EPA ID Number

Submittal Status

Submitted on 2/4/2025 by *Mariza Arnot* of Southern California Gas Company (Los Angeles, CA)
Comments by submitter: Annual review, environmental contact info updated. ma
Submittal was ***Accepted***; Processed on 5/19/2025 by *Sarah Orndorff* for Orange County Environmental Health
Comments by regulator: Facility Information ACCEPTED.

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**No**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

SO CA GAS CO - OM2503
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10768957

Submittal Status

Submitted on 2/4/2025 by *Mariza Arnot* of Southern California Gas Company (Los Angeles, CA)
Comments by submitter: Annual review, environmental contact info updated. ma
Submittal was ***Accepted***; Processed on 5/19/2025 by *Sarah Orndorff* for Orange County Environmental Health
Comments by regulator: Facility Information ACCEPTED.

Identification

SO CA GAS CO - OM2503 CRC

Operator Phone	Business Phone	Business Fax
(714) 634-3199	(800) 640-9997	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
006908826	4923	

Facility/Site Mailing Address

PO BOX 2300, M/L SC9314
CHATSWORTH, CA 91313

Primary Emergency Contact

Jason Anderson
Title
District Operations Manager

Business Phone	24-Hour Phone	Pager Number
(562) 383-3246	(800) 640-9997	Cell5623833246

Owner

Southern California Gas Company
(714) 634-3199
PO BOX 2300, M/L SC9314
Chatsworth, CA 91313-2300

Secondary Emergency Contact

Raul Bonilla
Title
Measurement & Control Supervisor

Business Phone	24-Hour Phone	Pager Number
(714) 672-0379	(800) 640-9997	Cell2137036844

Billing Contact

So Cal Gas Co - OM2503
(818) 701-3422 MArnot2@socalgas.com
PO Box 2300, M/L SC9314
Chatsworth, CA 91313-2300

Environmental Contact

Jehiry De Haro
(323) 303-2755 JDeHaro@SoCalGas.com
PO Box 2300, M/L SC9314
Chatsworth, CA 91313

Name of Signer	Signer Title	Document Preparer
Jason Anderson	District Operations Manager	Mariza Arnot

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees

Facility ID

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Southern California Gas Company**
Facility Name **SO CA GAS CO - OM2503**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location

CERS ID **10768957**
Facility ID
Status **Submitted** on 2/4/2025 12:52 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids	**Gas Odorant** CAS No Mixture	**Gallons** State Liquid Type Mixture	**250** Storage Container Aboveground Tank Days on Site: 365	**250**	200 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard - Health Hazard Not Otherwise Classified	Tert-Butyl Mercaptan Thiophene, Tetrahydro-	50% 50%		75-661 110-01-0
DOT: 2.2 - Nonflammable Gases	**Helium Gas** CAS No 7440-59-7	**Cu. Feet** State Gas Type Pure	**360** Storage Container Cylinder	**120**	240 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Simple Asphyxiant				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Southern California Gas Company**
Facility Name **SO CA GAS CO - OM2503**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **NW of the YZ Odorant tank**

CERS ID **10768957**
Facility ID
Status **Submitted** on 2/4/2025 12:52 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Nitrogen Gas** CAS No 7727-37-9	**Cu. Feet** State Gas Type Pure	**690** Storage Container Cylinder		690 Pressue Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Physical Explosive - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant	Nitrogen	100%		7727-37-9

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities *(generally those with complex and/or multiple buildings)* should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. Site Plan: This drawing shall contain, at a minimum, the following information:

a. Site Orientation (north, south, etc.);
b. Approximate scale *(e.g. "1 inch = 10 feet".)*;
c. Date the map was drawn;
d. Locations of all buildings and other structures;
e. Parking lots and internal roads;
f. Hazardous materials loading/unloading areas;
g. Outside hazardous materials storage or use areas;
h. Storm drain and sanitary sewer drain inlets;
i. Wells for monitoring of underground tank systems;
j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
k. Adjacent property use;
l. Locations and names of adjacent streets and alleys;
m. Access and egress points and roads.

2. Storage Map(s): The map(s) shall contain, at a minimum, the following information:

a. General purpose of each section/area within each building *(e.g. "Office Area", "Manufacturing Area", etc.)*;
b. Location of each hazardous material/waste storage, dispensing, use, or handling area *(e.g. individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.)*. Each area shall be identified by a unique location code number, letter, or name *(e.g. "1", "2", "3"; "A", "B", "C", etc.)*;
c. Entrances to and exits from each building and hazardous material/waste room/area;
d. Location of each utility emergency shut-off point *(i.e. gas, water, electric.)*;
e. Location of each monitoring system control panel *(e.g. underground tank monitoring, toxic gas monitoring, etc.)*.

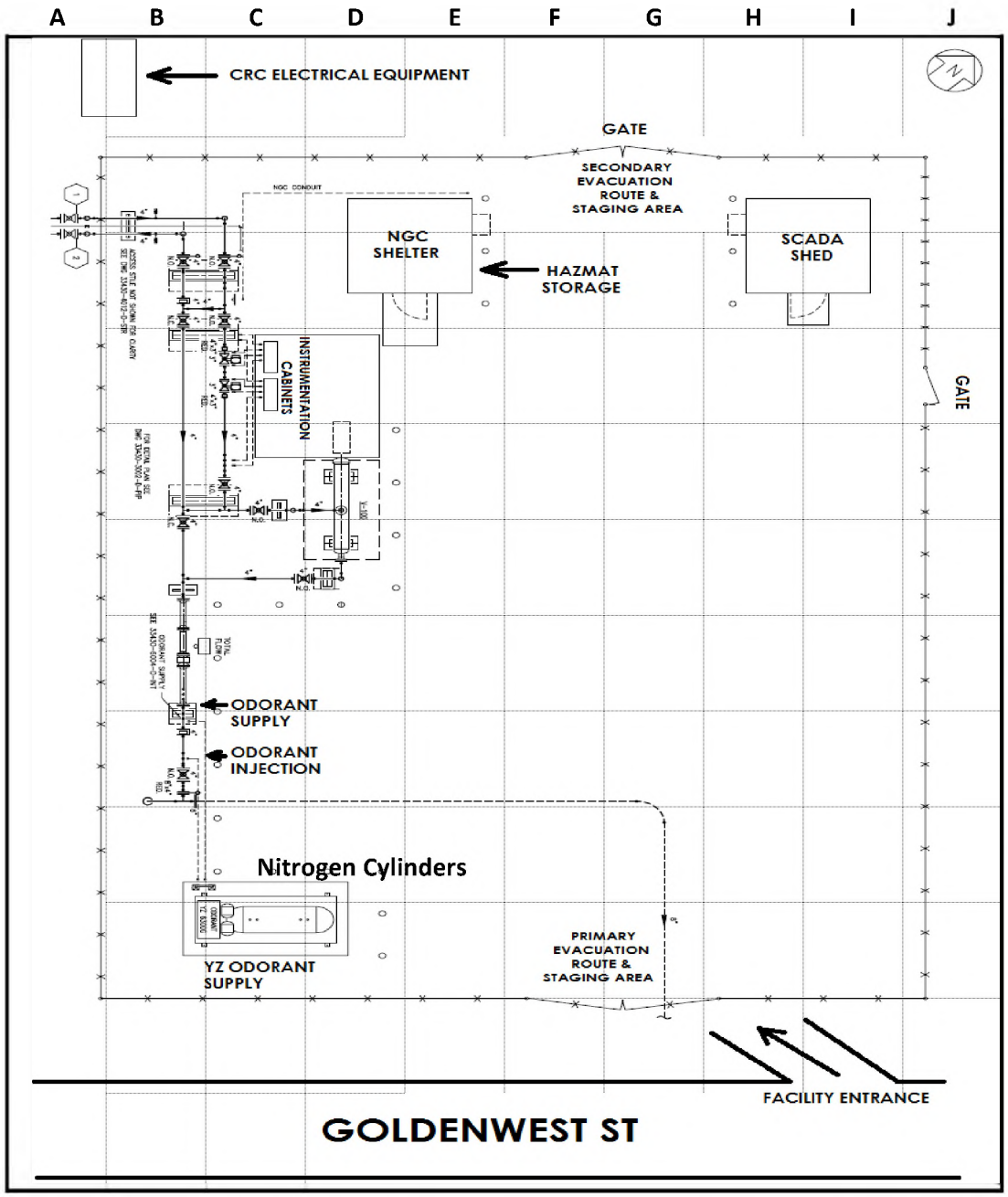
3. Map Legend

Item and/or Description	Location Code (LC)

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SITE MAP

BUSINESS NAME 3		
Southern California Gas Company, OM 2503		
SITE ADDRESS 103	CITY 104	ZIP CODE 105
20101 Goldenwest St	Huntington Beach	92648
DATE MAP DRAWN	MAP #	FACILITY ID # 1
7-19-2018	1 OF 2	



For Site Map

- Scale of Map
- Loading Areas
- Parking Lots
- Internal Roads
- Storm and Sewer Drains
- Adjacent Property Use
- Locations and Names of Adjacent Streets and Alleys
- Access and Egress Points and Roads
- Primary and Alternate Evacuation Routes
- Emergency Shut Off
- Excavation Areas

For Sub-Site Map

- Scale of Map
- Location of Each Storage Area
- Location of Each Hazardous Material Handling Area
- Location of Emergency Response Equipment

Scale:
1" = _____Ft.

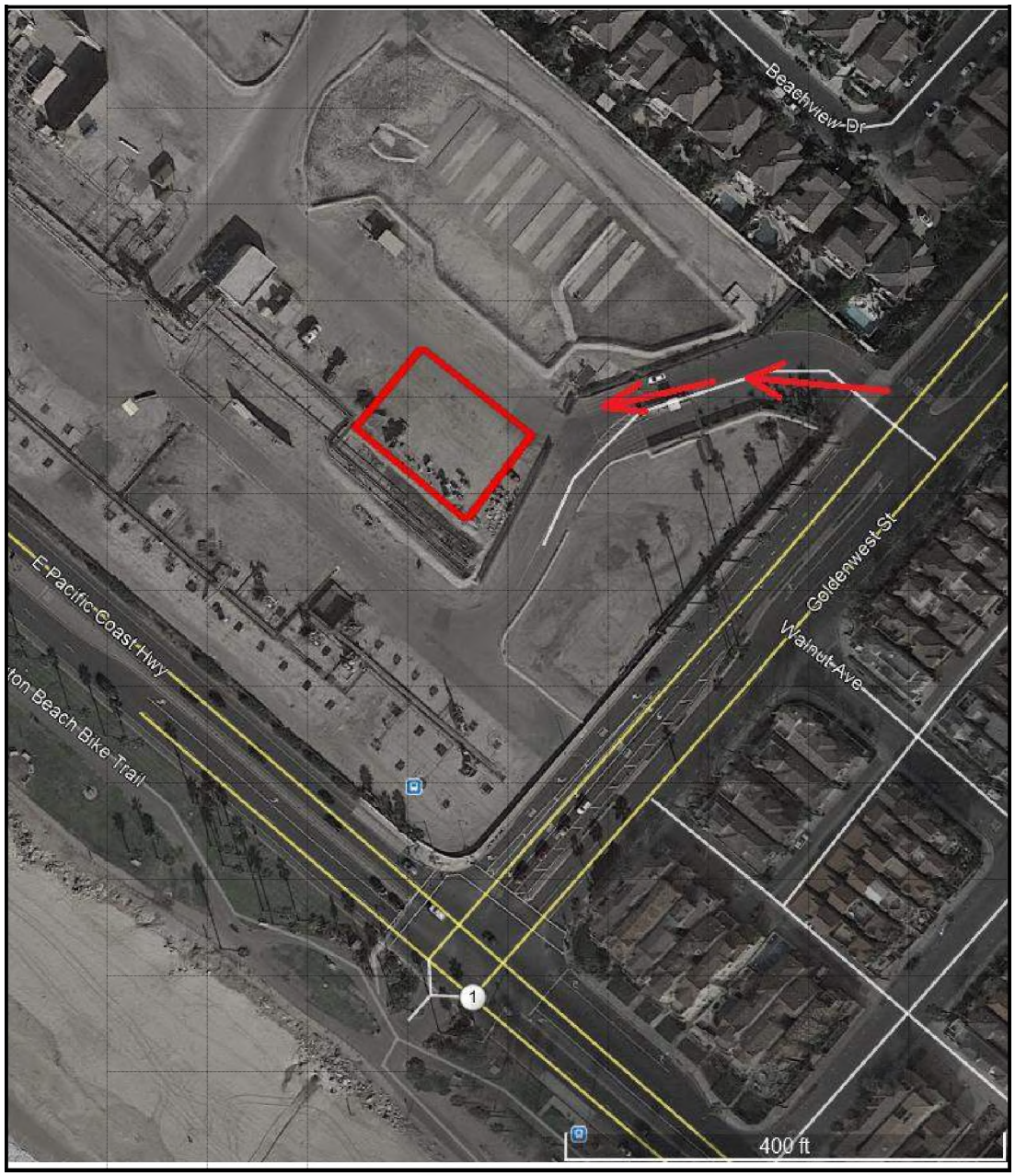
North

OFFICIAL USE ONLY			DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SITE MAP

BUSINESS NAME 3		
Southern California Gas Company, OM 2503		
SITE ADDRESS 103	CITY 104	ZIP CODE 105
20101 Goldenwest St	Huntington Beach	92648
DATE MAP DRAWN	MAP #	FACILITY ID # 1
7-19-2018	2 OF 2	



For Site Map

- Scale of Map
- Loading Areas
- Parking Lots
- Internal Roads
- Storm and Sewer Drains
- Adjacent Property Use
- Locations and Names of Adjacent Streets and Alleys
- Access and Egress Points and Roads
- Primary and Alternate Evacuation Routes
- Emergency Shut Off
- Excavation Areas

For Sub-Site Map

- Scale of Map
- Location of Each Storage Area
- Location of Each Hazardous Material Handling Area
- Location of Emergency Response Equipment

Scale:
1" = _____Ft.

North

OFFICIAL USE ONLY			DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

RECORD ID: FMF-023428

City of Huntington Beach

FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648

Phone (714) 536-5411 Fax (714) 374-1551 Email fireinspection@surfcity-hb.org

Hazardous Material Business Plan Report

Mailing Address	Location	Inspection Date
JOANA MORENO PO BOX 22830 BAKERSFIELD, CA 93390	20101 Goldenwest St Huntington Beach CA 92648	10/3/2024

Inspection Type: CUPA Routine

INSPECTION RESULT: No Violations

INSPECTION COMMENTS:

None

Inspector Name: NA NA
Inspector PIN: NA

Occupancy Representative: NA NA

The Huntington Beach Fire Department strives to provide excellent customer service.

City of Huntington Beach

FIRE DEPARTMENT
2000 Main Street, Huntington Beach, CA 92648
Phone (714) 536-5411 Fax (714) 374-1551 Email fireinspection@surfcity-hb.org

Fire Inspection Report

Mailing Address

JOANA MORENO
PO BOX 22830
BAKERSFIELD CA 93390

Location

[RD 3711] California Resources Production Corporation
20101 Goldenwest St
Huntington Beach, CA 92648

Inspection Date

10/3/2024

RECORD ID: FMF-023428

OIL WELLS:

API #	
405921148	State Prc 392-3T-40
405921150	State Prc 392-T-41
405921154	State Prc 392-T-25
405921155	State Prc 392-T-44
405921157	State Prc 392-T-47
405921158	State Prc 392-T-38
405921159	State Prc 91-60
405921160	State Prc 91-70
405921182	State PRC 392-T-28
405921183	State PRC 392-T-42
405921132	State Prc 392-T-21
405921136	State Prc 392-T-34
405921137	State Prc 392-T-35
405921112	State Prc 392-T-33

~ Smoke Detectors Save Lives ~

The Huntington Beach Fire Department strives to provide excellent customer service.

405921115	State Prc 392-T-32
405921077	State Prc 392-J-292
405921096	State Prc 392-S-173
405921102	State PRC 392-S-175
405921051	State Prc 91-38
405921054	State Prc 91-39
405921060	State Prc 91-61
405921073	State Prc 425-UMZ-587
405921061	State PRC 392 -CJ-288
405921003	State PRC 392 -UJ-285
405920984	State PRC 392-UJ-283
405920969	State PRC 392 -UJ-279
405920774	State PRC 392 -UJ-262
405900208	State PRC 392-J-71C
405920792	State PRC 392 -UJ-266
405920801	State PRC 392-UJ-269A
405920911	State PRC 392-UJ-274
405920916	State PRC 392-UJ-275
405920919	State PRC 392 -CJ-278A
405920920	State PRC 392 -UJ-277
405920921	State PRC 392-UJ-276
405920649	State PRC 392-UJ-174A
405920650	State PRC 392-T-12
405920651	State PRC 392-T-13
405920688	State PRC 392-UJ-250A
405920709	State Prc 91-34
405920711	State Prc 91-37
405920719	State PRC 392-J-252
405920721	State PRC 392 -UJ-253

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425920740	State PRC 425-UJ-257
405920248	State PRC 392 -UJ-189
405920106	State PRC 392 -J-163
405901921	State PRC 392 -J-1A
405901923	State PRC 392-UJ-3A
405901925	State PRC 392 -J-5 B
405902754	State PRC 392-B-1
405902756	State PRC 392-B-3
405902767	State PRC 392-B-15
405902769	State PRC 392 -B-17A
405902770	State PRC 392-B-18
405902771	State PRC 392 -B-19A
405902782	State PRC 392 -C-7
405902800	State PRC 392 -J-11C
405902807	State PRC 392-J-19C
405902810	State PRC 392 -CJ-24A
405902813	State PRC 392 -J-27A
405902817	State PRC 392 -S-152
405902818	State PRC 392-UJ-32A
405902819	State PRC 392 -J-33A
405902820	State PRC 392-UJ-34C
405902821	State PRC 392-S-164
405902828	State PRC 392 -J-46D
405902829	State PRC 392 -J-47B
405902831	State PRC 392 -J-50B
405902841	State PRC 392 -T-16
405902842	State PRC 392 -J-64D
425902843	State PRC 392 -UJ-65B
405902844	State PRC 392 -UJ-66A

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405902845	State PRC 392-J-68B
405902848	State PRC 392-J-74B
405902849	State PRC 392-J-75A
405902850	State PRC 392 -UJ-76B
425902852	State PRC 392-S-161
405902853	State PRC 392 -J-81A
405902869	State PRC 392 -J-99
405902870	State PRC 392 -CJ-78
405902871	State PRC 392 -J-100
405902872	State PRC 392-J-101A
405902874	State PRC 392 -J-104
405902875	State PRC 392 -T-11
405902877	State PRC 392 -J-108
405902879	State PRC 392 -J-110
405902883	State PRC 392 -J-115
405902885	State PRC 392 -T-15
405902890	State PRC 392 -T-17
405902900	State PRC 392 -J-135
405902901	State PRC 392 -UJ-136A
405902902	State PRC 392 -J-137
405902905	State PRC 392 -J-140A
405902915	State PRC 392 -S-1B
405902916	State PRC 392-S-2
405902917	State PRC 392 -S-3B
405902920	State PRC 392 -UJ-181
405902921	State PRC 392 -S-9
405902932	State PRC 392 -CJ-155
405902933	State PRC 392 -S-22B
425902938	State PRC 392 -S-28A

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405902941	State PRC 392 -J-184
405902943	State PRC 392 -S-34A
405902944	State PRC 392 -J-173
405902948	State PRC 392 -S-39B
405902950	State PRC 392 -S-42B
405902956	State PRC 392 -S-43A
405902960	State PRC 392 -S-47A
405902965	State PRC 392 -J-180
405902975	State PRC 392 -CJ-289
405902976	State PRC 392 -CJ-154
405902981	State PRC 392 -S-68
405902988	State PRC 392 -S-75B
405902994	State PRC 392 -S-81C
405903005	State PRC 392 -S-92A
405903006	State PRC 392 -S-93B
405903008	State PRC 392 -S-95A
405903011	State PRC 392-S-98
405903028	State PRC 392-J-182
405903032	State PRC 392-S-119A
405903033	State PRC 392-S-120
405903037	State PRC 392-S-124A
405903042	State PRC 392-S-129A
405903049	State PRC 392-CJ-179
405903050	State PRC 392-S-137A
405903058	State PRC 392-S-146
425903085	State PRC 392-S-162
405903094	State PRC 392-J-149
405903066	State Prc 425-502A
405903068	State Prc 425-504A

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405903072	State Prc 425-508
405903073	State Prc 425-509A
405903084	State Prc 425-520A
405903087	State Prc 425-523
405903096	State Prc 425-539
405903097	State Prc 425-540A
405903099	State Prc 425-551 A
405903100	State Prc 392-S-163
405903103	State Prc 425-555
405903107	State Prc 425-559A
405903108	State Prc 425-560 A
405903111	State Prc 425-563A
405903112	State Prc 425-564A
405903113	State Prc 425-565
405903118	State Prc 425-571
405903124	State Prc 392-UJ-176
405903125	State Prc 392-T-3
405903135	State Prc 392-S-160
405903139	State Prc 425-CJ-159
405921758	State Prc 425-752
405921761	State Prc 425-753
405900103	State Prc 392-J-40D
405900107	State Prc 392-J-67B
405900108	State Prc 392-J-72A
405900109	State Prc 392-J-80B
405900110	State Prc 392-J-93C
405900111	State Prc 392-J-143
405900113	State Prc 392-J-146
405900114	State Prc 392-UJ-148C

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405921762	State Prc 392-754 I
405921731	State Prc 392-730
405921732	Lease by California Resources Production Corporation-731
405921733	State PRC 392-732
405921734	State PRC 392 -733
405921735	State Prc 425-734 I
425921736	State Prc 425-735
425921739	State PRC 392-738
405921740	State Prc 425-739
405921723	State PRC 392 -722
425921724	State PRC 392 -723
405921725	State Prc 425-724
425921726	State Prc 425-725
405921727	State Prc 425-726
405921728	State Prc 425-727
405921730	State Prc 392-729
405921712	State Prc 392-741
405921711	Lease by California Resources Production Corporation-740
405921713	Lease by California Resources Production Corporation-742
405921714	Lease by California Resources Production Corporation-743
405921715	Lease by California Resources Production Corporation-744
405921716	State Prc 392-745 I
405921717	Lease by California Resources Production Corporation-746
405921718	Lease by California Resources Production Corporation-747
405921719	Lease by California Resources Production Corporation-748
405921720	Lease by California Resources Production Corporation-749
405921721	State Prc 425-720
425921722	State Prc 425-721
405921764	State Prc 392-731

~ Smoke Detectors Save Lives ~

The Huntington Beach Fire Department strives to provide excellent customer service.

425921729	State Prc 392-728
405921765	State Prc 425-735
425921737	State Prc 425-736
	State PRC 425 739-
	State PRC 425 750I-
	State PRC 425 752-
	State PRC 425 751I-
	State PRC 425 753-
	State PRC 425 754I-
	State PRC 425 735-

All occupancies within Huntington Beach must meet the requirements of the California Fire Code and the Huntington Beach Municipal Code. The Huntington Beach Fire Department conducted an inspection at the aforementioned address which revealed no violations.

Pursuant to the City Council approved fee schedule, a fee has been assessed for the fire inspection performed. An invoice for this inspection will be generated and mailed within three weeks of the inspection date. If you have any questions or concerns with this inspection, please contact the Fire Prevention Bureau at (714) 536-5411.

The following Huntington Beach Fire Code violations were reported: N/A

INSPECTION COMMENTS:

None

Sincerely,

Inspector Name: NA NA
chris.bird@surfcity-hb.org

Occupancy Representative: NA NA

~ Smoke Detectors Save Lives ~

The Huntington Beach Fire Department strives to provide excellent customer service.

Benefits of Using Accela!

The City of Huntington Beach has transitioned to the Customer Portal as the new online system for permitting and inspection services. This system allows our customers to access their records and perform actions to streamline the inspection process. Below are some of the services available to our customers when they register as Accela user.

- *Inspection History and Reports*
- *Pay Fees*
- *Upload Self-Correct Affidavits*
- *Schedule Inspections (Construction Only)*

Please visit our Customer Portal (http://bit.ly/2Y3Pf4m) to get started. For assistance, visit the Help Center (https://www.huntingtonbeachca.gov/departments/community_development/apply_now/index.php).

~ Smoke Detectors Save Lives ~

The Huntington Beach Fire Department strives to provide excellent customer service.

HUNTINGTON BEACH FIRE DEPARTMENT

2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5411 • FAX (714) 374-1551

F2014-003997
MD 6/26/14 - 1st

Application and Permit for *(check one)*:

☐ **Existing Well Redrill / Rework** *(Simple $190 – Complex $460)*
☐ **Idle Well Activation** *(Simple $190 – Complex $460)* ☑ **Oil Well Drilling** *($460)* JDE

Applicant Information

Applicant's Name: **OXY USA Inc.** Phone: **(562) 624-3400**

Address: **111 West Ocean Blvd, Suite 800** City: **Long Beach** State: **CA** Zip: **90802**

Representative Name: **Scott Walker - Agent** Phone: **(562) 624-3169**

24-Hour EMERGENCY Phone Number: **(562) 624-3452**

Well Information

Drilling or Redrill / Rework Contractor: **Ensign United States Drilling (California) Inc.** Phone: **(661) 589-0111**

Address: **7001 Charity Avenue** City: **Bakersfield** State: **CA** Zip: **93308**

State Contractor's License #: **222619** City Business License #: ~~A282305~~ Ex 10/31/14

Department of Conservation Division of Oil & Gas **PERMIT NUMBER**: **# P-114 - 0432** A283984

24-Hour EMERGENCY Phone Number ** **REQUIRED**** Phone: **(714) 816-6847**

Well Name: **State PRC 392** Well Number: **729** Well API#: **259 - 21730**

Address or Location of Well: **20101 Goldenwest St, Huntington Beach, CA.**

North American Datum 1983 – State Plane Zone #6 GPS: X-Coordinate 6021658.8 Y-Coordinate 2193709.5

Type of Well: ☑ Oil ☐ Gas ☐ Injection ☐ Water ☐ Other _____

All requests for permits are processed in Fire Administration and must be paid prior to any permit issuance. **Make checks payable to the CITY OF HUNTINGTON BEACH. NO CASH PLEASE.** Fees will be charged according to the Huntington Beach Fire Department (HBFD) fee schedule. The HBFD, depending on the nature of the permit and the risk involved, may require additional plans, inspections and fees. Permits are valid for six months maximum from the date of issuance and are non-transferable. A new permit shall be required when there is a change in use, business operation or ownership. All permits are subject to six-month renewal and must have fees paid prior to the expiration date. Any decision by the City on this application may be appealed to the City Planning Commission and the City Council by the Applicant, or by any interested person pursuant to the appeal procedure contained in Huntington Beach Municipal Code section 15.12.180. Inspections must be scheduled at least 48-hours in advance and can be arranged by contacting Fire Administration at (714) 536-5411.

I am duly authorized on behalf of the operator to sign and file the application certifying that the information contained in the application is true and correct.

Applicant's Signature: Scott Walker **Date:** 6/25/14

Additional Requirements (To be competed by Inspector)

- ☑ Planning Dept. Approval 99 8-1-14
- ☑ Legal Description of Property
- ☐ Public Works Grading Permit N/A
- ☑ Noise Abatement Plan
- ☐ Perimeter Fencing
- ☐ Other _____
- ☐ Building / Electrical / Plumbing Permit N/A
- ☐ Plans and Engineering Specifications
- ☐ Public Works Compaction Report
- ☑ Double Mufflers
- ☐ Post 24-Hour EMERGENCY Phone Number
- ☐ Explosive Permit
- ☑ DOGGR Permit
- ☑ Plot Plan
- ☑ Proof of Insurance
- ☑ Exhaust Stacking

* *Complete a Fire Code Permit Application form FD114*

Inspection – NOT VALID WITHOUT AN INSPECTOR'S SIGNATURE

Inspector's Signature: Inspector's Pin #

Comments:

Office Use ONLY

ACCOUNT: 10000100.47970 **Permit Fee:** 460 - **Amount Received:** 460

Grid: File#: Inspector: Posted by:

Prepared by: KV Date Received: 6-26-14 Check #: CC Cash Receipt #:

Copy To: ☐ Oil Inspector ☐ Treasurer ☐ Finance ☐ Applicant ☐ District Inspector

CITY OF HUNTINGTON BEACH

DEPARTMENT OF BUILDING & SAFETY
2000 Main St., Huntington Beach, CA 92648
For Inspections Call: (714) 536-5241

Inspector:
Brown, James (714) 374-1694

FIRE PERMIT

Permit Number:	F2014-003997	**Sprinklered?**	No	**Valuation:**	$0.00
Date Issued:		**Zone:**	SP12-CZ	**Coastal Permit?**	No
Building Address:	20101 Goldenwest St	**Block**		**No. Families:**	
Date Entered:	06/26/2014	**Tract:**	15795	**No. Stories:**	
Building Use:		**Lot:**	M	**Public Building?**	No

Owner	**Contractor**	
WIN2DATA	ENSIGN UNITED STATES DRILLING (CALIFORNI 7001 CHARITY AVENUE BAKERSFIELD CA 93308 6615890111	

Project Description: OIL WELL DRILLING API# 259-21730, WELL NAME: "STATE PRC 392 WELL NUMBER 729." DRILLING OF OIL WELL IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CALIFORNIA FIRE CODE, CITY OF HUNTINGTON BEACH OIL CODE, AND HUNTINGTON BEACH MUNICIPAL CODE. SEE LETTER SIGNED BY SCOTT WALKER, P.E./ OXY OPERATIONS ENGINEERING LEADER DATED 6-25-14 AND STAMPED BY THE HBFD FOR DOCUMENTATION ON REQUIREMENTS. INSPECTION REQUESTS TO THE HBFD SHALL BE MADE AT LEAST 3 BUSINESS DAYS IN ADVANCE.

Occ. Group	**Construction Type**	**Occupancy Load**

Permit Fees:	**Inspection:**	$0.00	**Park & Rec:**	$0.00	**Microfilm:**	$0.00
	Building Plan Review:	$0.00	**Library:**	$0.00	**Penalty:**	$0.00
	Planning Plan Review:	$0.00	**Traffic Impact:**	$0.00	**Extension:**	$0.00
	Processing:	$0.00	**Dev Impact Fees:**	$0.00	**C/O:**	$0.00
	SMIP:	$0.00	**Demolition:**	$0.00	**Permit Total:**	$460.00
					Outstanding Amount:	$0.00

Permit Details				**Permit Fees:** **Inspection**	**Plan Review**
Fire	**Related Items**	**Unit Type**	**Quantity**		$460.00

WORKERS' COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section3700 of the Labor Code, for the performance of the work for which this permit is issued.
[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation policy information is: Carrier: SEE FILE Policy Number: Expires:
Agent:_____ Phone () -
[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provision of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3700 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. License No.: 222619 License Class: D09
Contractor's Signature:_____ Date:_____
IF WORK IS NOT COMMENCED 180 DAYS FROM DATE OF ISSUE OF THIS PERMIT, OR IF THE WORK IS ABANDONED FOR MORE THAN 180 DAYS, THIS PERMIT SHALL BE SUBJECT TO EXPIRATION.

OWNER-BUILDER DECLARATION (Declaration Form Attached)

OXY USA Inc.
LA Basin Asset
A subsidiary of Occidental Petroleum Corporation

111 West Ocean Blvd, Suite 800
Long Beach, CA 90802

HBFD Set

Approved HBFD

JUL 01 2014

June 25, 2014

Division Chief - Bill Reardon
City of Huntington Beach Fire Department
2000 Main St, 5th Floor
Huntington Beach, CA 92648

Subject: Oil Producer Well "State PRC 392" 729, API No. 259-21730, Huntington Beach Field

Chief Reardon:

This letter requests your approval for the "State PRC 392" 729, API No. 259-21730, oil producer well, to be drilled from the Huntington Beach onshore strip. At this time, the anticipated spud date for the well is October 31, 2014. We will be in contact with your staff if this timing changes.

The following text documents our compliance with the requirements of the California Fire Code, Section 5706.3, pertaining to well drilling and operating and to the requirements of the Huntington Beach Oil Code. Compliance with any sections of the Huntington Beach Municipal Code (HBMC) not herein mentioned shall also be adhered to.

Storage tanks and sources of ignition
The drilling rig package includes a portable diesel tank which will fuel a backup generator in the event that the rig loses primary power from the grid. This fuel tank, as well as open-flame devices and other sources of ignition (any flame, arc, spark or heated object or surface capable of igniting liquids, gases or vapors) necessary to the drilling of the well, will not be located within 25 ft of the well location. All electrical equipment used, installed or maintained within 50 feet of the drilling rig, or within 25 feet of any other oil operation will be installed and maintained in accordance with all applicable state and municipal regulations. No boiler, pass-through boiler, steam generator, direct-fired heater, gas or oil-burning device, or other open flame will be located closer than 25 feet to the wellhead or oil storage tank. Smoking will be limited to designated areas only, away from the drill site.

Streets and railways
The well will not be drilled within 75 ft of public streets or highways (see attached "State PRC 392" 729 Well Setback Map).

Buildings
The well will not be drilled within 100 ft of any current or future buildings (see attached "State PRC 392" 729 Well Setback Map).

Waste control
Rotary mud, drill cutting, oil or liquid hydrocarbons and all other oil field wastes derived or resulting from, or connected with the drilling or reworking of any well will be discharged into a portable steel tank. Waste materials will be removed from the operation site within 30 days from the completion of drilling, and shall be processed or disposed of according to all applicable city, county, state, and federal regulations.

Approved HBFD

JUL 01 2014

J. Glen

F-2014 08 3997

Oxy USA Inc.
Well "State PRC 392" 729, API No. 259-21730, Huntington Beach Field

Sumps
Sumps will not be used as part of the drilling operation.

Storage tanks
There are no oil storage tanks in the vicinity of the drill location.

Prevention of blowouts
In all cases, protection will be provided to prevent a blowout during oil operations as required by and in conformance with the requirements of the California Division of Oil, Gas & Geothermal Resources (CDOGGR), and the safety orders for drilling and production of the State Division of Industrial Safety. Oxy understands that violations of this section will constitute a misdemeanor punishable as set forth in the HBMC. Testing of the BOP will be witnessed and approved by the CDOGGR. See attached approved permit from the CDOGGR.

Soundproofing
An exhaust muffler, or mufflers or an exhaust muffler box constructed of noncombustible materials sufficient to suppress noise and prevent the escape of obnoxious gases, fumes or ignited carbon or soot will be used on the exhaust from any steam engine, internal combustion engine, stationary or mounted on wheels, used in connection with the drilling of any well or for use on any production equipment. The derrick and all drilling machinery used in connection with drilling of any well shall be enclosed with soundproofing material that is non-combustible, which will be maintained in a serviceable condition in accordance with section 15.20.100 of the Huntington Beach Oil Code. Oxy will adhere to the requirements within Chapter 8.40 of the HBMC, Noise Control.

Signs
The surface location of all wells will be confined within the OXY USA Inc. Huntington Beach property. The lease is enclosed by a fence and block wall and access to the location is through a guarded gate on Goldenwest Street. At the entrance of the property is a sign with the name of the operator (OXY USA Inc.) and telephone numbers to call in the event of an emergency. Similarly, each well (whether producing or not) has a sign with the well name, well number and name of the operator. No smoking signs of durable material will be posted and maintained in all locations approved or designated by the Fire Chief.

Use of Explosives
After the well has been drilled, the drilling rig will move off and a well service rig will move on and complete the well. Part of the completion process will involve perforating the steel casing in the wellbore to access the target formation zone. This will be accomplished by firing 38g charges at a density of 5 shots per foot over an interval of ~1,300 ft. The guns will be fired at ~5,700 ft below ground level and will not be detectable at surface. There will be no noise or vibration impact to the rig crews or neighboring homes. The perforating contractor is fully licensed to perform the work and has all the necessary permits for transporting explosives.

Derricks
The contracted drilling rig is a custom built, fully enclosed, 1500 hp automated drilling rig supplied by Ensign Drilling. The rig is fully electric and will run off the Southern California Edison power grid. The drilling derrick meets the standards and specifications of the American Petroleum Institute (API) as they

Approved HBFD
JUL 0 1 2014

presently exist or may be amended hereafter. Stamped engineering drawings of the drilling derrick have been previously provided to the Fire Department as part of this application package. All drilling, redrilling or reworking equipment will be removed from the operation site within 30 days following the completion of drilling, redrilling or reworking unless otherwise permitted by the Division of Oil and Gas.

Inspection
The well will be drilled within 150 ft of Pacific Coast Highway. After the operating equipment is securely in place and prior to commencement of drilling, Oxy will notify the Fire Department for the purpose of inspection. If an inspection is anticipated to be needed other than during normal working hours, Oxy will notify the Fire Department during a working day of the approximate time for the inspection and will not commence drilling until the Fire Department has made an inspection and given approval to commence. Oxy understands that the Fire Department will not approve the permit until all applicable provisions of the Huntington Beach Municipal Code (HBMC) have been met. Upon completion of drilling operations, Oxy will notify the Fire Department, and the Fire Department will make an inspection of the drill site to insure that provisions of the HBMC and any conditions of the drilling permit have been met.

Well Setbacks
The well will not be drilled within 25 ft of any property boundary line. The well will also not be drilled within 25 ft of any recovery heater, oil storage tank, or source of ignition. The well will not be drilled within 100 ft of any building. The well will not be drilled within 300 feet of any building used as a place of public assembly, institution or school. The well will not be drilled within 25 feet of any public street, road or highway or future street right-of-way. Setbacks will conform to appropriate provisions of the HBMC. See attached "State PRC 392" 729 Well Setback Map.

Wellhead Safety Equipment
On all wells there will be connected to the casing string a 2" steel valve with a rated working pressure equal to that of the wellhead, for the purpose of bleeding off casing pressure and for hookup to kill the well in case of an emergency. Oxy understands that violations of this section will constitute a misdemeanor punishable as set forth in the HBMC.

Cellars
Except during drilling and servicing operations, cellars will be kept covered, free from water, oil drilling fluids, rubbish, debris, and other substances. All multiwell cellars exceeding three feet in depth and 25 feet in length will have two separate means of exit or entrance. If the cellar exceeds 200 feet in length, a third means of entrance and exit will be provided. The depth of such cellars will be the vertical distance between the lowest point of the floor of such cellar and the adjacent ground level. Multiwell cellars will have a steel grate or covering with no unobstructed openings in excess of three inches.

Additional Safety Requirements
Belts guards shall be required over all drive belts used on oilfield equipment. Guarding shall be as required by Title 8 of the California Administrative Code, subchapter 14, Section 6622.

Fencing shall be provided/maintained in accordance with Section 15.20.160 of the Oil Code.

Fire hydrants shall be inspected, tested, and maintained in accordance with NFPA 25.
Fire lanes shall be maintained in accordance with City Specification 401.

Approved HBFD

JUL 01 2019

Oxy USA Inc.
Well "State PRC 392" 729, API No. 259-21730, Huntington Beach Field

The information contained herein applies to wells planned to be drilled at Oxy's Huntington Beach lease. However, the exact surface location coordinates, which will be updated on individual well application forms going forward, will change for each well to be drilled. If any of the above information changes, we will inform your staff in writing as soon as practical.

If you need any further information, or if you have any questions regarding the drilling operation, please contact me at (562) 624-3169.

Sincerely,



Scott Walker, P.E.
Operations Engineering Leader
OXY USA Inc. | LA Basin Asset
Office: (562) 624-3169
Email: scott_walker@oxy.com

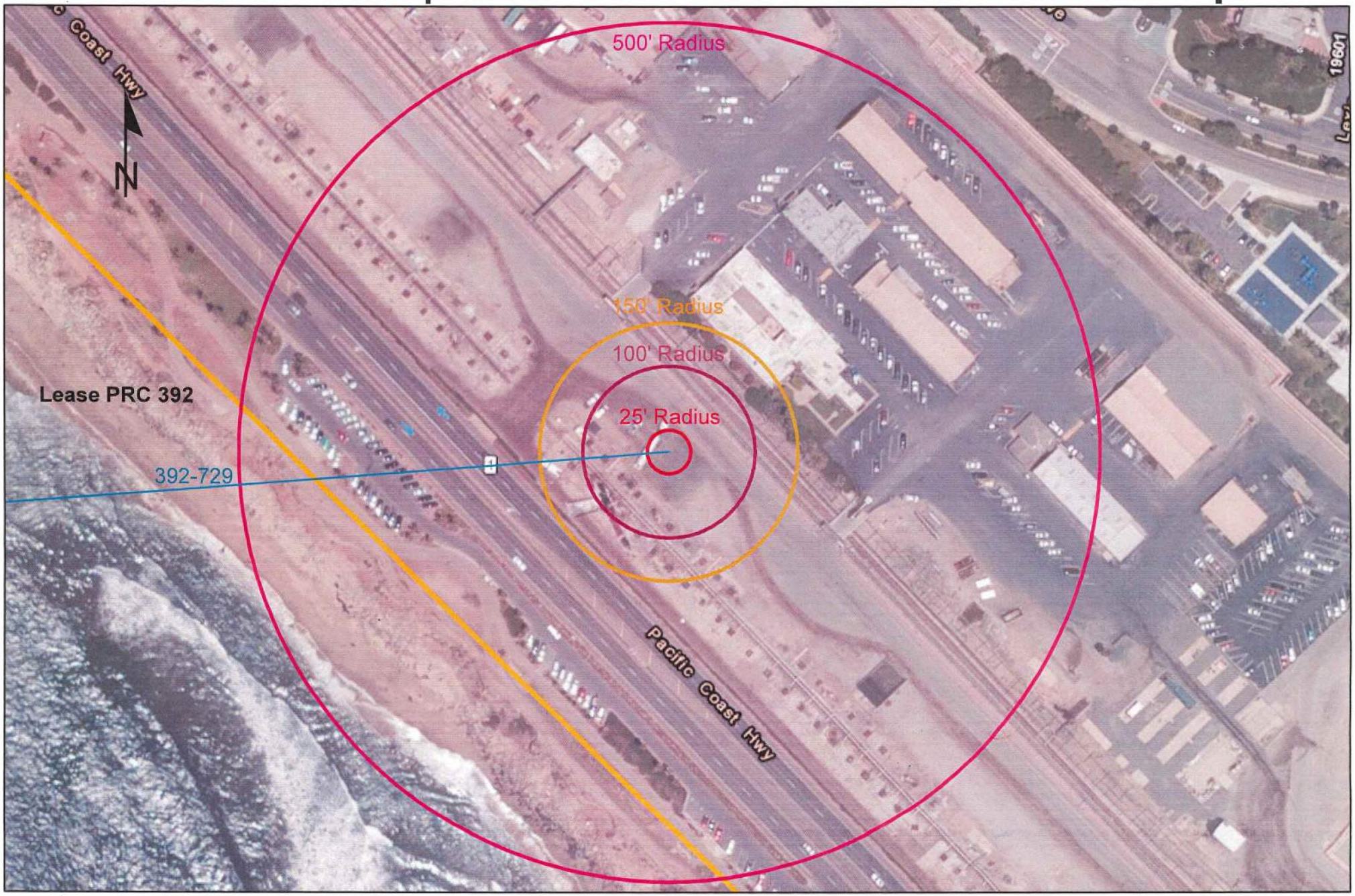
The above individual has signed this document under penalty of perjury declaring that he is duly authorized on behalf of the operator to sign and file the application certifying that the information contained in the application is true and correct.

Attachments (two copies of each submitted with letter)

1. "State PRC 392" 729 Well Setback Map
2. CDOGGR Permit

Approved HBFD
JUL 01 2014

OXY USA INC. | "State PRC 392" 729 Well Setback Map



Approved HBFD

JUL 01 2014

1 inch = 150 feet

0 80 160 320 480 640

Feet

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 114-0432

Old	New
320	320
FIELD CODE	
21	18
AREA CODE	
--	00
POOL CODE	

PERMIT TO CONDUCT WELL OPERATIONS

TIDELAND WELL
CRITICAL WELL

Cypress, California
June 13, 2014

Mr. Scott Walker, Agent
Oxy USA Inc. (O2475)
111 W. Ocean Blvd., 8th FL
Long Beach, CA 90802

Your proposal to **Drill** well **"State Prc 392" 729**, A.P.I. No. **259-21730**, Section **4**, T. **06S**, R. **11W**, **SB** B. & M., **Huntington Beach** field, **Offshore** area, **Upper and Lower Main** pool, **Orange Offshore** County, dated **6/11/2014**, received **6/11/2014** has been examined in conjunction with records filed in this office. (Lat: **33.674664** Long: **-118.025019** Datum: **83**)

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
   a. A **6" diverter system** on the **20"** casing.
   b. Class **IIIB3M,** with hydraulic controls, during **drilling** operations.
   c. Class **III3M,** with hydraulic controls, during **completion** operations.
   d. A **3M lubricator** for **wireline** operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. Sufficient material to control lost circulation of hole fluid shall be available for immediate use at the well site.
5. The **9-5/8"** casing is cemented with sufficient cement to fill behind the casing from the shoe to the surface.
6. The **7"** casing is cemented with sufficient cement to fill behind the casing to at least 500' above all oil, gas zones and/or anomalous pressure intervals and to at least 100' above the base of freshwater zone, if present.
7. A directional survey shall be made and filed with this division within 15 days of completion of drilling.
8. The producing interval of this well is not less than 75 feet from the outer boundary of the parcel of land into which the well is drilled, and is not less than 150 feet, as measured horizontally, from the producing interval of any other well in the same zone.
9. Once drilled the well location shall be surveyed and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83.
10. Water shutoff effectiveness is demonstrated by use of either a **formation tester** above the intended zone of completion or by running both a **radial cement evaluation tool** from the casing shoe to **500'** above the upper

(Continued on page 2)

Blanket Bond
cc: Update
EDP
State Lands Commission

Steven Bohlen
State Oil and Gas Supervisor

Engineer Grace Brandt
Office (714) 816-6847

By
For Daniel J. Dudak, *District Deputy*

GB/gb

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

Approved Hold

OG111 (revised 6/2011)

JUL 01 2014

most hydrocarbon zone (UHZ) and **production test** within **60** days of the well being placed on production.

11. No program changes are made without prior Division approval.
12. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the diverter system prior to commencing **drilling** operations.
    b. Witness a test of the installed blowout prevention equipment prior to drilling out the shoe of the **9-5/8"** casing.
    c. Inspect the installed blowout prevention equipment prior to commencing **completion** operations.
    d. Witness a test of the effectiveness of the **7"** shutoff above the **Upper Main** zone by either formation tester or production water shutoff test.

NOTE:

1. Prior to notifying the Division engineer to witness the test, the blind rams must be tested. Information on the blind rams test must be entered on the tour sheet along with the signature of the person in charge.
2. In order to coordinate field surveillance, please contact this office prior to commencing operations.
3. Hydrogen sulfide gas (H_2S) is known to be present in this area, adequate safety precautions shall be taken prior to and during well operations.
4. The base of the freshwater zone should be encountered at **1231'± md**.
5. Upon completion of the proposed work, a Well Summary (form OG100), History of Oil or Gas Well (form OG103) and copies of all logs, tests, and surveys shall be submitted to this office, noting the effective date of activation.
6. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.
7. **Any well stimulation conducted after January 1, 2014 will be subject to Senate Bill 4 (Chapter 313, 2013 Statute) requirements.**

HUNTINGTON BEACH FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648
(714) 536-5411 Fax (714) 374-1551

№ 000625

7/7/2010 4:04:18 PM
300000110182 74
City Treasurer Receipts
$565.00
Check

FIRE CODE PERMIT APPLICATION

Applicant Information

Applicant's Name:

Business Name: Aera Energy LLC Phone: 714 969-3514

Address: 20101 Goldenwest St City: HB State: CA Zip: 92648

Fire Permit Location

Business Owner:

Business Name: Aera Energy LLC - for Apache Phone:

Address: 1801 PCH City: HB State: CA Zip: 92648

All requests for permits are processed in Fire Administration and must be paid prior to any permit issuance. **Payment by check made out to the CITY OF HUNTINGTON BEACH is accepted in the Fire Department. All other types of payments are accepted in the City Treasurer's Office.** Fees will be charged according to the Huntington Beach Fire Department fee schedule. The Fire Department, depending on the nature of the permit and the risk involved, may require additional plans, inspections, and fees. Permits are renewed annually and are non-transferable. A new permit shall be required when there is a change in use, occupancy, business operation, or ownership. All permits that are subject to annual renewal must have fees paid prior to the anniversary date. Inspections must be scheduled 48-hours in advance and can be arranged by contacting Fire Administration at (714) 536-5411.

Applicant's Signature: [signature] **Date:** 7/1/10

Operational Fire Permit Description HBFC Section 105.6

- ☐ .4 Carnivals & fairs
- ☐ .6 Combustible dust collecting
- ☐ .8 Compressed gases
- ☐ .12 Dry cleaning plants
- ☐ .16 Flammable or combustible liquids
- ☐ .19 Fumigation & thermal insecticidal fogging
- ☐ .20 Hazardous materials
- ☐ .22 High-piled combustible storage
- ☐ .23 Hot works (welding)
- ☐ .27 Liquefied petroleum gases (LPG)
- ☐ .32 Open flames and candles
- ☐ .34 Places of assembly
- ☐ .39 Repair garage & motor vehicle fuel dispensing
- ☐ .41 Spraying or dipping processes
- ☐ .43 Temporary membrane structures, tents & canopies
- ☒ Other

Additional permit requirements, description, and/or activity dates:

Permit Code: HBMC 15.12.030 - Annual Oil Well Permit

Permit Code:

Permit Code:

Plans and Specifications Required

1. Equipment installations and modifications
2. Special events
3. High piled storage (interior/exterior)
4. Fireworks displays
5. Other permit items as required
6. For any permit listed in HBFC Section 105.7

ACCOUNT: 10000100.42120

Permit Fee: $565.-

Amount Received: $565.-

Grid: 3913 File #: MW-3 000003 Inspector: Brown

Prepared by: [signature] Date Received: 7/1/10 Check #: 1006 Posted by: [signature]

White: Inspector Green: Treasurer Yellow: Finance Pink: Fire Administration Gold: Applicant

FD114 (05/08) FP
S:\Forms\Prevention\FD114 Fire Code Permit Application.doc

10-15-10

Fire Department Use Only

Type of Permit: ☒ Annual ☐ Temporary

Valid Period: From 7/1/10 To 7/1/11

Plans Submitted: Date _____

Plans Reviewed: Date _____

On-site Inspections: (list date and total time involved for each required inspection)

Date 10/12/10 Total Time 1 hr Date _____ Total Time _____

Date _____ Total Time _____ Date _____ Total Time _____

Permit description, conditions or restrictions:

Occupancy Classification — Occupant Load —

Permit Issue Date 7/1/10 Inspector/PIN 0170

Plot Plan

HUNTINGTON BEACH FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648
(714) 536-5411 Fax (714) 374-1551

№ 000624

FIRE CODE PERMIT APPLICATION

Applicant Information

Applicant's Name:

Business Name: AERA Energy LLC Phone: 7149683287

Address: 20101 GOLDEN WEST AVE City: HB State: CA Zip: 92648

Fire Permit Location

Business Owner:

Business Name: AERA Energy LLC- main Facility Phone:

Address: 20101 Goldenwest St City: HB State: CA Zip: 92648

All requests for permits are processed in Fire Administration and must be paid prior to any permit issuance. **Payment by check made out to the CITY OF HUNTINGTON BEACH is accepted in the Fire Department. All other types of payments are accepted in the City Treasurer's Office.** Fees will be charged according to the Huntington Beach Fire Department fee schedule. The Fire Department, depending on the nature of the permit and the risk involved, may require additional plans, inspections, and fees. Permits are renewed annually and are non-transferable. A new permit shall be required when there is a change in use, occupancy, business operation, or ownership. All permits that are subject to annual renewal must have fees paid prior to the anniversary date. Inspections must be scheduled 48-hours in advance and can be arranged by contacting Fire Administration at (714) 536-5411.

Applicant's Signature: [signature] **Date:** 6/17/10

Operational Fire Permit Description HBFC Section 105.6

- ☐ .4 Carnivals & fairs
- ☐ .6 Combustible dust collecting
- ☐ .8 Compressed gases
- ☐ .12 Dry cleaning plants
- ☐ .16 Flammable or combustible liquids
- ☐ .19 Fumigation & thermal insecticidal fogging
- ☐ .20 Hazardous materials
- ☐ .22 High-piled combustible storage
- ☐ .23 Hot works (welding)
- ☐ .27 Liquefied petroleum gases (LPG)
- ☐ .32 Open flames and candles
- ☐ .34 Places of assembly
- ☐ .39 Repair garage & motor vehicle fuel dispensing
- ☐ .41 Spraying or dipping processes
- ☐ .43 Temporary membrane structures, tents & canopies
- ☒ Other

Additional permit requirements, description, and/or activity dates:

Permit Code: HBMC 15.12.030- Annual Oil Well Permit

Permit Code:

Permit Code:

Plans and Specifications Required
1. Equipment installations and modifications
2. Special events
3. High piled storage (interior/exterior)
4. Fireworks displays
5. Other permit items as required
6. For any permit listed in HBFC Section 105.7

6/28/2010 2:25:34 PM
10000110180 103
City Treasurer Receipts
$16,015.00

ACCOUNT: 10000100.42120

Permit Fee: $16,015.-

Amount Received: $16,015.-

Grid: 3812 File #: MW-000001 Inspector: BROWN

Prepared by: [signature] Date Received: 6-28-10 Check #: 451792 Posted by: [signature]

White: Inspector Green: Treasurer Yellow: Finance Pink: Fire Administration Gold: Applicant

10-15-10

Fire Department Use Only

Type of Permit: ☒ Annual ☐ Temporary

Valid Period: From 6/28/10 To 6/28/11

Plans Submitted: Date _____

Plans Reviewed: Date _____

On-site Inspections: (list date and total time involved for each required inspection)

Date 10/5/10 Total Time 4 hrs Date 10/12/10 Total Time 4 hrs

Date _____ Total Time _____ Date _____ Total Time _____

Permit description, conditions or restrictions:

Occupancy Classification A1 field Occupant Load —

Permit Issue Date 6/28/10 Inspector/PIN 0170

Plot Plan

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT WELL PERMIT

AERA ENERGY LLC - PLATFORM EMMY
AERA ENERGY LLC - PLATFORM EMMY
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

Effective Date: 07/01/2010
Expiration Date: 07/01/2011

OFFC 714-969-3272

PERMITTEE: BRENT BOYCE
LOCATION: 20101 GOLDENWEST

OCCUPANCY ID: MW-000002 DISTRICT: 3811 OCCUPANCY TYPE: 00

15.12.010 Permit required. Permits shall be obtained from the City of Huntington Beach for the oil operations, activities, or structures in the City limits of Huntington Beach, as required by this title. (2491-7/81)

15.12.160 Grounds For Suspension Or Revocation. The Fire Chief may suspend or revoke any permit issued by the Fire Department under the provisions of this code upon finding any of the following: (3037-5/90)
(a) A permittee has failed, neglected or refused to perform, comply with or abide by any of the conditions of the permit; (3037-5/90)
(b) That permittee has failed or neglected or refused to comply with or abide by, or has in any way violated any of the provisions of this code, or of any other ordinance of the City, or any other law, rule, or regulation either directly or indirectly, by reason of or in connection with or incidental to his conduct of oil operations;
(c) If any of the permittee's operations or the continuance thereof upon the premises covered by the permit are a menace or hazard to public or private property, or to any interest of the City, or to the lives or safety of persons;
(d) Any of the permittee's operations or the continuance thereof upon the premises covered by the permit constitutes a public nuisance as described in this title;
(e) Permittee has made a willful misrepresentation of facts in any application for any such permit, or in any report or record required by this code to be filed or furnished by permittee.
(2491-7/81, 3037-5/90)
The Fire Chief will set forth his findings in writing and send notice of the same to the permittee. Said notice will contain a date upon which the suspension or revocation takes effect. (3037-5/90)

15.12.170 Effect Of Suspension Or Revocation Of Permit. No person shall carry on any operations performed under the terms of any permit during any period of permit suspension or revocation, or pending a judgment of the court of law upon any application for writ taken to review the decision or order of the City in suspending or revoking such permit; provided, however, that nothing therein contained shall be construed to prevent the performance of such operation as may be necessary in connection with a diligent and bona fide effort to cure and remedy the default or violation for which the suspension or revocation of the permit was ordered, or such operation as necessary for the safety of persons or as required by the Division of Oil and Gas. (2491-7/81)

15.12.030 Annual Well Permit NUMBER OF PERMITTED WELLS: 42

ISSUED BY: Huntington Beach Fire Department
PRINTED ON: 07/06/2010

6

HUNTINGTON BEACH FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648
(714) 536-5411 Fax (714) 374-1551

№ 000622

FIRE CODE PERMIT APPLICATION

Applicant Information

Applicant's Name:

Business Name: Aera Energy LLC Phone: 714 969-3287

Address: 20101 GOLDENWEST AVE City: HB State: CA Zip: 92648

Fire Permit Location

Business Owner:

Business Name: AERA Energy LLC- Platform Emmy Phone:

Address: 20101 Goldenwest St City: HB State: CA Zip: 92648

All requests for permits are processed in Fire Administration and must be paid prior to any permit issuance. **Payment by check made out to the CITY OF HUNTINGTON BEACH is accepted in the Fire Department. All other types of payments are accepted in the City Treasurer's Office.** Fees will be charged according to the Huntington Beach Fire Department fee schedule. The Fire Department, depending on the nature of the permit and the risk involved, may require additional plans, inspections, and fees. Permits are renewed annually and are non-transferable. A new permit shall be required when there is a change in use, occupancy, business operation, or ownership. All permits that are subject to annual renewal must have fees paid prior to the anniversary date. Inspections must be scheduled 48-hours in advance and can be arranged by contacting Fire Administration at (714) 536-5411.

Applicant's Signature: [signature] **Date:** 6/17/10

Operational Fire Permit Description HBFC Section 105.6

- ☐ .4 Carnivals & fairs
- ☐ .6 Combustible dust collecting
- ☐ .8 Compressed gases
- ☐ .12 Dry cleaning plants
- ☐ .16 Flammable or combustible liquids
- ☐ .19 Fumigation & thermal insecticidal fogging
- ☐ .20 Hazardous materials
- ☐ .22 High-piled combustible storage
- ☐ .23 Hot works (welding)
- ☐ .27 Liquefied petroleum gases (LPG)
- ☐ .32 Open flames and candles
- ☐ .34 Places of assembly
- ☐ .39 Repair garage & motor vehicle fuel dispensing
- ☐ .41 Spraying or dipping processes
- ☐ .43 Temporary membrane structures, tents & canopies
- ☒ Other

Additional permit requirements, description, and/or activity dates:

Permit Code: HBMC 15.12.030 - Annual Oil Well Permit

Permit Code:

Permit Code:

Plans and Specifications Required

1. Equipment installations and modifications
2. Special events
3. High piled storage (interior/exterior)
4. Fireworks displays
5. Other permit items as required
6. For any permit listed in HBFC Section 105.7

ACCOUNT: 10000100.42120

Permit Fee: ~~$3265~~

Amount Received: $3265

6/29/2010 2:24:38 PM
10000011018D 102
City Treasurer Receipts
$3,265.00
Jeff

Grid: 3811 File #: MW 2 Inspector: BROWN

Prepared by: [signature] Date Received: 6-28-10 Check #: 451793 Posted by:

White: Inspector Green: Treasurer Yellow: Finance Pink: Fire Administration Gold: Applicant

Fire Department Use Only

Type of Permit: ☒ Annual ☐ Temporary

Valid Period: From 6/28/10 To 6/28/11

Plans Submitted: Date _____

Plans Reviewed: Date _____

On-site Inspections: (list date and total time involved for each required inspection)

Date 5/27/10 Total Time 4 hrs Date _____ Total Time _____

Date _____ Total Time _____ Date _____ Total Time _____

Permit description, conditions or restrictions:

Occupancy Classification _____ Occupant Load _____

Permit Issue Date 6/28/10 Inspector/PIN 0170

Plot Plan

CITY OF HUNTINGTON BEACH
2000 MAIN STREET
FIRE DEPARTMENT
CALIFORNIA 92648

June 9, 2010

AERA ENERGY LLC - MAIN FACILITY (CITY)
20101 GOLDENWEST ST
HUNTINGTON BEACH CA, 92648

RE: ANNUAL WELL PERMIT REQUIRED

Dear CORBIN WEED:

The Huntington Beach Oil Code was established in 1981 to set reasonable and uniform limitations, safeguards and controls for present and future operations related to drilling for the production of oil, gas, and other hydrocarbon substances within the city of Huntington Beach. Section 15.12.030 requires that an annual well permit be renewed by July 1st of every year following the drilling of a new well or operation of an existing well.

Effective July 1, 2010, the Fire Department is requiring all well operators to apply for an annual well permit for locations where operations are being conducted. Pursuant to Section 15.12.030, a permit is required for every producing, non-producing, or idle oil and gas well, as well as injection wells.

The annual permit must be renewed each year, prior to July 1st until the well is properly abandoned. One physical permit will be issued per oil operation site. The permit fees are **$190 for initial well at the site and $75 for each additional well at the site**, as established by the Citywide User Fee Schedule. The fee incorporates the cost of performing annual well inspections, although additional charges may apply if re-inspections are required.

Included with this letter is a permit application for each oil operation site that you own, lease, or operate. Please complete the application and return it with payment to:

Huntington Beach Fire Department
2000 Main Street
Huntington Beach, CA 92648

Oil Operation Site Address: 20101 GOLDENWEST
Number of Oil or Gas Wells (not abandoned): 212
Total Annual Permit Fee: $16,015.00

If you have any questions, contact Jeff Lopez, Deputy Fire Marshal/Programs, at (714) 536-5565.

Sincerely,

William Reardon

William Reardon
Division Chief/Fire Marshal

c: Occupancy File

CITY OF HUNTINGTON BEACH

2000 MAIN STREET FIRE DEPARTMENT CALIFORNIA 92648

June 9, 2010

AERA ENERGY LLC - PLATFORM EMMY
20101 GOLDENWEST ST
HUNTINGTON BEACH CA, 92648

RE: ANNUAL WELL PERMIT REQUIRED

Dear BRENT BOYCE:

The Huntington Beach Oil Code was established in 1981 to set reasonable and uniform limitations, safeguards and controls for present and future operations related to drilling for the production of oil, gas, and other hydrocarbon substances within the city of Huntington Beach. Section 15.12.030 requires that an annual well permit be renewed by July 1st of every year following the drilling of a new well or operation of an existing well.

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Included with this letter is a permit application for each oil operation site that you own, lease, or operate. Please complete the application and return it with payment to:

Huntington Beach Fire Department
2000 Main Street
Huntington Beach, CA 92648

Oil Operation Site Address: 20101 GOLDENWEST
Number of Oil or Gas Wells (not abandoned): 42
Total Annual Permit Fee: $3,265.00

If you have any questions, contact Jeff Lopez, Deputy Fire Marshal/Programs, at (714) 536-5565.

Sincerely,

William Reardon

William Reardon
Division Chief/Fire Marshal

c: Occupancy File

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT PERMIT

AERA ENERGY LLC
AERA ENERGY LLC
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

Effective Date: 01/02/2010
Expiration Date: 01/02/2011

OFFC 714-969-3200

PERMITTEE: AERA ENERGY LLC

LOCATION: 20101 GOLDENWEST

OCCUPANCY ID: 0000001277 DISTRICT: 3912 OCCUPANCY TYPE: H3

Appendix Chapter 1, Section 105, of the Huntington Beach Fire Code (HBFC) requires that a permit be obtained from the fire code official to authorize any operations or conditions that are identified in Section 105.6 or 105.7. This permit shall constitute permission to maintain, store or handle materials; or to conduct processes which produce conditions hazardous to life or property; or to install equipment utilized in connection with such activities; or to install or modify any fire protection system or equipment or any other construction, equipment installation or modification in accordance with the provisions of the HBFC where a permit is required. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of the HBFC or other applicable regulations or laws of the jurisdiction.

The fire code official is authorized to revoke a permit issued under the provision of the HBFC when it is found by inspection or otherwise that there has been a false statement or misrepresentation as to the material facts in the application or construction documents on which the permit or approval was based including, but not limited to, any one of the following:

1. Conditions and limitations set forth in the permit have been violated.
2. The permit is used for a condition or activity other than that listed in the permit.
3. The permitee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of the HBFC within the time provided therein.
4. The permit was issued in error or in violation of an ordinance, regulation or the HBFC.

Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire code official. Permits are not transferrable and any change in occupancy, operation, tenancy or ownership shall require that a new permit be issued. All permits are valid for one year, unless otherwise indicated, and must be renewed prior to expiration.

105.6.16	Flammable and Combustable Liquids	
105.6.20	Hazardous Materials	
105.6.23	Hot Works Operations	DURING WELDING OR OPEN FLAME OPERATIONS: MAINTAIN 10 FEET CLEARANCE FROM COMBUSTIBLES AND 20 FEET CLEARANCE FROM FLAMMABLE LIQUIDS.
105.6.27	LP-Gas	
105.6.8	Compressed Gases	

ISSUED BY: Huntington Beach Fire Department

PRINTED ON: 01/12/2010

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT PERMIT

AERA ENERGY LLC - MAIN FACILITY
AERA ENERGY LLC
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

Effective Date: 01/02/2009
Expiration Date: 01/02/2010

OFFC 714-969-3200

PERMITTEE: AERA ENERGY LLC

LOCATION: 20101 GOLDENWEST

OCCUPANCY ID: 0000001277 DISTRICT: 3912 OCCUPANCY TYPE: H3

Appendix Chapter 1, Section 105, of the Huntington Beach Fire Code (HBFC) requires that a permit be obtained from the fire code official to authorize any operations or conditions that are identified in Section 105.6 or 105.7. This permit shall constitute permission to maintain, store or handle materials; or to conduct processes which produce conditions hazardous to life or property; or to install equipment utilized in connection with such activities; or to install or modify any fire protection system or equipment or any other construction, equipment installation or modification in accordance with the provisions of the HBFC where a permit is required. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of the HBFC or other applicable regulations or laws of the jurisdiction.

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1. Conditions and limitations set forth in the permit have been violated.
2. The permit is used for a condition or activity other than that listed in the permit.
3. The permitee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of the HBFC within the time provided therein.
4. The permit was issued in error or in violation of an ordinance, regulation or the HBFC.

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105.6.16	Flammable and Combustable Liquids	
105.6.20	Hazardous Materials	
105.6.23	Hot Works Operations	DURING WELDING OR OPEN FLAME OPERATIONS: MAINTAIN 10 FEET CLEARANCE FROM COMBUSTIBLES AND 20 FEET CLEARANCE FROM FLAMMABLE LIQUIDS.
105.6.27	LP-Gas	
105.6.8	Compressed Gases	

ISSUED BY: Huntington Beach Fire Department

PRINTED ON: 02/11/2009

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

TEMPORARY PERMIT

09-23-2008 (Post on the premises)

AERA ENERGY LLC
STURGEON & SON
3511 GILMORE AV SUITE#
BAKERSFIELD CA 93308

Issue Date: 9/22/2008
Expiration Date: 3/21/2009
(714) 969-3200

PERMITTEE: STURGEON & SON
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 3912 Occupancy Type: H3

Appendix Chapter 1, Section 105, of the Huntington Beach Fire Code (HBFC) requires that a permit be obtained from the fire code official to authorize any operations or conditions that are identified in Section 105.6 or 105.7. This permit shall constitute permission to maintain, store or handle materials; or to conduct processes which produce conditions hazardous to life or property; or to install equipment utilized in connection with such activities; or to install or modify any fire protection system or equipment or any other construction, equipment installation or modification in accordance with the provisions of the HBFC where a permit is required. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of the HBFC or other applicable regulations or laws of the jurisdiction.

The fire code official is authorized to revoke a permit issued under the provision of the HBFC when it is found by inspection or otherwise that there has been a false statement or misrepresentation as to the material facts in the application or construction documents on which the permit or approval was based including, but not limited to, any one of the following:

1. Conditions and limitations set forth in the permit have been violated.
2. The permit is used for a condition or activity other than that listed in the permit.
3. The permitee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of the HBFC within the time provided therein.
4. The permit was issued in error or in violation of an ordinance, regulation or the HBFC.

Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire code official. Permits are not transferrable and any change in occupancy, operation, tenancy or ownership shall require that a new permit be issued. All permits are valid for one year, unless otherwise indicated, and must be renewed prior to expiration.

Permit Type

105.7 CONSTRUCTIONN PERMIT. 105.7.6 AVOVE GROUND CRUDE OIL TANK REMOVAL.

ISSUED BY: Huntington Beach Fire Department

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT AUTHORIZATION

02-04-2008 (This Fire Department receipt must be posted on the premises)

AERA ENERGY LLC
AERA ENERGY LLC
20101 GOLDENWEST ST SUITE#
HUNTINGTON BEACH CA 92648

Issue Date: 1/1/2008
Expiration Date: 1/1/2009
(714) 969-3200

PERMITTEE: AERA ENERGY LLC
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 3912 Occupancy Type: H3

As per Article 4 of the Huntington Beach Fire Code and Resolution No. 96-51, an authorization form is issued to the owner of the business for an annual maintenance inspection for hazardous processes, assembly occupancies and special events. This authorization constitutes a receipt and permission to maintain, store, use or handle materials, occupy assembly areas, conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Fire Department authorizations shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit application. All authorizations are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. This form shall serve as receipt of fees applied for the inspection, maintenance and processing of this authorization.

Permit No: 965063027

Permit Type	
C7	Compressed gases, to store, transport on site, dispense, use or handle amt in excess of table 105-A
H1	Hazardous materials, to store, transport on site, use hazardous material in excess of table 105-C
H3	Hot work operations/welding
F3	Flammable or combustible liquids, to use, store or handle this material
L1	Liquefied petroleum gases, to install or maintain any LP-gas container over 125 gallons

DURING WELDING OR OPEN FLAME OPERATIONS: MAINTAIN 10 FEET CLEARANCE FROM COMBUSTIBLES AND 20 FEET CLEARANCE FROM FLAMMABLE LIQUIDS.

ISSUED BY: Huntington Beach Fire Department

Secondary Containment Testing Report Form

This form is intended for use by contractors performing periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name: AERA ENERGY LLC	Date of Testing: 10/30/07
Facility Address: 20101 Golden West, Huntington Beach, CA 92648	
Facility Contact: David Cunningham	Phone: (714)969-3251
Date Local Agency Was Notified of Testing : 10/2007	
Name of Local Agency Inspector *(if present during testing)*:	

2. TESTING CONTRACTOR INFORMATION

Company Name: R.Y. RODRIGUEZ INC.	
Technician Conducting Test: Robert Rodriguez	
Credentials: × CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester
License Type: C61 / D21 / D40	License Number: 623516

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
INCON	TS- STS	3-6-2008

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
Jet-A Bucket 1	×	☐	☐	☐		☐	☐	☐	☐
Jet-A Bucket 2	×	☐	☐	☐		☐	☐	☐	☐
Waste Water Bucket	×	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
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	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

Wash water was left on site for customer to dispose of as hazardous material.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: _____ Date: 10/30/2007

9. SPILL/OVERFILL CONTAINMENT BOXES

Facility is Not Equipped With Spill/Overfill Containment Boxes ☐			
Spill/Overfill Containment Boxes are Present, but were Not Tested ☐			
Test Method Developed By:	☐ Spill Bucket Manufacturer ☐ Other *(Specify)*	× Industry Standard	☐ Professional Engineer
Test Method Used:	☐ Pressure ☐ Other *(Specify)*	☐ Vacuum	× Hydrostatic
Test Equipment Used:		Equipment Resolution:	

	Spill Box #1	**Spill Box #2**	**Spill Box #3**	**Spill Box #**
Bucket Diameter:	12"	12"	12'	
Bucket Depth:	12"	12	12"	
Wait time between applying pressure/vacuum/water and starting test:	5 min	5 min	5 min	
Test Start Time:	10:30	10:30	10:30	
Initial Reading (R_I):	5"	5"	4"	
Test End Time:	11:30	11:30	11:30	
Final Reading (R_F):	5"	5"	4"	
Test Duration:	1 hour	1 hour	1 hour	
Change in Reading (R_F-R_I):	0	0	0	
Pass/Fail Threshold or Criteria:	Any visual leak =fail	Any visual leak =fail	Any visual leak =fail	
Test Result:	× **Pass** ☐ **Fail**	× **Pass** ☐ **Fail**	× **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Visual test performed.

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. If more than one monitoring system control panel is installed at the facility, a separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date. Instructions are printed on the back of this page.

A. General Information

Facility Name: AERA ENERGY LLC Bldg. No.:

Site Address: 20101 Golded West City: Huntington Beach Zip: 92648

Facility Contact Person: Susan Perrell Contact Phone No.: (714) 969-3234

Make/Model of Monitoring System: Veeder Root ILS & Beaudreau 522 Date of Testing/Servicing: 10 / 30 /2007

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: JET-A	**Tank ID:**
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
☒ Annular Space or Vault Sensor. Model: 794380-303	☐ Annular Space or Vault Sensor. Model:
☒ Piping Sump / Trench Sensor(s). Model: 794380-420	☐ Piping Sump / Trench Sensor(s). Model:
☒ Fill Sump Sensor(s). Model: 794380-420	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☒ Tank Overfill / High-Level Sensor. Model: Mechanical Overfill	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: Waste Water	**Tank ID:**
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
☒ Annular Space or Vault Sensor. Model: 794380-303	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
☒ Fill Sump Sensor(s). Model: 794380-420	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☐ Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: #1	**Dispenser ID:**
☒ Dispenser Containment Sensor(s). Model: 406-5	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	**Dispenser ID:**
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	**Dispenser ID:**
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification

- I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Site Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*: ☐ System set-up ☐ Alarm history report

Technician Name (print): Robert Rodriguez Signature:

Certification No.: A29854 License. No.: 623516

Testing Company Name: R.Y.RODRIGUEZ, INC. Phone No.: (909) 937-9044

Site Address: 20101 Golded West Date of Testing/Servicing: 10 / 30 /2007

D. Results of Testing/Servicing

Software Version Installed: N/A

Complete the following checklist:

☒ Yes	❑ No*	Is the audible alarm operational?
☒ Yes	❑ No*	Is the visual alarm operational?
☒ Yes	❑ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	❑ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
❑ Yes	❑ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
❑ Yes	❑ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☒ Sump/Trench Sensors; ☒ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☒ Yes; ❑ No.
❑ Yes	❑ No* ☒ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? _____%
❑ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☒ Yes*	❑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ❑ Product; ☒ Water. If yes, describe causes in Section E, below.
☒ Yes	❑ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	❑ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments:

F. In-Tank Gauging / SIR Equipment:

❑ Check this box if tank gauging is used only for inventory control.
☒ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

❑ Yes	❑ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
❑ Yes	❑ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
❑ Yes	❑ No*	Was accuracy of system product level readings tested?
❑ Yes	❑ No*	Was accuracy of system water level readings tested?
❑ Yes	❑ No*	Were all probes reinstalled properly?
❑ Yes	❑ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

☒ Check this box if LLDs are not installed.

Complete the following checklist:

❑ Yes	❑ No* ❑ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ❑ 3 g.p.h.; ❑ 0.1 g.p.h ; ❑ 0.2 g.p.h.
❑ Yes	❑ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
❑ Yes	❑ No*	Was the testing apparatus properly calibrated?
❑ Yes	❑ No* ❑ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
❑ Yes	❑ No* ❑ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
❑ Yes	❑ No* ❑ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
❑ Yes	❑ No* ❑ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
❑ Yes	❑ No* ❑ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
❑ Yes	❑ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

Suction system.

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT AUTHORIZATION

05-09-2007 (This Fire Department receipt must be posted on the premises)

AERA ENERGY LLC
AERA ENERGY LLC
20101 GOLDENWEST ST SUITE#
HUNTINGTON BEACH CA 92648

Issue Date: 1/1/2007
Expiration Date: 1/1/2008
(714) 969-3200

PERMITTEE: AERA ENERGY LLC
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 3912 Occupancy Type: H3

As per Article 4 of the Huntington Beach Fire Code and Resolution No. 96-51, an authorization form is issued to the owner of the business for an annual maintenance inspection for hazardous processes, assembly occupancies and special events. This authorization constitutes a receipt and permission to maintain, store, use or handle materials, occupy assembly areas, conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Fire Department authorizations shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit application. All authorizations are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. This form shall serve as receipt of fees applied for the inspection, maintenance and processing of this authorization.

Permit No: 965063027

Permit Type	
C7	Compressed gases, to store, transport on site, dispense, use or handle amt in excess of table 105-A
H1	Hazardous materials, to store, transport on site, use hazardous material in excess of table 105-C
H3	Hot work operations/welding
F3	Flammable or combustible liquids, to use, store or handle this material
L1	Liquefied petroleum gases, to install or maintain any LP-gas container over 125 gallons

DURING WELDING OR OPEN FLAME OPERATIONS: MAINTAIN 10 FEET CLEARANCE FROM COMBUSTIBLES AND 20 FEET CLEARANCE FROM FLAMMABLE LIQUIDS.

ISSUED BY: Huntington Beach Fire Department

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

TEMPORARY PERMIT

11-29-2001 (Post on the premises)

AERA ENERGY LLC
MOINE BROS.
1110 W ANAHEIM ST SUITE# 4
WILMINGTON CA 90744

Issue Date: 11/27/01
Expiration Date: 2/27/02
(714) 969-3349

PERMITTEE: MOINE BROS.
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 448 Occupancy Type:

As per Article 4 of the Huntington Beach Fire Code and Resolution No. 96-51, an authorization form is issued to the owner of the business for an annual maintenance inspection for hazardous processes, assembly occupancies and special events. This authorization constitutes a receipt and permission to maintain, store, use or handle materials, occupy assembly areas, conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Fire Department authorizations shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit application. All authorizations are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. This form shall serve as receipt of fees applied for the inspection, maintenance and processing of this authorization.

Permit No: -926454457

Permit Type

F3 Flammable or combustible liquids, to use, store or handle this material

REMOVAL OF 10,000 GALLON SPLIT UNLEADED GASOLINE STORAGE DOUBLE WALL FIBERGLASS UNDERGROUND TANK AND RELATED PIPING TO BE REMOVED. MUST COMPLY WITH SPECIFICATIONS OF UFC ARTICLE 79 AND HUNTINGTON BEACH CITY SPECIFICATION #418 & #426.

ISSUED BY: BOB CULHANE Huntington Beach Fire Department

v

Huntington Beach Fire Department
2000 Main Street, Huntington Beach, CA 92648
(714) 536-5411 or Fax (714) 374-1551

FIRE CODE PERMIT APPLICATION

Date: 11 / 16 / 01

Applicant Information

Applicant's Name: ELPIDIO VARGAS
Business Name: MOINE BROS. Phone: (310) 830 1570
Address: 1110 W. ANAHIM ST #4 City: WILMINGTON State: CA Zip: 90744

Fire Permit Location

Business Owner: AERA ENERGY LLC
Business Name: Phone: (714) 969-3349
Address: 20101 GOLDEN WEST City: HUNTINGTON BEACH State: CA Zip: 92648

All requests for fire permits are processed in Fire Administration. Fees are to be paid in the amount of **$125** to the City of Huntington Beach prior to any permit issuance. The Fire Department depending on the nature of the permit and the risk involved may require additional plans, inspections, and fees. Permits are renewed annually and are non-transferable. A new permit shall be required when there is a change in use, occupancy, business operation, or ownership. All permits that are subject to annual renewal must have fees paid prior to the anniversary date. Inspections must be scheduled 48 hours in advance and can be arranged by contacting Fire Administration at 714-536-5411.

Applicant Signature: Elpidio Vargas

Fire Permit Description

☐ C-1	Candles & open flame in assemblies	☐ L-1	
☐ C-2	Carnivals and fairs	☐ L-3	
☐ C-5	Combustible fiber storage	☐ M-2	
☐ C-6	Combustible material storage	☐ O-3	
☐ C-7	Compressed gases	☐ O-4	
☐ C-8	Waste material handling plant	☐ P-2	
☐ D-1	Dry cleaning plant	☐ P-3	
☐ D-2	Dust producing operations	☐ R-3	
☐ F-2	Fireworks	☐ S-1	
☐ F-3	Flammable/combustible liquids	☐ T-1	
☐ H-1	Hazardous materials	☐ T-2	
☐ H-2	High-piled combustible storage	☐ T-3	
☐ H-3	Welding/cutting operations	☐	

MOINE BROS.
CONTRACTORS LIC. NO. 343468
PHONE: (310) 830-1570
FAX: (310) 830-1892
VIRGIL CICORIA
Project Manager
1110 W. ANAHEIM ST. #4
WILMINGTON, CA 90744

Additional permit requirements, description, and/or activity dates:
Permit Code:
Permit Code:
Permit Code:

Grid: 448 File # 1277 Inspector Culhane

This area for register validation only:
~~ACCT:~~ [redacted]
10000100.42103

Plans and Specifications Required
1. Equipment installations and modifications
2. Special events
3. High piled storage (interior/exterior)
4. Fireworks displays
5. Other permit items as required

Total fees paid $ 200.00

White: Inspector Green: Treasurer Yellow: Finance Pink: Fire Admin. Gold: Applicant

Department Use Only

Type of Permit: ~~Annual~~ X Temporary

Valid Period from 11/27/01 to 02/28/02

Plans Submitted _____ (date) Plans Reviewed _____ (date)

On Site Inspections (list date and total time involved for each required inspection)

Date_____ Total Time_____ Date_____ Total Time_____

Date_____ Total Time_____ Date_____ Total Time_____

Permit description, conditions, or restrictions

MUST COMPLY WITH SPECIFICATIONS OF UFC STANDARD ARTICLE 79.
AND HB CITY SPEC 418 & 426

Occupancy Classification_____ Occupant Load_____

Permit Issue Date 11/27/01 Inspector/PIN Culhane/172

Plot Plan

HUNTINGTON BEACH FIRE DEPARTMENT
CITY OF HUNTINGTON BEACH

5th Fl.

P.O. Box 190
2000 Main Street
Huntington Beach, Ca. 92648
(714) 536-5411 or FAX (714) 374-1551

APPLICATION-FIRE CODE PERMIT

APPLICANT INFORMATION (Signature) DATE: / /

Name: ~~MOINE BROS.~~			
Business Name: MOINE BROS.		Phone: 310 830-1570	
Address: 1110 W. ANAHEIM. ST., #4	City: WILMINGTON		St.: CA Zip: 90744

PERMIT LOCATION INFORMATION

Business Owner: MICHAEL KLANCHER			
Business Name: AERA ENERGY		Phone: 661-665-5938	
Address: 20101 GOLDEN WEST	City: HUNTINGTON BEACH		St.: CA Zip: 92648

Permit applications are processed at Fire Department Headquarters, City Hall 5th floor, and fees are paid at the City Treasurer's Office 1st floor. Additional plans, inspections, and fees may be required by the Fire Department depending on the nature of the permit and the risk involved.

Permits must be renewed with any change in use, occupancy, operation, or ownership. The permit fee is $125.00 for the first permit item and $40.00 for each additional item. All permits that require annual renewal must have fees paid prior to the anniversary of the date issued.

PERMIT DESCRIPTION [GRID _____ FILE No. _____ INSPECTOR _____]

☐C1 Candles and open flames in assembly areas	____	☐L3 Lumber yards	____
☐C2 Carnivals and fairs	____	☐M2 Mall, covered	____
☐C5 Combustible fiber storage	____	☐O1 Occupant load increase	____
☐C6 Combustible material storage	____	☐O4 Ovens, industrial baking or drying	____
☐C7 Compressed gases	____	☐P2 Places of assembly	____
☐D1 Dry cleaning plants	____	☐P3 Pyrotechnic special effects material	____
☐D2 Dust-producing operations	____	☐S1 Spraying or dipping	____
☐F2 Fireworks	____	☐T1 Tents, canopies, and temporary membrane structures	____
☐F3 Flammable or combustible liquids	____		
☐G1 Garages	____	☐T2 Tire recapping	____
☐H1 Hazardous materials	____	☐T3 Tire storage	____
☐H3 High-piled combustible storage	____	☐W1 Waste material handling plant	____
☐L1 Liquefied petroleum gases	____	☐W2 Welding and cutting operations	____

ENTRY PERMIT(S) NOT ON ABOVE LIST

Permit Code	Permit Description / Activity Dates / Additional Information
____	REMOVE GASOLINE-STORAGE UNDERGROUND TANK
____	
____	
____	
____	
____	
____	

THIS AREA FOR REGISTER VALIDATION ONLY

acct #1000 100.42103

~~ACCT: R-AA-3-21-00-FR-301~~
TOTAL AMOUNT OF FEES $ 200.00

PLANS AND SPECIFICATIONS REQUIRED
1. Equipment installations and modifications
2. Special events
3. High-piled storage (interior or exterior)
4. Fireworks displays
5. Other permit items as required

Inspections must be requested for new permits and permits that involve construction, installation, or set-up of special events. Contact Fire Department Headquarters to schedule an appointment with an inspector.

White : INSPECTOR Green: TREASURER Yellow : FINANCE Pink : OFFICE Gold : CUSTOMER FD-114a(08/94)

JOB SHEET

TODAY'S DATE 7-20-01 BID DUE _____ BID # _____ JOB # 01-071

CONTACT Tom Rauls CO. Tetra Tech, Inc. PHONE (626) 351-4664 -5291
or Joyce Marino -x142 Joyce's Mobile (626) 255-1764

MAILING ADDRESS 670 N. Rosemead Bl., Pasadena 91107

JOB SITE AERA ENERGY 20101 Golden West, Huntington Beach 92648
(@ FCH)

MAP PAGE _____ SECTION _____ Dom McElhaney JOB PHONE 714 969-3349

JOB TYPE ☐ TANKS: REPLACEMENT, REMOVAL, NEW INSTALLATION, STATION REBUILD

☐ DEMOLITION: STATION, COMMERCIAL/INDUSTRIAL, RESIDENTIAL

OWNER/GENERATOR: AERA Energy LLC EPA # N/A

MAILING ADDRESS: 1000 Ming Av., Bakersfield, CA 93311

CONTACT: Michael Klancher PHONE # 661 665-5938

Gate code 0777

Referred by Bill w/ Mesa Contracting

DEMO 20'x20' canopy. Transfer on-site canopy metal, dispenser, and all other materials, including tank rinse

T/R: 1/10 split DWF incl. A/C ?

Haul-off tank only. Transfer on-site tank piping and all other materials

GB/F w/ CCR

Alt. to remf. w/ A/C

Sharp

All piping associated with underground storage tanks shall be removed and properly disposed

COUNTY OF ORANGE Acct #18589

ORANGE COUNTY HEALTH CARE AGENCY

ENVIRONMENTAL HEALTH

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

TOM URAM
DIRECTOR
L. REX ERLING, M.D.
HEALTH OFFICER
ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, R.S. MPH
DEPUTY DIRECTOR

APPROVED
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT SECTION
THIS APPROVAL IS VALID FOR 12 MONTHS FROM THE APPROVAL DATE

Plan Reviewed By: [signature] Date: 11/7/01 Plan #: PM01-058

This approval shall not be construed to permit the violation of any law, nor does it prevent further corrections of errors found on the plans. Plans must be resubmitted for approval if any additional changes are made by the applicant.

DATE: 11-6-01

FACILITY MODIFICATION APPLICATION (INSTALLATION/REMOVAL/REPAIR)

(COMPLETE PAGES 1 & 2)

HAZARDOUS MATERIALS MANAGEMENT SECTION

All tanks, piping, and associated equipment must be exposed/cleared of overburden and left in place. An Environmental Health Specialist must inspect the exposed tank, piping and associated equipment prior to continuing with the removal/modification project. Contact this office at (714) 667-3600 to schedule an inspection at least 48 hours in advance.

In addition to this approval, all applicable permits required by the local fire department, and the Air Quality Management District must be obtained.

Underground tank installation, removal, and repair is required and must be scheduled 48 hours in advance. Contact (714) 667 - 3600 for an appointment.

A copy of these approved plans must be available at the site at all times.

CITY OF HUNTINGTON BEACH, CALIFORNIA
FIRE PREVENTION DIVISION
APPROVED DATE: 11-27-01
PLANS SUBJECT TO VISUAL INSPECTION AND FINAL APPROVAL ON SITE
SIGNED: Robert B. Cullen TITLE: FP

FACILITY INFORMATION

NAME: AERA ENERGY

STREET ADDRESS: 20101 GOLDENWEST ST.

CITY: HUNTINGTON BEACH

TOTAL NUMBER OF TANKS (AFTER INSTALLATION/REMOVAL) AT THIS LOCATION: 1

TYPE OF BUSINESS:

___ GASOLINE STATION ___ FARM

___ GOVERNMENT ✓ OTHER

TANK OWNER

NAME (CORP., INDIVIDUAL, PUBLIC AGENCY):

AERA ENERGY

STREET ADDRESS: 1000 MING AV.

CITY: BAKERSFIELD

STATE: CA ZIP: 93311

TELEPHONE NO.: (661) 665-5938

BILLING ADDRESS INFORMATION

BILL TO NAME: AERA ENERGY

BILL TO ADDRESS: 1000 MING AV.

CITY: BAKERSFIELD

STATE: CA ZIP: 93311

TELEPHONE NO.: (661) 665-5938

TYPE OF CONSTRUCTION

INDICATE NO. OF TANK(S) BEING REMOVED/REPAIRED/INSTALLED BELOW:
(COMPLETE PAGE 2 - INDICATING THE TANKS TO BE INSTALLED/REMOVED, OR AFFECTED BY THE REPAIR)

___ INSTALLATION(S)

___ REPAIR(S)/RELINE(S) TO USTs

✓ CLOSURE(S)/REMOVAL(S) - 1 tank

___ SYSTEM MODIFICATION (E.G., REPIPE, REPAIR TO PIPING)

___ OTHER (SPECIFY)

24 HOUR EMERGENCY CONTACT PERSON

DAYS: MICHAEL KLANCHER (661) 665-5938
NAME TELEPHONE

NIGHTS: DON McELHANEY (714) 969-3349
NAME TELEPHONE

APPLICANT

NAME: CHARLES MOINE
PLEASE PRINT

SIGNATURE: [signature]

COMPANY NAME: MOINE BROS.

TELEPHONE NO.: (310) 830-1570

FACILITY OPERATOR (CONTACT PERSON)

NAME: DON McELHANEY

BUSINESS TELEPHONE NO.: (714) 969 3349

MUST MEET ALL REQUIREMENTS OF City Spec. 418 & 426

PAID

NOTE: NEW INSTALLATIONS, CLOSURES, REPAIRS AND SYSTEM MODIFICATIONS OF UNDERGROUND STORAGE TANKS REQUIRE THE SUBMITTAL OF (4) SETS OF PLANS TO THIS DIVISION. THESE PLANS MUST BE APPROVED PRIOR TO THE INITIATION OF ANY CONSTRUCTION OR MODIFICATION. ALL PLANS OR REPORTS REQUIRED MUST ACCOMPANY THIS FORM AT THE TIME OF SUBMITTAL.

HSO - 171872 Ck# 7078 11-7-01

OFFICE USE ONLY

PLAN CHECK NO.: PM01-058 FEES PAID: $175 RCVD. BY:

PLAN APPROVAL DATE: BY:

NUMBER OF TANKS TO RECEIVE A SURCHARGE BILL: NUMBER OF TANKS TO BE ADDED TO BILLING:

TANK INFORMATION

PROVIDE THE INFORMATION BELOW FOR ALL TANKS AND PIPING SYSTEMS TO BE INSTALLED, REMOVED OR REPAIRED. ALSO INDICATE THE UPGRADE/CHANGES TO BE MADE TO EACH TANK SYSTEM.

				TANK I.D.	#1	#2	#3	#4
MATERIAL STORED	MATERIAL OR WASTE STORED		CURRENTLY		GASOLINE			
			PROPOSED		N/A			
			PREVIOUSLY		GASOLINE			
	FUEL TYPE, I.E., UNLEADED				UNLEADED			
CONTAINER	TYPE (TANK, SUMP, OTHERS)				TANK			
	DOUBLE WALL/SINGLE WALL				DOUBLE-WALL			
	UL NUMBER				UNKNOWN			
	YEAR INSTALLED				UNKNOWN			
	VAULTED/NOT VAULTED				NOT VAULTED			
	PRIMARY	MANUFACTURER			UNKNOWN			
		CAPACITY (GALLON)			10,000			
		CONSTRUCTION MATERIAL			FIBERGLASS			
		THICKNESS (UNITS)			UNKNOWN			
		INTERIOR LINING			N/A			
	SECONDARY	MANUFACTURER			UNKNOWN			
		CAPACITY (GALLON)			10,000			
		CONSTRUCTION MATERIAL			FIBERGLASS			
		THICKNESS (UNITS)			UNKNOWN			
	CORROSION PROTECTION				N/A			
	TYPE OF LEAK DETECTION FOR USTs (LIQUID PROBE, ETC.)				UNKNOWN			
	MANUFACTURER OF LEAK DETECTOR				UNKNOWN			
PIPING	LOCATION (UNDER/ABOVE GROUND)				UNDERGROUND			
	SUCTION/PRESSURE GRAVITY/UNKNOWN				UNKNOWN			
	PRIMARY	CONSTRUCTION MATERIAL			UNKNOWN			
		MANUFACTURER			UNKNOWN			
	SECONDARY	CONSTRUCTION MATERIAL			UNKNOWN			
		MANUFACTURER			UNKNOWN			
	TYPE OF LEAK DETECTION FOR PIPING (PRESSURE LOSS DEVICE, ETC.)				UNKNOWN			
	MANUFACTURER OF LEAK DETECTOR				UNKNOWN			
OVERFILL PROTECTION (TYPE)					UNKNOWN			
SPILL CONTAINMENT (TYPE)					UNKNOWN			

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY SITE CLOSURE ☑ 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME	NAME OF OPERATOR	
AERA ENERGY		
ADDRESS: 20101 GOLDEN WEST ST.	NEAREST CROSS STREET: P.C.H.	PARCEL # (OPTIONAL)
CITY NAME: HUNTINGTON BEACH	STATE: CA / ZIP CODE: 92648	SITE PHONE # WITH AREA CODE: 714 969 3349

✓ BOX TO INDICATE: ☑ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY DISTRICTS ☐ COUNTY-AGENCY * ☐ STATE-AGENCY * ☐ FEDERAL-AGENCY *

* If owner of UST is a public agency, complete the following: name of supervisor of division, section or office which operates the UST _____

TYPE OF BUSINESS	☐ IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE	E. P. A. I. D. # (optional)
☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☑ 5 OTHER	☐	1	

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY) - optional	
DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
KLANCHER, MICHAEL	(661) 665-5938		
NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
KLANCHER, MICHAEL	(661) 665-5938		

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME	CARE OF ADDRESS INFORMATION		
AERA ENERGY			
MAILING OR STREET ADDRESS: 1000 MING AV.	✓ box to indicate: ☑ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY		
CITY NAME: BAKERSFIELD	STATE: CA	ZIP CODE: 93311	PHONE # WITH AREA CODE: 661 665-5938

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER	CARE OF ADDRESS INFORMATION		
AERA ENERGY			
MAILING OR STREET ADDRESS: 1000 MING AV.	✓ box to indicate: ☑ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY		
CITY NAME: BAKERSFIELD	STATE: CA	ZIP CODE: 93311	PHONE # WITH AREA CODE: 661 665-5938

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44- ☐☐☐☐☐☐☐

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) – IDENTIFY THE METHOD(S) USED

✓ box to indicate: ☐ 1 SELF-INSURED ☐ 2 GUARANTEE ☐ 3 INSURANCE ☐ 4 SURETY BOND ☐ 5 LETTER OF CREDIT ☐ 6 EXEMPTION ☐ 7 STATE FUND ☐ 8 STATE FUND & CHIEF FINANCIAL OFFICER LETTER ☐ 9 STATE FUND & CERTIFICATE OF DEPOSIT ☐ 10 LOCAL GOVT. MECHANISM ☐ 99 OTHER _____

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. ☐ II. ☐ III. ☑

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE)	TANK OWNER'S TITLE	DATE MONTH/DAY/YEAR
CHARLES MOINE FOR MICHAEL KLANCHER		11-6-01

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	FACILITY #

LOCATION CODE - *OPTIONAL*	CENSUS TRACT # - *OPTIONAL*	SUPVISOR - DISTRICT CODE - *OPTIONAL*

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

State of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

343468

CHARLES MOINE

C21 C61/D40 HAZ

04/30/2002

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

Consumer Affairs

Building Quality

HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination

Qualifier Moine Bros
Charles Moine

License No 343468

REGISTRAR OF CONTRACTORS
STATE OF CALIFORNIA

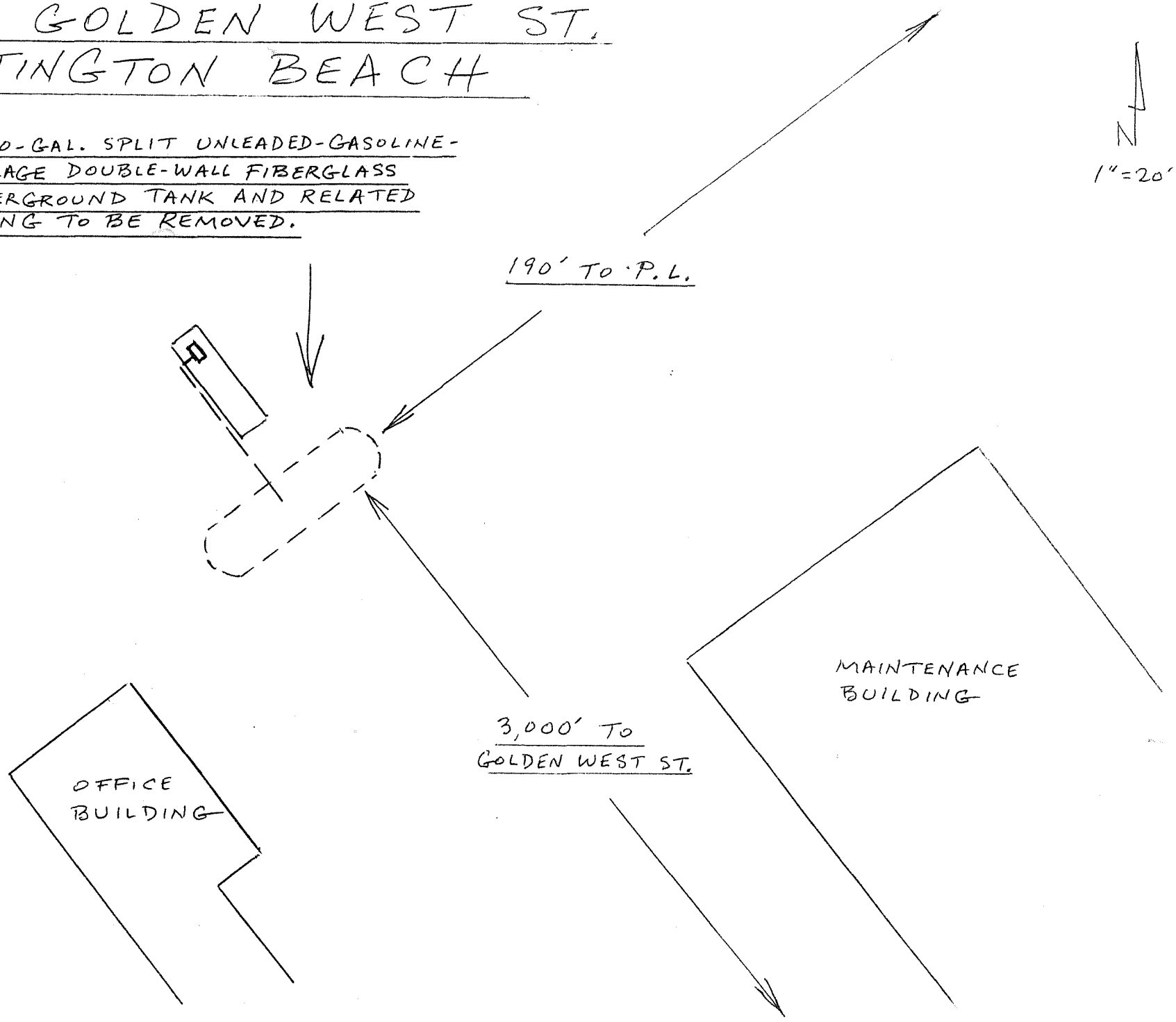
WITNESS my hand and official seal this
27th day of JANUARY 1994

Registrar of Contractors

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when it is revoked, suspended or otherwise terminated for any reason

20101 GOLDEN WEST ST.
HUNTINGTON BEACH

10,000-GAL. SPLIT UNLEADED-GASOLINE-STORAGE DOUBLE-WALL FIBERGLASS UNDERGROUND TANK AND RELATED PIPING TO BE REMOVED.



CITY OF HUNTINGTON BEACH

INTER-DEPARTMENT COMMUNICATION

To FILE From FPS ROBERT CULHANE

Subject UNDERGROUND TANK REMOVAL Date 12-18-01

20101 GOLDENWEST ST.
LOCATION

448
DISTRICT

On 11-27-01 (DATE) a permit was issued to HERA ENERGY LLC (COMPANY)

to remove (and replace) the following fuel tank(s) located at 20101 GOLDENWEST (ADDRESS),

Huntington Beach:

10,000 1-31-89, UL # 360473 LEL 0 0

___,000 _____, UL # _____

___,000 _____, UL # _____

___,000 _____, UL # _____

Final destination of tanks: MOHLE BROS.
521 E. D STREET
WILMINGTON CA 90741

The following new tank(s) were installed:

___,000 _____, UL # _____

___,000 _____, UL # _____

___,000 _____, UL # _____

___,000 _____, UL # _____

The job was completed and final inspection was conducted on 12-18-01 (DATE).

/sr
(8/88)f

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT PERMIT

07-31-2000 (This Fire Department receipt must be posted on the premises)

AERA ENERGY LLC
AERA ENERGY LLC
20101 GOLDENWEST ST SUITE#
HUNTINGTON BEACH CA 92648

Issue Date: 1/1/00
Expiration Date: 1/1/01
(714) 969-3200

PERMITTEE: AERA ENERGY LLC
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 3912 Occupancy Type: H3

As per Article 4 of the Huntington Beach Fire Code and Resolution No. 96-51, an authorization form is issued to the owner of the business for an annual maintenance inspection for hazardous processes, assembly oecupancies and special events. This authorization constitutes a receipt and permission to maintain, store, use or handle materials, occupy assembly areas, conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Fire Department authorizations shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit application. All authorizations are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. This form shall serve as receipt of fees applied for the inspection, maintenance and processing of this authorization.

Permit No: 965063027

Permit Types

C7	Compressed gases, to store, transport on site, dispense, use or handle amt in excess of table 4108
F3	Flammable or combustible liquids, to use, store or handle this material
H1	Hazardous materials, to store, transport on site, use hazardous material in excess of table 105-C
H3	Hot work operations/welding
L1	Liquefied petroleum gases, to install or maintain any LP-gas container over 125 gallons

DURING WELDING OR OPEN FLAME OPERATIONS: MAINTAIN 10 FEET CLEARANCE FROM COMBUSTIBLES AND 20 FEET CLEARANCE FROM FLAMMABLE LIQUIDS.

ISSUED BY: DAN FORSTER Huntington Beach Fire Department

FIRE DEPARTMENT PERMIT

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

Grid 348
Occ. Group
Issue Date 1/27/95
Expiration Date
File No. 1277

As per Article 4 and all applicable provisions of the Huntington Beach Fire Code a permit is issued to:

PERMITTEE: Steve Elliott

BUSINESS NAME: Fluor Daniel, Inc. PHONE#: 714-969-3207

BUSINESS ADDRESS: 20101 Goldenwest St., H.B. 92648

PERMIT ISSUED FOR: (W2) Welding and cutting operations. Cutting operations during demolition of existing gas plant #11 for Calresources (previously Shell Oil) located @20101 Goldenwest St. Permit is valid until demolition is completed. Must meet all requirements of the H.B.F.C.

Issued by: H Hubert Title: Deputy Fire Marshal

Howard Hubert

THIS PERMIT MUST BE POSTED ON PREMISES **FD-036 (04/94)**

HUNTINGTON BEACH FIRE DEPARTMENT
CITY OF HUNTINGTON BEACH

P.O. Box 190
2000 Main Street
Huntington Beach, Ca. 92648
(714) 536-5411 or FAX (714) 374-1551

APPLICATION-FIRE CODE PERMIT

APPLICANT INFORMATION (Signature) DATE: 01 / 19 / 95

Name: STEVE ELLIOTT		
Business Name: FLUOR DANIEL, INC.	Phone: (714) 969-3207	
Address: 20101 GOLDENWEST STREET	City: HUNTINGTON BEACH	St.: CA Zip: 92648

PERMIT LOCATION INFORMATION

Business Owner: CALRESOURCES (Previously SHELL OIL)		
Business Name: CALRESOURCES	Phone: (714) 969-3207	
Address: 20101 GOLDENWEST STREET	City: HUNTINGTON BEACH	St.: CA Zip: 92648

Permit applications are processed at Fire Department Headquarters, City Hall 5th floor, and fees are paid at the City Treasurer's Office 1st floor. Additional plans, inspections, and fees may be required by the Fire Department depending on the nature of the permit and the risk involved.

Permits must be renewed with any change in use, occupancy, operation, or ownership. The permit fee is $125.00 for the first permit item and $40.00 for each additional item. All permits that require annual renewal must have fees paid prior to the anniversary of the date issued.

PERMIT DESCRIPTION [GRID 348 FILE NO 1277 INSPECTOR McCLANAHAN

☐C1 Candles and open flames in assembly areas		☐L3 Lumber yards	
☐C2 Carnivals and fairs		☐M2 Mall, covered	
☐C5 Combustible fiber storage		☐O1 Occupant load increase	
☐C6 Combustible material storage		☐O4 Ovens, industrial baking or drying	
☐C7 Compressed gases		☐P2 Places of assembly	
☐D1 Dry cleaning plants		☐P3 Pyrotechnic special effects material	
☐D2 Dust-producing operations		☐S1 Spraying or dipping	
☐F2 Fireworks		☐T1 Tents, canopies, and temporary membrane structures	
☐F3 Flammable or combustible liquids		☐T2 Tire recapping	
☐G1 Garages		☐T3 Tire storage	
☐H1 Hazardous materials		☐W1 Waste material handling plant	
☐H3 High-piled combustible storage		☒W2 Welding and cutting operations	
☐L1 Liquefied petroleum gases			

ENTRY PERMIT(S) NOT ON ABOVE LIST

Permit Code	Permit Description / Activity Dates / Additional Information
	CUTTING OPERATION DURING DEMO OF EXISTING GAS PLANT #11.
	Start Date : Feb. 1, 1995

THIS AREA FOR REGISTER VALIDATION ONLY

2024/140 24Jan95 001/12 $125.00 RAA3210[illegible]FR301 CA

PLANS AND SPECIFICATIONS REQUIRED
1. Equipment installations and modifications
2. Special events
3. High-piled storage (interior or exterior)
4. Fireworks displays
5. Other permit items as required

ACCT:R-AA-3-21-00-FR-301
TOTAL AMOUNT OF FEES $ 125.00

Inspections must be requested for new permits and permits that involve construction, installation, or set-up of special events. Contact Fire Department Headquarters to schedule an appointment with an inspector.

White : INSPECTOR Green: TREASURER Yellow : FINANCE Pink : OFFICE Gold : CUSTOMER FD-114a(08/94)

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

02-12-1996

FIRE DEPARTMENT PERMIT

(post on the premises)

CAL-RESOURCES LIMITED LIABILITY CORP.
CAL-RESOURCES LLC
20101 GOLDENWEST ST SUITE#
HUNTINGTON BEACH CA 92648

Issue Date: 1/1/96
Expiration Date: 1/1/97
(714) 969-3200

PERMITTEE: CAL-RESOURCES LLC
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 348 Occupancy Type: B2

As per Article 4 of the Huntington Beach Fire Code, a permit is issued to the owner of the business. This permit constitutes permission to maintain, store, use or handle materials or to conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Permits shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit. All permits are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. A late fee may be charged for past due accounts.

Permit No: 559

==========

C7	Compressed gases, to store, transport on site, dispense, use or handle amt. in excess of table 4108-A
F3	Flammable or combustible liquids, to use, store or handle this material
H1	Hazardous materials, to store, transport on site, use hazardous material in excess of table 4108-C
L1	Liquefied petroleum gases, to install or maintain any LP-gas container over 125 gallons

GEORGE SHINROCK

ISSUED BY: _____ Huntington Beach Fire Department

Duplicate
Remailed 10-24-96 GC

City of Huntington Beach
Fire Department

2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT AUTHORIZATION

10-24-1996 (This Fire Department receipt must be posted on the premises)

CAL-RESOURCES LIMITED LIABILITY CORP.
CAL-RESOURCES LLC
20101 GOLDENWEST ST SUITE#
HUNTINGTON BEACH CA 92648

Issue Date: 4/25/96
Expiration Date: 1/1/97
(714) 969-3200

PERMITTEE: CAL-RESOURCES LLC
LOCATION: 20101 GOLDENWEST ST

FP Master File # 1277 Grid # 348 Occupancy Type: B2

As per Article 4 of the Huntington Beach Fire Code and Resolution No. 96-51, an authorization form is issued to the owner of the business for an annual maintenance inspection for hazardous processes, assembly occupancies and special events. This authorization constitutes a receipt and permission to maintain, store, use or handle materials, occupy assembly areas, conduct processes which produce conditions hazardous to life or property, or to install equipment used in connection with such activities. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of this code.

Fire Department authorizations shall not be transferable and any changes in use, occupancy, operation or ownership shall require a new permit application. All authorizations are valid for a period of one year, unless otherwise indicated, and must be renewed prior to expiration. This form shall serve as receipt of fees applied for the inspection, maintenance and processing of this authorization.

Permit No: 559

C7	Compressed gases, to store, transport on site, dispense, use or handle amt. in excess of table 4108-A
F3	Flammable or combustible liquids, to use, store or handle this material
H1	Hazardous materials, to store, transport on site, use hazardous material in excess of table 4108-C
L1	Liquefied petroleum gases, to install or maintain any LP-gas container over 125 gallons

ISSUED BY: GEORGE SHINROCK Huntington Beach Fire Department

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

District _____
Occupancy group _____
Date _____

FIRE DEPARTMENT PERMIT

As per Article 4 of the Uniform Fire Code a permit is issued to:

(PLEASE PRINT)
PERMITTEE Shell Western E & P Inc.

BUSINESS NAME Shell Onshore Ventures, Inc. BUSINESS PHONE 714-969-3200

BUSINESS ADDRESS 20101 Golden West St., H.B. 92648

PERMIT ISSUED FOR: H.B.F.C. Sec. 4.108 (C7) To handle or use compressed gas; (F1) To handle, store, and use flammable liquids; (H1) To handle or use hazardous materials; (L1) To use or store LPG.

VALID PERIOD 1/1/95 ISSUED BY Michael McClanahan PERMITTEE SIGNATURE _____

THIS PERMIT MUST BE POSTED ON PREMISES

HUNTINGTON BEACH FIRE DEPARTMENT
CITY OF HUNTINGTON BEACH

mc Clanahan #348

1277 B2

P.O. Box 190
2000 Main Street
Huntington Beach, Ca. 92648
(714) 536-5411 or FAX (714) 374-1551

APPLICATION-FIRE CODE PERMIT

APPLICANT INFORMATION(Signature) Steven Messner DATE: 4/11/94

Name: Steven Messner			
Business Name: Shell Western E&P Inc.		Phone: (805) 326-5982	
Address: P.O. Box 11164	City: Bakersfield	St.: CA	Zip: 93389

PERMIT LOCATION INFORMATION

Business Owner: Shell Onshore Ventures Inc.			
Business Name: Shell Western E&P Inc.		Phone: (714) 969-3200	
Address: 20101 Golden West St.	City: Huntington Beach	St.: CA	Zip: 92648

Permit applications are processed at the Fire Department Headquarters, City Hall 5th floor and fees are paid at the City Treasurer's Office 1st floor. Additional plans, inspections and fees may be required by the Fire Department depending on the nature of the permit and the risk involved. Permits must be renewed with any change in use, occupancy, operation or ownership.

PERMIT DESCRIPTION

- ☐ A1 Aerosol products
- ☐ A2 Aircraft refueling vehicles
- ☐ A3 Aircraft repair hangar
- ☐ A4 Automobile wrecking yard
- ☐ B1 Bowling pin or alley refinishing
- ☐ C1 Candles and open flames in assembly areas
- ☐ C2 Carnivals and fairs
- ☐ C3 Cellulose nitrate film
- ☐ C4 Cellulose nitrate storage
- ☐ C5 Combustible fiber storage
- ☐ C6 Combustible material storage
- ☒ C7 Compressed gases
- ☐ C8 Cryogens
- ☐ D1 Dry cleaning plants
- ☐ D2 Dust-producing operations
- ☐ E1 Explosives or blasting agents
- ☐ F1 Fire Hydrants and water-control valves
- ☐ F2 Fireworks
- ☒ F3 Flammable or combustible liquids
- ☐ F4 Fruit ripening
- ☐ F5 Fumigation or thermal insecticide fogging

THIS AREA FOR REGISTER VALIDATION ONLY

2115/173 25Apr94 001/12 $125.00 RAA3

- ☐ G1 Garages
- ☒ H1 Hazardous materials
- ☐ H2 Hazardous production materials
- ☐ H3 High-piled combustible storage
- ☐ J1 Junk yards
- ☒ I1 Liquefied petroleum gases
- ☐ I2 Liquid- or gas-fueled vehicles or equipment in assembly buildings
- ☐ L3 Lumber yards
- ☐ M1 Magnesium working
- ☐ M2 Mall, covered
- ☐ M3 Matches
- ☐ N1 Nitrate film
- ☐ O1 Occupant load increase
- ☐ O2 Open burning
- ☐ O3 Organic coating
- ☐ O4 Ovens, industrial baking or drying
- ☐ P1 Parade floats
- ☐ P2 Places of assembly
- ☐ P3 Pyrotechnic special effects material
- ☐ R1 Radioactive materials
- ☐ R2 Refrigeration equipment
- ☐ S1 Spraying or dipping
- ☐ T1 Tents, canopies and temporary membrane structures
- ☐ T2 Tire recapping
- ☐ T3 Tire storage
- ☐ W1 Waste material handling plant
- ☐ W2 Welding and cutting operations

ACCT: R-AA-3-21-00-FR-301
TOTAL AMOUNT OF FEES $ 125.00 R

ADDITIONAL ITEMS

Permit fee is $125.00 for the first permit item and $40.00 for each additional item. All permits that require annual renewal must have fees paid prior to the anniversary of the date issued. Notices will be sent at least 30 days in advance of the renewal.

White Copy: INSPECTOR Yellow Copy: TREASURER Pink Copy: APPLICANT Gold Copy: OFFICE FD-114a(07/93)

DEPARTMENT USE

PLANS SUBMITTED Date 4-25-94 PLANS REVIEWED Date 4.26.94 Total Time _____

ON-SITE INSPECTIONS (list date and total time involved for each required inspection)

1st Date _____ Total Time _____ 2nd Date _____ Total Time _____

3rd Date _____ Total Time _____ 4th Date _____ Total Time _____

PERMIT CONDITIONS OR RESTRICTIONS

HBFC Sec 4.108 (C7) To handle or use compressed gas.
(F3) To handle, store, and use flammble liquids.
(H1) To handle or use Hazardous Materials,
(L1) To use or store LPG

PERMIT ISSUED (Date) ~~4-25-94~~ 4.25-94 INSPECTOR(Name/PIN) McClanahan 59

Occ Type B2
Exp 1-1-95

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

District 348
Occupancy group
Date
Valid Period

FIRE DEPARTMENT PERMIT

As per Article 4 of the Uniform Fire Code a permit is issued to:

(PLEASE PRINT)
PERMITTEE WILLIAM WILDER

BUSINESS NAME SHELL OIL COMPANY BUSINESS PHONE

BUSINESS ADDRESS 20101 GOLDENWEST STREET

PERMIT ISSUED FOR: REMOVAL OF 2 1000 GAL GASOLINE TANKS - MUST CONFIRM TO CITY SPEC. YES

ISSUED BY Frank Price PERMITTEE SIGNATURE

THIS PERMIT MUST BE POSTED ON PREMISES

FD-036 (10/88)

All piping associated with underground storage tanks shall be removed and properly disposed of.

APPROVED

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT SECTION

Plan Reviewed By	Date	Plan #
[illegible]	9-14-90	90-416

This approval shall not be construed to permit the violation of any law, nor does it prevent further corrections of errors found on the plans. Plans must be resubmitted for approval if any additional changes are made by the applicant.

In addition to this approval, all applicable permits required by the local fire department, building department, and the Air Quality Management District must be obtained.

Underground tank installation, removal, and repair inspections are required and must be scheduled 48 hours in advance. Telephone (714) 667-3700.

A copy of these approved plans must be available at the site at all times.

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

District _____
Occupancy group _____
Date _____
Valid Period _____

FIRE DEPARTMENT PERMIT

As per Article 4 of the Uniform Fire Code a permit is issued to:

(PLEASE PRINT)
PERMITTEE Aman Brothers Environmental

BUSINESS NAME Shell Western BUSINESS PHONE (562)987-4500

BUSINESS ADDRESS 20101 Goldenwest & 20th & Walnut N/W Corner

PERMIT ISSUED FOR: Removal of 2 - 10,000 gal tanks & 1 - 500 gal tank at Goldenwest. Removal of 1 - 1000 gal tank at 20th & walnut. Must meet requirements of City Specification #418 .

ISSUED BY _____ PERMITTEE SIGNATURE William F Gordon

THIS PERMIT MUST BE POSTED ON PREMISES FD-036 (10/88)

HUNTINGTON BEACH

Huntington Beach Fire Department
P.O. Box 190
Huntington Beach, CA 92648
(714) 536-5411

District 4
Occupancy group
Date 4/4/89
Valid Period 4/4/90

FIRE DEPARTMENT PERMIT

As per Article 4 of the Uniform Fire Code a permit is issued to:

(PLEASE PRINT)
PERMITTEE John W. Kosztosny

BUSINESS NAME Aman Environmental BUSINESS PHONE 818-967-1284

BUSINESS ADDRESS 100 S. Citrus Ave., Ste. 2B, Covina, CA 91723

PERMIT ISSUED FOR: Removal of two (2) 10,000 gallon gasoline tanks at the Shell facility, Pacific Coast Highway and Goldenwest (maintenance yard). Per Huntington Beach City Specification #418.

ISSUED BY Scott Freeman

PERMITTEE SIGNATURE John W Kosztosny Aman Env. Inc.

THIS PERMIT MUST BE POSTED ON PREMISES

FD-036 (10/88)

CITY OF HUNTINGTON BEACH

INTER-DEPARTMENT COMMUNICATION

SF

To FILE From FPS SCOTT FREEMAN

Subject UNDERGROUND TANK REMOVAL Date 4/4/89

20101 GOLDENWEST
LOCATION

348
DISTRICT

On 4/4/89 (DATE) a permit was issued to AMAN ENVIRONMENTAL (COMPANY)

to remove (and replace) the following fuel tank(s) located at SHELL WESTERN 20101 GOLDENWEST (ADDRESS)

Huntington Beach:

10,000 GASOLINE, UL # UNKNOWN
10,000 SOLVENT, UL # "
___,000 _____, UL # _____
___,000 _____, UL # _____

Final destination of tanks: AMR - ONTARIO

The following new tank(s) were installed:

___,000 _____, UL # _____
___,000 _____, UL # _____
___,000 _____, UL # _____
___,000 _____, UL # _____

The job was completed and final inspection was conducted on 4/4/89 (DATE).

/sr
(8/88)f

AMK Outario

CTL ENVIRONMENTAL SERVICES
24404 S. Vermont Ave. #307
Harbor City, California 90710
(213) 530-5006

TANK REMOVAL CERTIFICATE #: 01063
Date: 4/4/89
Permit #:
Site: Shell Oil Co.

TANK DESCRIPTION: U. G. Gasoline
TANK SIZE: 10K gal
ADDRESS OF TANK: 2001 Golden West St.
LOCATION OF TANK: N. of Maintenance Bldg.

CLIENT: Nieto & Sons

TANK CONTENTS (if known): Unleaded Gasoline

TANK NUMBER (if any):

RESULTS OF TANK INSPECTION: Approved for removal

The tank described above has been inspected and found to be gas free based on readings obtained with an MSA type 2A Explosivity Meter (LEL of zero percent). A visual inspection has been made of the interior of the tank and no visible contamination has been observed except as noted below:

EXCEPTION: None

The tank described above is approved for removal and transportation.

INSPECTED BY: Ron Nunn

CERTIFIED BY: STUART E. SALOT, Ph.D., C.I.H.
CERTIFIED INDUSTRIAL HYGIENIST (#1433 & 1973)

THE PERMIT SHALL BE KEPT ON THE PREMISES AT ALL TIMES

HUNTINGTON BEACH FIRE DEPARTMENT
P. O. BOX 190 — 2000 MAIN STREET
HUNTINGTON BEACH, CA. 92648
TELEPHONE (714) 536-5411

FOR FIRE DEPARTMENT USE
DISTRICT 348
OCCUPANCY GROUP

PERMIT APPLICATION

FILE

(Print Clearly or Type)

APPLICANT NAME Patrick McDonagh - COAST CONTRACTORS, INC. (213) 430-9005

BUSINESS NAME SHELL WESTERN

BUSINESS ADDRESS 20101 GOLDENWEST STREET

HUNTINGTON BEACH

[ ] Aircraft Repair Hangar. To use any structure as an aircraft hangar for the purpose of servicing or repairing aircraft. See Section 24.102.

[ ] Aircraft Refueling Vehicles. For certificates required for persons operating refueling units. See Section 24.204.

[ ] Automobile Wrecking Yard. To operate an automobile wrecking yard. See Article 34.

[ ] Bonfires or Rubbish Fires. To kindle or maintenance of bonfires or rubbish fires. See Section 11.101.

[ ] Bowling Pin or Alley Refinishing. To conduct a bowling alley resurfacing operation. See Article 26.

[ ] Burning in Public Place. To ignite or burn waste material on publicly controlled land. See Section 11.113.

[ ] Candles and Open Flames in Assembly Areas. To use open flame or candles in assembly areas or restaurants, dining or drinking establishments. See Sections 25.116 and 25.117 for open flame and candles.

[ ] Cellulose Nitrate Storage. To store or handle more than 25 pounds of cellulose nitrate plastic (pyroxylin). See Article 27.

[ ] Combustible Fiber Storage. To store or handle combustible fibers in quantities in excess of 100 cubic feet. See Article 28.

[ ] Compressed Gases, Flammable. To store, handle or use at normal temperature and pressures more than 2000 cubic feet or flammable compressed gas or 6000 cubic feet of nonflammable compressed gas. See Article 74.

[ ] * Cryogens. (See Article 75.)

A. Produce, store or sell cryogenic fluids.
B. Store or transport nonflammable, nontoxic cryogens in excess of 500 gallons.
C. Store or use more than 10 gallons of liquefied oxygen, flammable cryogenic fluids or cryogenic oxidizers.

[ ] Drycleaning Plants. To engage in the business of drycleaning. Such permits shall prescribe the class of system to be used. See Section 79.1302.

[ ] Dust-producing Operations. To operate a plant producing dusts as defined in Section 76.101.

[ ] Excavations Near Flammable or Combustible Liquid Pipelines. To excavate or do any work below grade within 10 feet of any pipeline used for the transportation of flammable or combustible liquids. See Section 79.1201.

[ ] * Explosives or Blasting Agents. For permits for explosives or blasting agents, see Section 77.104.

[ ] Fireworks. For permits for fireworks, see Article 78.

[ ] Flammable Liquids. To handle, store or use flammable liquids. See Section 79.103. See also permits for spraying or dipping.

[X] * Flammable or Combustible Liquid Tanks. To remove, abandon, place temporarily out of service or otherwise dispose of any flammable or combustible liquid tank. See Section 79.221.

[ ] Flammable or Combustible Liquid Pipelines Operation. To use or operate a pipeline used for the transportation of flammable or combustible liquid tank. See Section 79.1201.

[ ] Fruit Ripening. To ripen fruit by the process described in Section 46.101.

[ ] * Fumigation or Thermal Insecticidal Fogging. To operate a business of fumigation or thermal insecticidal fogging. See Article 47.

[ ] Garages. To use any structure as a place of business for repairing motor vehicles. See Article 29.

[ ] * Hazardous Chemicals. To store, transport or handle certain quantities of hazardous material or any amount of highly toxic materials, pyrophoric materials, cryogenic or poisonous gases. See Article 80.

[ ] High-piled Combustible Stock. To use any building or portion thereof exceeding 2500 square feet for the storage of high-piled combustible stock. See Article 81.

[ ] Junk yards. To operate a wrecking yard, junk or waste material handling plant. See Article 34.

[ ] Liquefied Petroleum Gases. Except for portable containers of less than 120 gallons water capacity to install or maintained any LP gas container or operate any tank vehicle which is used for the transportation of LP gas. See Article 30.

[ ] Lumber Yards. To store lumber in excess of 100,000 board feet. See Article 82.

[ ] Matches. To manufacture matches or to store matches exceeding an aggregate 60 matchman's gross. See Article 83.

[ ] Magnesium Working. To melt, cast, heat treat or grind more than 10 pounds of magnesium per working day. See Article 48.

[ ] * Nitrate Film. To store, handle, use or display nitrate film. See Article 33.

[ ] Open Flame Devices in Marinas. See Section 11.412.
To use open flame devices for maintenance or repair of boats, slips or wharfs.

[ ] Oil Wells. To drill, own operate or maintain an oil well. See Section 79.1001.

[ ] Organic Coatings. To manufacture more than one gallon of organic coatings in a working day. See Article 50.

[ ] Ovens, Industrial Baking or Drying. To operate an industrial baking or drying oven regulated by this code. See Article 62.

[ ] Places of Assembly. To operate a place of assembly as defined in Article 9.

[ ] * Radium. To store or handle at any installation. See Article 80.

[ ] Refrigeration Equipment. To operate a refrigeration unit or system containing more than 20 pounds of refrigerant other than air or water. See Article 63.

[ ] Spraying or Dipping. To operate a spraying or dipping enterprise utilizing flammable liquids included within the scope of Article 45. See Section 45.101.

[ ] Tank Vehicles. To operate a tank vehicle for the transportation of flammable or combustible liquids. See Article 79, Division XI.

[ ] Tents and Air-supported Structures. To erect or operate a tent or air-supported structure covering an area in excess of 200 square feet unless such structures are not used exclusively for camping. See Article 32.

[ ] Tire Recapping. To operate tire recapping or rebuilding plants. See Article 31.

[ ] Waste Material Handling Plant. To operate a waste material handling plant. See Article 34.

*Limits of Quantity Remove: (1) 7500 gal. leaded gas, (1) 5000 gal. Stoddard solvent and (1) 2000 gal. Stoddard solvent. Must comply with City Specification No. 418. Must schedule appointment at least 24 hours in advance. Tanks to go to AMR - Ontario (714)947-2888

In accordance with the permit requirements of the Huntington Beach Municipal Code, Chapter 17.56, I hereby make application to maintain, store or handle materials or conduct a use or a process, as described herein, and install equipment connected with such activity. I agree to comply with all of the requirements of this Municipal Code.

Distribution: White, Fire Department
Yellow, Fire Department
Pink, Applicant

Date 5-13-88 Applicant Signature Patrick McDonagh

F.D. 036a 1/81

HUNTINGTON BEACH FIRE DEPARTMENT
P. O. BOX 190 • 2000 MAIN STREET
HUNTINGTON BEACH, CA. • 92648
TELEPHONE (714) 536-5411

DISTRICT 338
OCCUPANCY GROUP

PERMIT

By authority of the Huntington Beach Municipal Code, Chapter 17.56, a permit is hereby granted to:

SID LOCKE
(Permitee Name)

AMINOIL USA
(Business Name) located at

20101 GOLDENWEST, H.B. 536-6521
(Business Address) (Phone) to maintain,

store or handle materials, or conduct a use or a process as described herein, and install equipment connected with such activity in which the conditions, surroundings and arrangement are such that the intent of the Municipal Code may be complied with. A life/fire safety inspection will be conducted _____ a year by the Fire Department.

DESCRIPTION OF PERMITTED USE:

(6) 1000 GALLON PROPANE TANKS TO BE USED FOR FUEL FOR DRILLING RIG.

This permit is issued and accepted on the condition that all requirements of the Huntington Beach Municipal Code, Chapter 17.56 be fulfilled.

This permit does not replace any license or any permit that is required by law or that is required by another agency. Any change in the occupancy use shall require a new permit. This permit is non-transferable.

Valid Period UNTIL REVOKED

Frank A. Kelly
(Fire Marshal)

Dated Issued: MARCH 26, 1980

Richard B. Turnbaum
(Other Permitter)

THIS PERMIT SHALL BE KEPT POSTED ON THE PREMISES AT ALL TIMES.

FD 036b (9/76)

UNTIL REVOKED

HUNTINGTON BEACH FIRE DEPARTMENT
P. O. BOX 190 • 2000 MAIN STREET
HUNTINGTON BEACH, CA. • 92648
TELEPHONE (714) 536-5411

PERMIT APPLICATION

APPLICANT NAME Sid Locke RESIDENCE PHONE 839 5368

RESIDENCE ADDRESS 9474 Jasmine Circle, Fountain Valley, Ca.

LOCATION OF PERMITTED USE

BUSINESS NAME Aminoil USA BUSINESS PHONE 536 6521

BUSINESS ADDRESS 20101 Golden West, Huntington Beach, Ca. 92648

BUSINESS TYPE Oil and Gas Production

In accordance with the permit requirements of the Huntington Beach Municipal Code, Chapter 17.56, I hereby make application to maintain, store or handle materials or conduct a use or a process, as described herein, and install equipment connected with such activity. I agree to comply with all of the requirements of this Municipal Code.

DATE March 12, 1980 SIGNED _____

FOR FIRE DEPARTMENT USE

DESCRIPTION OF PERMITTED USE:

6 - 1000 Gal. Propane tanks to be used for fuel for drilling rig.

DISTRICT 338 OCCUPANCY GROUP _____ OCCUPANT LOAD _____ CODE SECTIONS _____

A plot plan is X is not ____ required. If required, submit on the reverse side or on an additional sheet.

CORRECTIONS REQUIRED: _____

DATE APPROVED 3-25-80 APPROVED BY Richard B. Hurlbaum

FD 036a (9/76)

Task Sheet

LA_BASIN FACL

SCAN NBR	CATEGORY REQUIREMENT REQ_DESCR	REFERENCES/ PARTIAL REFERENCES	RESP ORG	ACTN FREQ	STOR LOC	RET TIME
1773 E	PIPING PLAN/PROGRAM PIPELINES	LOCAL CODE HBOC 15.20.320	UNT	C	UNT	

Each operator shall submit a plot plan to the Huntington Beach Fire Department showing pipeline locations of all active onshore pipelines which are located off the leasehold, including waste water and trunk and gathering lines to transport crude oil.

Assigned To: AREA FOREMAN

Item #: 1773A Group :
Loc :

Due Date : 10/01/1994
Task Freq : 1Y
Next Due Date: _____

Current Status:

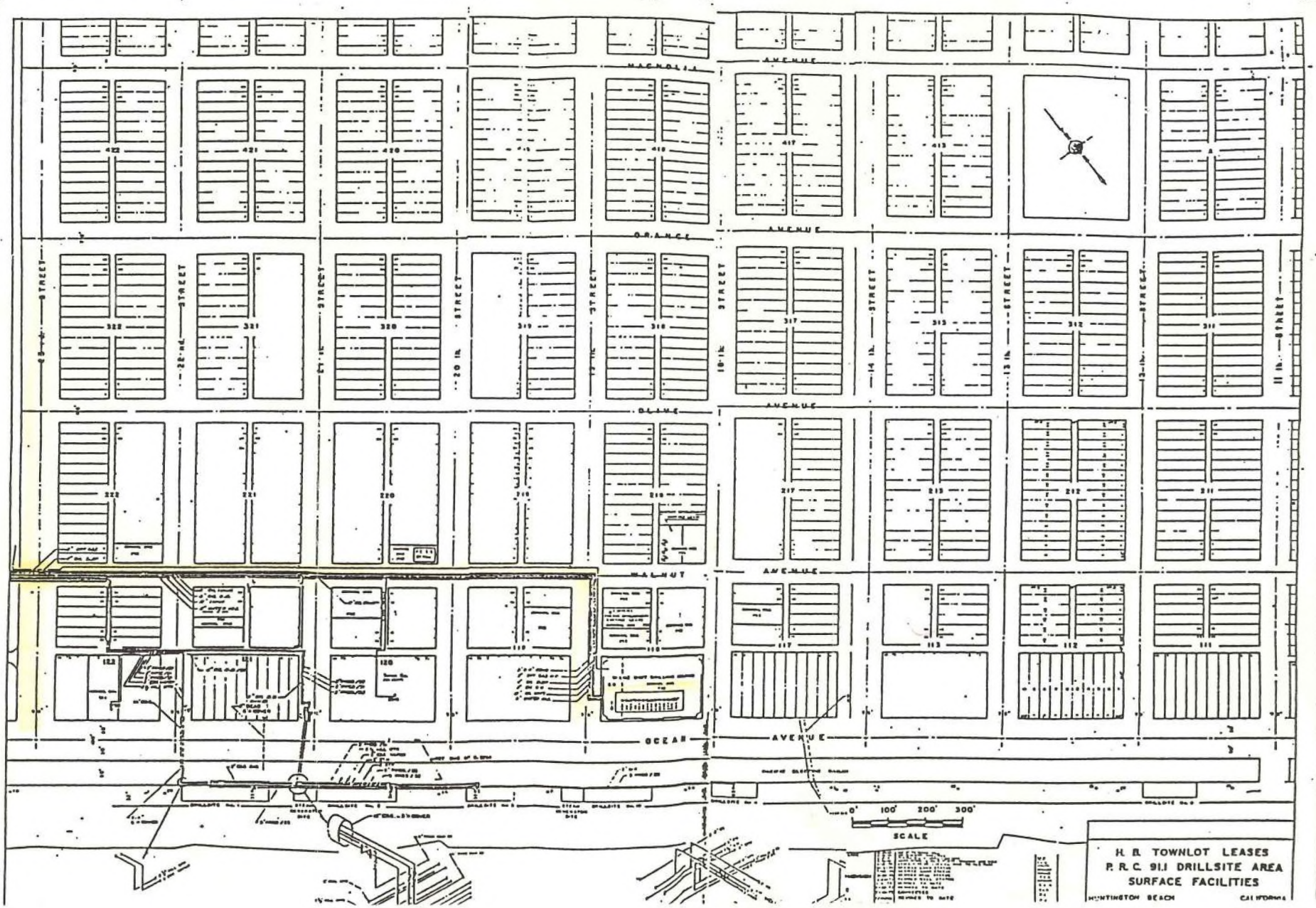
Date	Init	Comments
_____	____	Complete

Previous Status: COMPLETE Last Done On: 10/05/1993 By: AVB 518099

Foreman's Comments/Procedures:
SENT TO CAPT. HOWARD HUBERT WITH THE HBFA ON 1-11-94

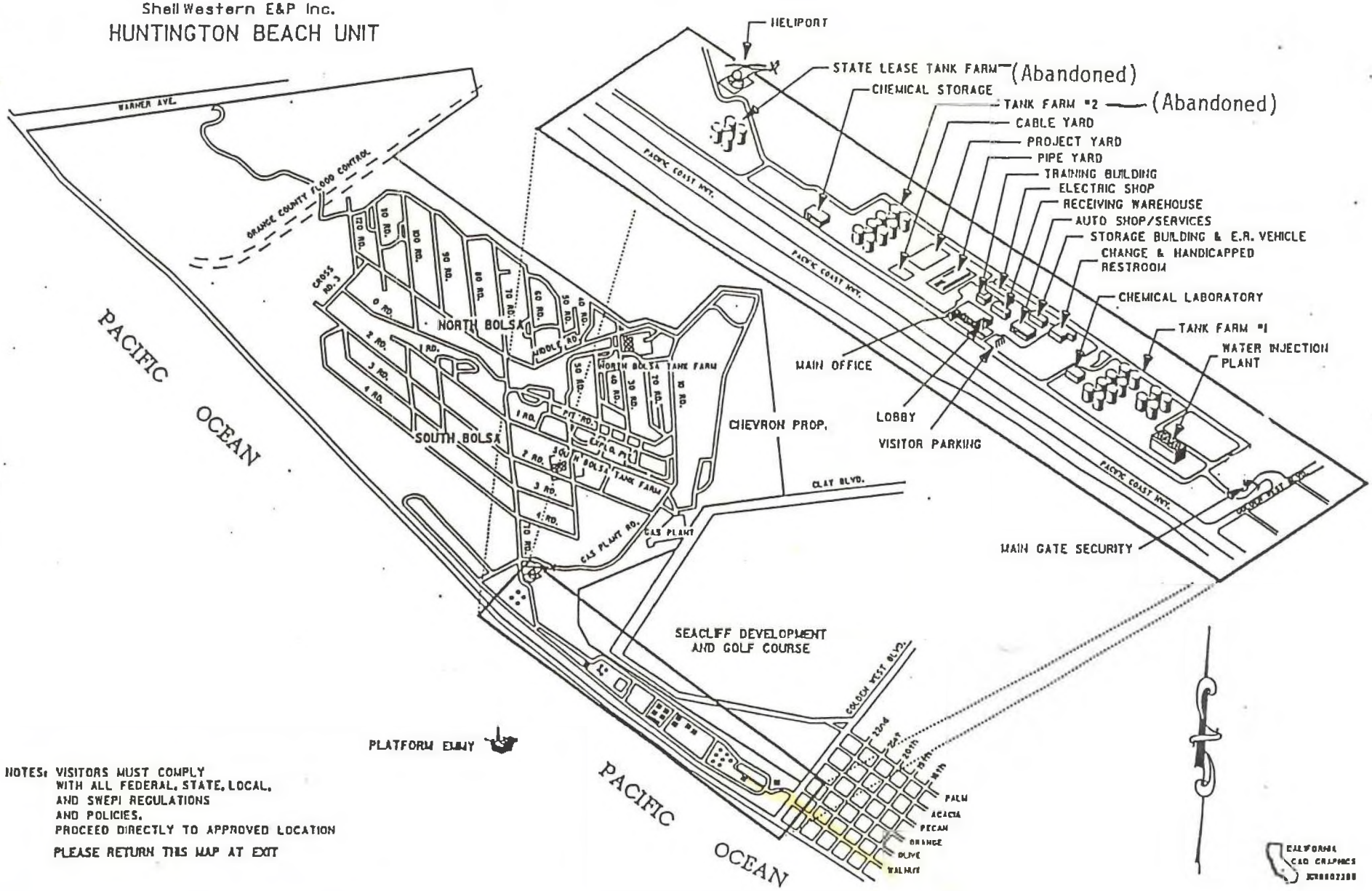
Reviewed By: AVB Emp_Nbr: 518099 Date: 1-11-95

Now Government St



Shell Western E&P Inc.

HUNTINGTON BEACH UNIT



NOTES: VISITORS MUST COMPLY
WITH ALL FEDERAL, STATE, LOCAL,
AND SWEPI REGULATIONS
AND POLICIES.
PROCEED DIRECTLY TO APPROVED LOCATION

PLEASE RETURN THIS MAP AT EXIT

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P 193-0687

320 (Field Code)

06 (Area Code)

-- (New Pool Code)

20 (Old Pool Code)

PERMIT TO CONDUCT WELL OPERATIONS

WATERFLOOD PROJECT

J. A. Ruhl, Agent
SHELL WESTERN E & P INC.
P. O. Box 11164
BAKERSFIELD CA 93389

Long Beach, California
July 9, 1993

Your proposal to **abandon** well **"State PRC 392" S-7**, A.P.I. No. **259-02919**, Section **3**, T. **6S**, R. **11W**, **S.B.** B. & M., **Huntington Beach** Field, **South Area, Offshore** area, **Lower Main** pool, **Orange** County, dated **6-24-93**, received **6-28-93** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this Division's Class **II2M** requirements, or better, shall be installed and maintained in operating condition.
2. The proposed **operations do not** fulfill the requirements of this Division for the abandonment of the lower portion of the hole without further consideration.
3. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
4. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Witness the squeeze cementing of the **8 5/8"** casing through the **retainer** at **830'±**.
   b. Witness the squeeze cementing of the **8 5/8"** casing through the **perforations** at **750'±**.
   c. Witness the location and hardness of the cement plug at **surface.**
   d. Inspect and approve the cleanup of the well site.

NOTE:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. The proposed surface plug shall not contain rock or gravel.
3. The base of the freshwater sands is at **1100'±**.

FML:kj

cc: Update
State Lands
Huntington Beach Fire Dept.

BLANKET BOND
Project Code: S57

Engineer: Floyd M. Leeson

Phone: 310/590-5311

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By _____
For R. K. Baker, *Deputy Supervisor*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111

RECEIVED
FEB 11 1993
FIRE DEPARTMENT
Mail Bodenhamer
2-11-93

FYI. 4-29-93

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 191
Huntington Beach, CA 92648

file 5-31-91

February 8, 1993

Oil Field Inspector - Huntington Beach Fire Dept.
2000 Main
Huntington Beach, CA 92648

Dear Neighbor:

About February 15, 1993 work will begin to clean, dismantle and haul away several idle storage tanks and related equipment located on our oil lease near your property. This work is part of our continuing plan to upgrade the overall aesthetics, safety and environment of this lease. This overall plan has been discussed with the Huntington Beach City Council, Amigos de Bolsa Chica and other interested parties.

This particular dismantling project is expected to take about 20 weeks. Hours of work will be 7:00 a.m. to 6:00 p.m., Monday through Friday, as per city code. Although this work will require heavy equipment and trucks typical of any construction project, we hope the final result -- a more pristine, less "industrialized" Bolsa Chica -- will be worth whatever inconvenience you may have been caused.

If you have any questions, please direct them to Gary Cram here at our Huntington Beach Production Unit at 969-3272 or Ron Shenkman, our local community relations consultant at 847-3581. We thank you in advance for your patience.

Sincerely,

L B Buckley

Larry B. Buckley
Production Foreman

LBB:mek

cc: Huntington Beach City Council
Huntington Beach City Administrator
Oil Field Inspector - Huntington Beach Fire Dept.
Amigos de Bolsa Chica
Bolsa Chica Conservancy
Huntington Beach Company
Signal Koll Company

ENVIRONMENTAL ASSESSMENT COMMITTEE AGENDA

Wednesday, September 4, 1991

2:00 P.M.

3rd Floor Center Conference Room

I. Environmental Assessment No. 91-25:

Applicant: Shell Western Exploration and Production, Inc.

Request: To dismantle the existing natural gas plant (Gas Plant #11) located northwest of the terminus of Seapoint Avenue within the proposed boundary of the Linear Park and to reconstruct a new gas plant within the boundaries of the existing Shell facility at PCH and Goldenwest Street. The new plant will consist of three buildings - control room. Sulferox enclosure and the compressor building. Buildings will range in height from 10-25 feet. The process will occur over a four year period.

Location: 20101 Goldenwest Street and Gas Plant #11 (northwest of terminus of Seapoint Avenue)

II. Environmental Assessment No. 91-36:

Applicant: City of Huntington Beach

Request: Deletion of Talbert Avenue between Goldenwest and Gothard Street as an arterial on the City's Circulation Plan of Arterial Streets and Highways to allow for subsequent development of a parking lot in conjunction with the Huntington Beach Central Library expansion project.

Location: Talbert Avenue between Goldenwest and Gothard Streets.

(0625d)

ENVIRONMENTAL CHECKLIST FORM

CITY OF HUNTINGTON BEACH

PLANNING DIVISION

ENVIRONMENTAL ASSESSMENT NO. 91-25

1. Name of Proponent: Shell Western Exploration and Production, Inc.
   Address: 5060 California Ave.
   Bakersfield, CA

2. Date Checklist Submitted for Review: September 4, 1991

3. Concurrent Entitlement(s): none

4. Project Location: 20101 Goldenwest Street and Gas Plant #11 (Northwest of Terminus of Seapoint Avenue).

5. Project Description: To dismantle the existing natural gas plant (Gas Plant #11) located northwest of the terminus of Seapoint Avenue within the proposed boundary of the Linear Park and to reconstruct a new gas plant within the boundaries of the existing Shell facility at PCH and Goldenwest Street. The new plant will consist of three buildings - Control room, Sulferox enclosure and the Compressor building. Buildings will range in height from 10-25 feet. The entire construction and removal process will occur over a four year period.

ENVIRONMENTAL IMPACTS

(Explanations of answers are included after each subsection.)

	Yes	Maybe	No
1. Earth. Will the proposal result in:			
a. Unstable earth conditions or changes in geologic substructures?	___	___	X
b. Disruptions, displacements, compaction or overcovering of the soil?	___	X	___

Discussion: Removal of the existing Gas plant facilities and construction of new facilities is anticipated to result in some distruptions, displacements, compaction and overcovering of soils. However, the existing plant site will be restored pursuant to Federal, State and local requirements. Construction of the new facilities is within the boundaries of the existing SWEPI facilities which is predominantly developed. No significant impact is anticipated.

	Yes	Maybe	No
c. Change in topography or ground surface relief features?	___	___	X
d. The destruction, covering or modification of any unique geologic or physical features?	___	___	X

Discussion (c, d): The new facility will be located within the boundaries of the existing SWEPI site which is primarily flat and does not contain any unique physical or geologic features. The new facility does not propose any substantial grading and is not anticipated to result in any significant topographical impacts. The existing Gas Plant (#11) site will be cleared and restored pursuant to State, Federal and local regulations. No significant impacts are anticipated.

e. Any increase in wind or water erosion of soils, either on or off the site?	___	___	X

Discussion: Grading and excavation activities associated with the proposed project may result in short-term wetting/covering of excavated soils and collection of runoff on site. No significant impacts are anticipated.

f. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet or lake?	___	___	X
g. Exposure of people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards?	___	___	X

2. Air. Will the proposal result in:

a. Substantial air emissions or deterioration of ambient air quality?	___	X	___

Discussion: The proposed project is anticipated to result in a decrease in emissions due to removal of old equipment and installation of new, more efficient equipment. Based upon background information submitted by SWEPI, the emissions of PM, SO_2, NO_x, CO, CO_2, VOC, CH_4, NH_3 and H_2S are reduced between 53 and 99%. The reductions will result in an improvement of ambient air quality. The type of emissions will not change from those at Gas Plant #11 and are typical for oil/gas production facilities.

The emissions from Gas Plant #11 and the estimated emissions from the proposed facility are presented in Figure 2-1a, 2-1b, 2-1c and 2-1d. The percent emission reduction by component are presented in Figure 2-2. (See Attachment 4).

Furthermore, the proposed plant will employ BACT as defined by the SCAQMD for all emission sources, internal combustion engines currently used to drive the gas compressors will be replaced with electric motor-driven compressors, steam boilers will be removed from service, and vents and pressure relief valves will be routed to a ground flare to minimize the emission of gas during upset conditions. No significant adverse impacts are anticipated.

b. The creation of objectionable odors?	___	X	___

Discussion: The amount of odor is anticipated to be reduced because the new gas plant will employ BACT for fugitive emissions, will have significantly less fugitive emission sources, and will have increased H_2S removal efficiency. Furthermore, removal of the existing facilities will improve the environment around the wetlands and the proposed linear park areas and is anticipated to result in air quality benefits in the area.

c. Alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?	___	___	X

3. Water. Will the proposal result in:

	Yes	Maybe	No
a. Changes in currents, or the course of direction of water movements, in either marine or fresh waters?	___	___	X

Discussion: Neither site is located in a floodplain, no streams flow across the property and no dredging of filling of water sources will be required to prepare the sites. No discharge of water will occur to any body of water off the site since all storm water and process waste water will be disposed on site.

b. Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?	___	___	X

Discussion: The proposed project will not result in changes in absorption rates, drainage patterns, or the rate and amount of surface runoff. No runoff will leave the site or be discharged into a public storm water drainage system. Rainwater falling within the existing SWEPI facility, where the new gas plant is to be located, is collected in several rainwater storm pits and pumped into two storm water surge tanks. The water is then pumped to a skim oil separator where trace amounts of oil are removed before the water is blended with the produced water in the field and re-injected into the oil reservoir. No significant impact is anticipated.

c. Alterations to the course or flow of flood waters?	___	___	X

Discussion: The site is classified in Zone X under the Flood Insurance Rate Map designations and is not located in a flood plain. No construction or demolition will occur in a flood plain.

d. Change in the amount of surface water in any water body?	___	___	X

Discussion: See 3a.

e. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?	___	___	X

Discussion: See 3a.

f. Alteration of the direction or rate of flow of ground waters?	___	___	X
g. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?	___	___	X
h. Substantial reduction in the amount of water otherwise available for public water supplies?	___	___	X

Discussion: The amount of water available to the public will not be affected by this project. The current water usage rate will not change upon completion of the proposed project.

i. Exposure of people or property to water related hazards such as flooding or tidal waves?	___	___	X

Discussion: See 3c.

4. Plant Life. Will the proposal result in:

a. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?	___	___	X
b. Reduction of the numbers of any mature, unique, rare or endangered species of plants?	___	___	X

	Yes	Maybe	No
c. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?	___	___	X
d. Reduction in acreage of an agricultural crop?	___	___	X

Discussion (a-d): Plant life is virtually non-existent on either site because both sites are currently occupied by oil facilities. Grasses and weeds that are present may be removed during the construction phase are not unique and are not anticipated to change the diversity or adversely impact plant species in the area.

5. Animal Life. Will the proposal result in:

	Yes	Maybe	No
a. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms or insects)?	___	___	X
b. Reduction of the numbers of any unique, rare or endangered species of animals?	___	___	X
c. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?	___	___	X
d. Deterioration to existing fish or wildlife habitat?	___	___	X

Discussion (a-d): Both sites are currently occupied by oil facilities and do not appear to support any unique, rare or endangered species of animals. However, Gas Plant #11 is located adjacent to a wetland area. Five endangered bird species are known to use, of have been reported overflying the Bolsa Chica wetlands. These include the Brown Pelican, the Light-footed Clapper Rail, the Peregrine Falcon and the Belding Savannah Sparrow. None of these have been observed at the new facility site or the Gas Plant #11 site.

SWEPI has contacted the California Department of Fish and Game and the U.S. Fish and Wildlife to provide information on these birds. SEWPI has agreed to work with these agencies to protect the endangered species during construction demolition and operating activities. The project will not require the removal of any critical habitat. Removal of Gas Plant #11 and future linear park development is anticipated to allow for increased foraging and perching areas as well as provide a reduction is the amount of emissions, noise and traffic near the wetland area.

6. Noise. Will the proposal result in:

Discussion:

	Yes	Maybe	No
a. Increases in existing noise levels?	___	X	___
b. Exposure of people to severe noise levels?	___	X	___

Discussion (a-b): Short term: Typical construction related noise will be generated at the project sites during the removal and construction phases. Construction noise sources include diesel or gasoline-powered dozers, graders, loaders, backhoes, dump trucks, air compressors and welding machines. Noise levels at 50 feet from the diesel-powered equipment typically range from 80 to 90 dBA. Gasoline-powered equipment noise levels typically range from 75 to 80 dBA at 50 feet. Construction noise is intermittent in nature and only occurs during the construction phase of the project. The use of off-site modular construction (prefabrication) will be maximized to reduce time required for on site construction. No construction or demolition activities will be permitted on Sundays, Federal holidays or between the hours of 8 p.m. to 7 a.m. Monday through Saturday, per the Huntington Beach Municipal Code, Chapter 8.40.

Long Term: Noise levels generated by new equipment in the proposed gas plant will be less than noise levels generated by equipment currently operating in Gas Plant #11. The main noise sources in Gas Plant #11, the internal combustion engine-driven compressors, will be replaced with quieter electric motor-driven compressors and are expected to reduce noise levels by 5 dBA. Furthermore, the compressors at the new facility will be located further from residences than those currently used at the Gas Plant.

7. Light and Glare. Will the proposal produce new light or glare? ___ X ___

Discussion: Demolition of the existing gas plant will remove light and glare adjacent to the wetlands area and is anticipated to result in a benefit. The new lighting will not be a significant change from the existing lighting at the facility. Exterior lighting proposed for the new facility will be limited to safety lighting. Outdoor lighting will be used to allow plant operators to work safely and efficiently, approximately 5 foot-candles of light around the process areas and 0.1 foot-candles around the buildings for safety. The project proposes providing lighting which will be shielded to prevent excessive glare off-site. Furthermore, the new site is not located near any residences or other sensitive receptors. No significant adverse impacts are anticipated.

8. Land Use. Will the proposal result in a substantial alteration of the present or planned land use of an area? ___ ___ X

Discussion: The new gas plant consists of the same type of activities as is currently conducted at the SWEPI facility and does not constitute an alteration of the present or planned zoning of the area.

9. Natural Resources. Will the proposal result in:

a. Increase in the rate of use of any natural resources? ___ ___ X

b. Substantial depletion of any non-renewable natural resource? ___ ___ X

Discussion (a-b): The facility will burn less fuel because of the transformation of the compressor drivers from natural gas to electric and the removal of the boilers. More electricity from Southern California Edison will be used by the site to supply the compressor drivers. The amount of electricity required by the project will not be a substantial increase in the demand of the existing facility. No new sources of energy will be required. No significant adverse impacts are anticipated.

10. Risk of Upset. Will the proposal involve:

a. A risk of an explosion or the release of hazardous substances (including, but not limited to oil, pesticides, chemicals or radiation) in the event of an accident or upset conditions? ___ ___ X

b. Possible interference with an emergency response plan or an emergency evacuation plan? ___ ___ X

Discussion (a-b): This project involves the replacement of Gas Plant #11 with a new gas plant. Demolition/removal of the existing plant will be subject to Federal, State and local requirements for clean-up of the site. Development of the new pump station is anticipated to decrease the risk due to the reduction of hazardous waste generated, less fugitive emissions of natural gas, reduction of natural gasoline storage and propane storage, and the increase in distance from the new gas plant to residential areas. The risk associated with the proposed gas plant will also be reduced by utilizing an improved fire protection system. SWEPI has been working with the City of Huntignton Beach Fire Dept. in preparing a fire protection system. Gas Plant operations will be subject to Fire Department approval.

	Yes	Maybe	No
11. Population. Will the proposal alter the location, distribution, density, or growth rate of the human population of an area?	___	___	X
12. Housing. Will the proposal affect existing housing, or create a demand for additional housing?	___	___	X
13. Transportation/Circulation. Will the proposal result in:			
a. Generation of substantial additional vehicular movement?	___	___	X

Discussion: The proposed project will not change the amount of vehicle trips to and from the Huntington Beach Facility. Vehicle trips from Gas Plant #11 to the Strip will cease once the new gas plant is operational and will result in a net reduction in trips. The reduction in traffic is anticipated to be beneficial to the animals that live in the area west of the existing facility.

b. Effects on existing parking facilities, or demand for new off-site parking?	___	___	X

Discussion: All parking for the new facility will be accommodated on-site.

c. Substantial impact upon existing transportation systems?	___	___	X

Discussion: The project will not have an impact upon existing transportation systems since the amount of vehicle trips and the number of employees at the site will remain the same. There will be a decrease in traffic through the Bolsa Chica wetlands when Gas Plant #11 is removed.

d. Alterations to present patterns of circulation or movement of people and/or goods?	___	___	X
e. Alterations to waterborne, rail or air traffic?	___	___	X
f. Increase in traffic hazards to motor vehicles, bicyclists or pedestrians?	___	X	___

Discussion: Removal of the existing Gas Plant and construction of the new plant will increase truck and construction equipment traffic. However, with the implementation of the following mitigation measure, no significant impact is anticipated.

Mitigation:

1. Applicant shall submit demolition/construction vehicle routing plans to the City of Huntington Beach Traffic Division for approval prior to issuance of demolition and building permits.

14. Public Services. Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:			
a. Fire protection?	___	___	X

Discussion: There are adequate fire services available to both sites. Th proposed project will not require any additional fire manpower or facilities. Discussion of fire related impacts has been addressed under 10 a,b.

b. Police protection?	___	___	X

Discussion: There are adequate police services available to both sites. The proposed project will not require any additional police manpower or facilities.

	Yes	Maybe	No
c. Schools?	___	___	X

Discussion: No school facilities will be impacted by the proposed project. The nearest school is located between 1.0 - 1.4 miles from either site. No significant impacts are anticipated.

d. Parks or other recreational facilities?	___	X	___

Discussion: Removal of the existing facilities (Gas Plant #11) and clean-up of that site will make the site available for future linear park development. The environmental impacts associated with removal of the oil facilities and subsequent park development have been addressed by the EIR for the linear park. This project will allow for future park development and is not anticipated to result in any significant adverse impacts to park or recreational facilities.

f. Other governmental services?	___	___	X

Discussion (e-f): All proposed facilities will be removed, constructed an operated by SWEPI; no additional governmental facilities or services will be required to serve the site.

15. Energy. Will the proposal result in:

a. Use of substantial amounts of fuel or energy?	___	___	X
b. Substantial increase in demand upon existing source of energy, or require the development of sources of energy?	___	___	X

Discussion (a,b): See 9 (a,b):

16. Utilities. Will the proposal result in a need for new systems, or substantial alterations to the following utilities:

a. Power or natural gas?	___	___	X
b. Communication systems?	___	___	X
c. Water?	___	___	X
d. Sewer or septic tanks?	___	___	X
e. Storm water drainage?	___	___	X
f. Solid waste and disposal?	___	___	X

Discussion (a-f): This project will not increase the demand on private or city water, natural gas, or sewage treatment systems. There will be an increase in the amount of electricity purchased from SCE but the increase will not require new systems or substantial upgrades.

17. Human Health. Will the proposal result in:

a. Creation of any health hazard or potential health hazard (excluding mental health)?	___	___	X
b. Exposure of people to potential health hazards?	___	X	___

Discussion (a,b): See 10 (a,b).

18. Aesthetics. Will the proposal result in the obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view? ___ X ___

Discussion: The proposed project will remove a gas facility from within the linear park boundary and relocate the operations with the existing SWEPI facility. Removal of the existing facilities may result in visual benefits to that area. The new facilities will be a maximum of 25 feet tall and due to the scale of structures and equipment already existing at the facility, are not anticipated to result in any significant adverse view impacts.

19. Recreation. Will the proposal result in an impact upon the quality or quantity of existing recreational opportunities? ___ ___ X

Discussion: The proposed project will not effect any existing recreational facilities.

20. Cultural Resources.

a. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archaeological site? ___ X ___

b. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object? ___ X ___

c. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values? ___ X ___

d. Will the proposal restrict existing religious or sacred uses within the potential impact area? ___ X ___

Discussion (a-d): The proposed project does not encroach into any known archeological sites; however, Gas Plant #11 is in the vicinity of several known archaeological sites. Excavation activities associated with removal of the Gas Plant may potentially encounter archaeologically or culturally significant materials. However, with implementation of the following mitigation measures, no significant impact is anticipated.

Mitigation:

1. An on-site qualified archaeologist should monitor all initial grading and excavation activities.

2. Should any cultural materials be encountered during the initial site servey or during grading and excavation activities, all activity shall cease and the archaeologist shall determine the appropriate course of action.

3. Should any human bone be encountered during any construction activities on the site, the archaeologist shall contact the coroner pursuant to Section 5097.98 and 5097.99 of the Public Resources Code relative to Native American Remains. Should the coroner determine the human remains to be Native American, the Native American Heritage Commission shall be contacted pursuant to State Law SB 297.

	Yes	Maybe	No

21. Mandatory Findings of Significance.

a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	___	___	X
b. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one which occurs in a relatively brief, definitive period of time while long-term impacts will endure well into the future.)	___	___	X
c. Does the project have impacts which are individually limited, but cumulatively considerable? (A project may impact on two or more separate resources where the impact on each resource is relatively small, but where the effect of the total of those impacts on the environment is significant.)	___	___	X
d. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	___	___	X

DETERMINATION

On the basis of this initial evaluation:

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

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION WILL BE PREPARED. ___

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

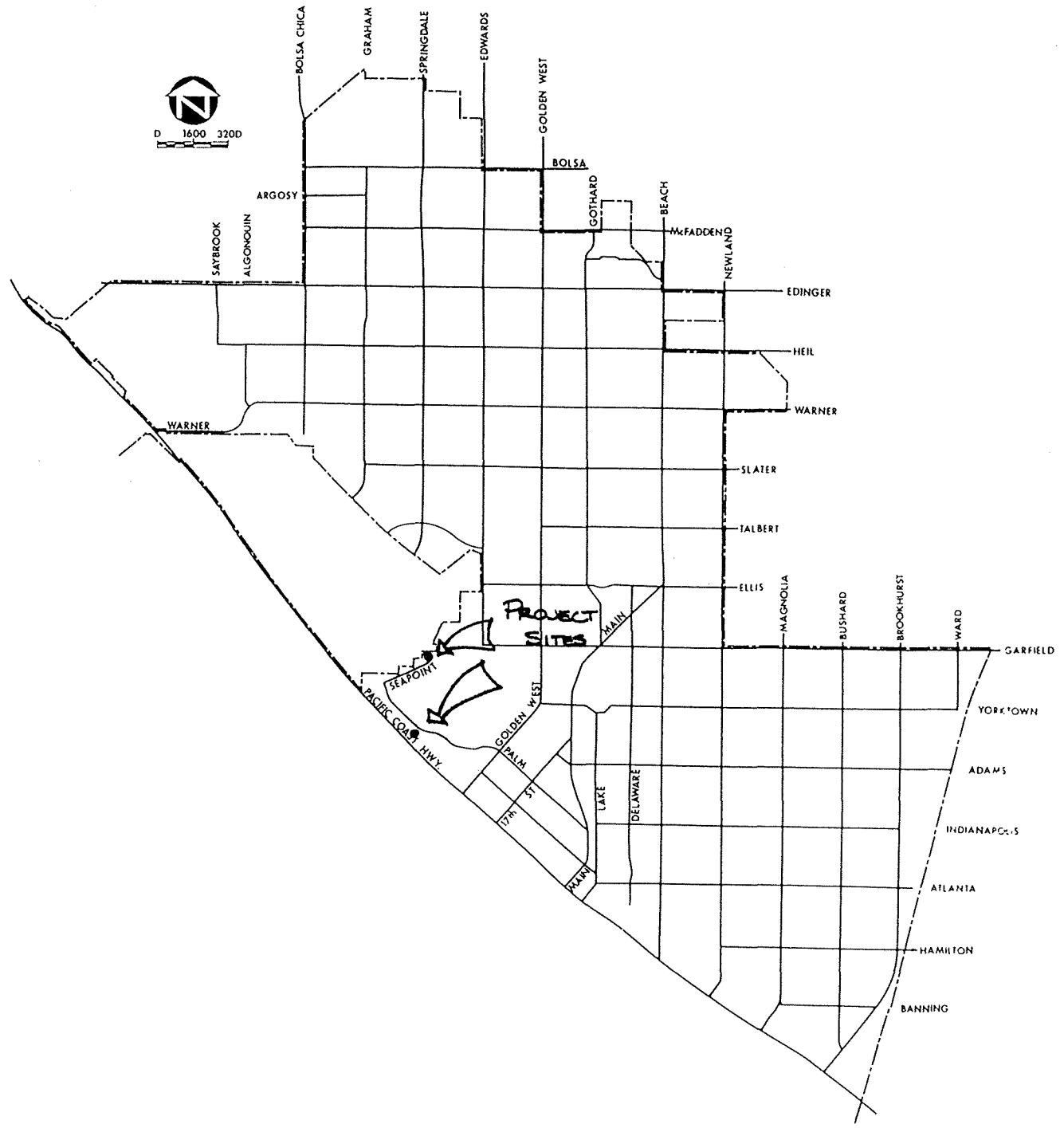
Date

Signature

Revised: March, 1990

For: City of Huntington Beach

Community Development Department



VICINITY MAP

HUNTINGTON BEACH PLANNING DIVISION

Figure 2-1a
Emission Rates - Total

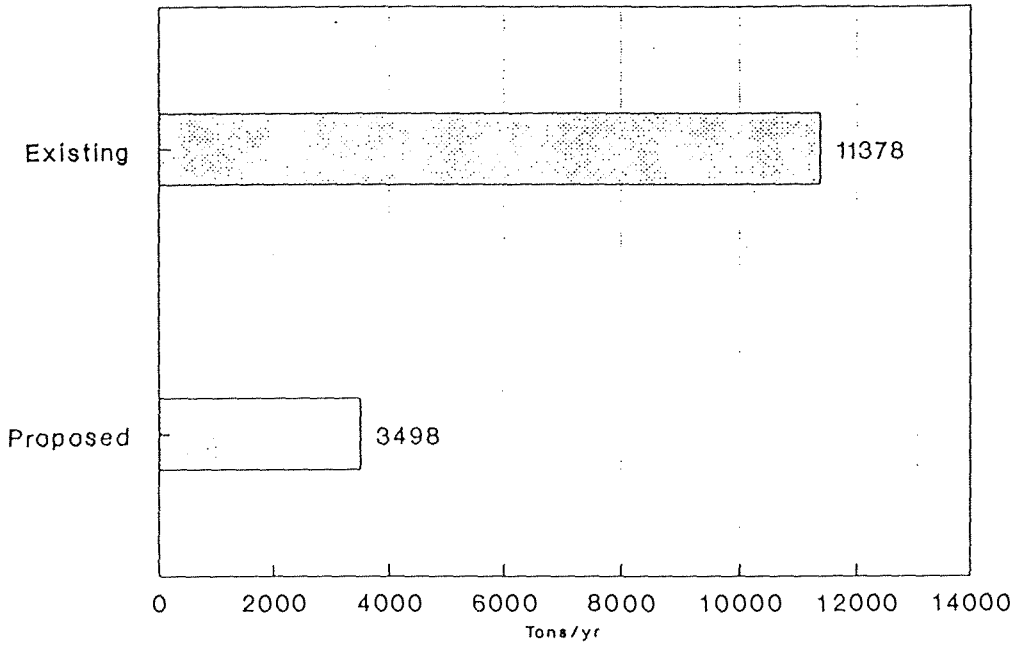


Figure 2-1b
Emission Rates - Existing and Proposed

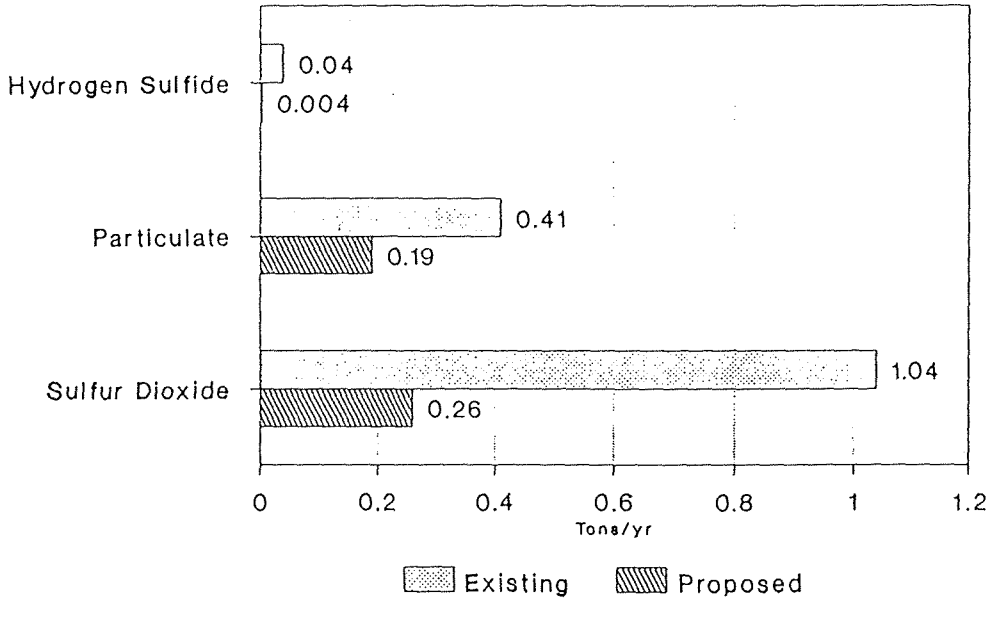


Figure 2-1c
Emission Rates - Existing and Proposed

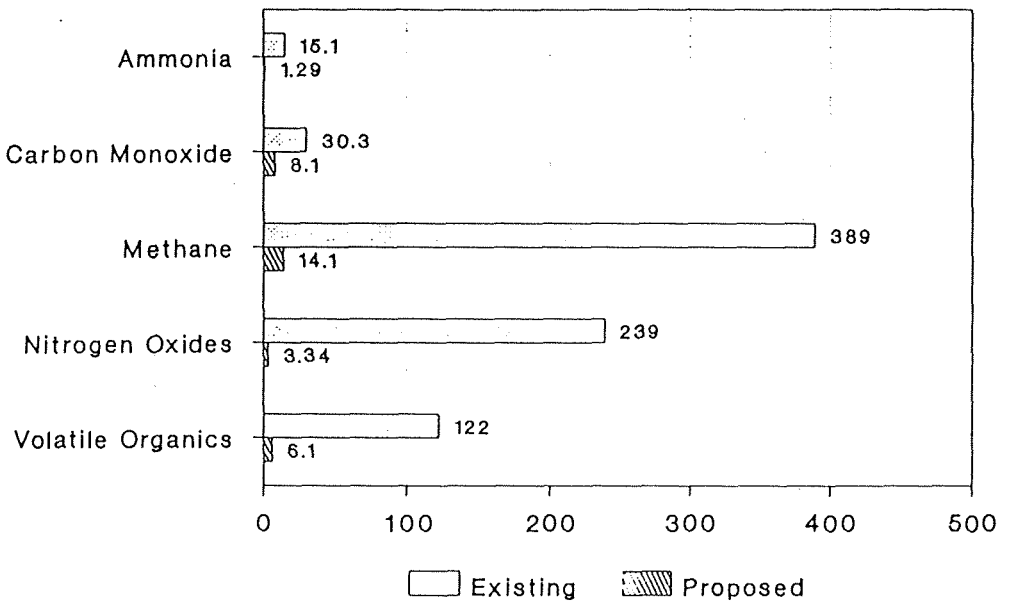


Figure 2-1d
Emission Rates - Existing and Proposed

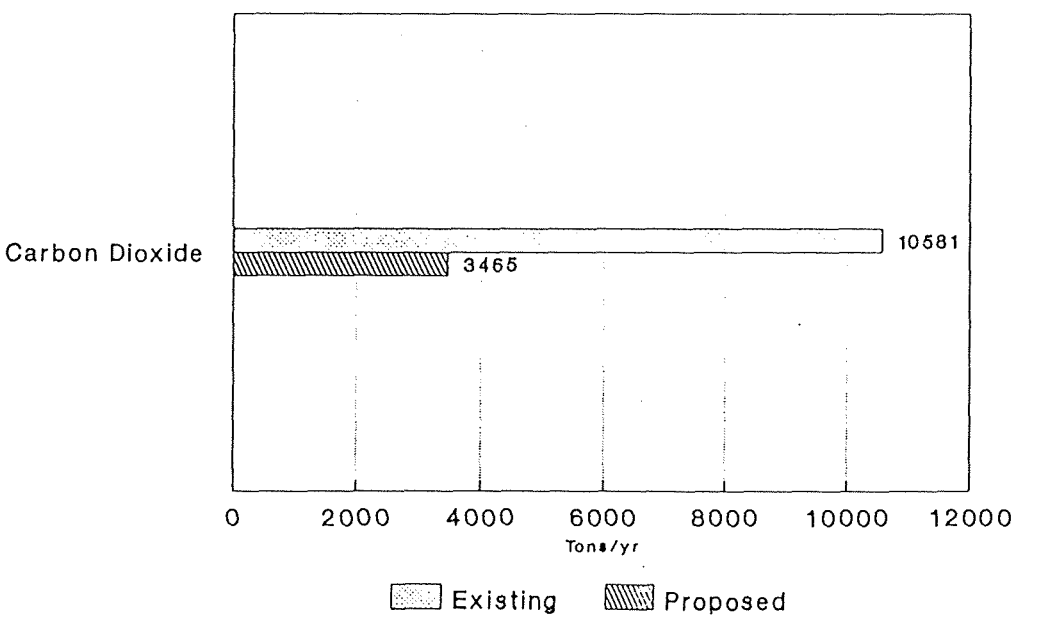
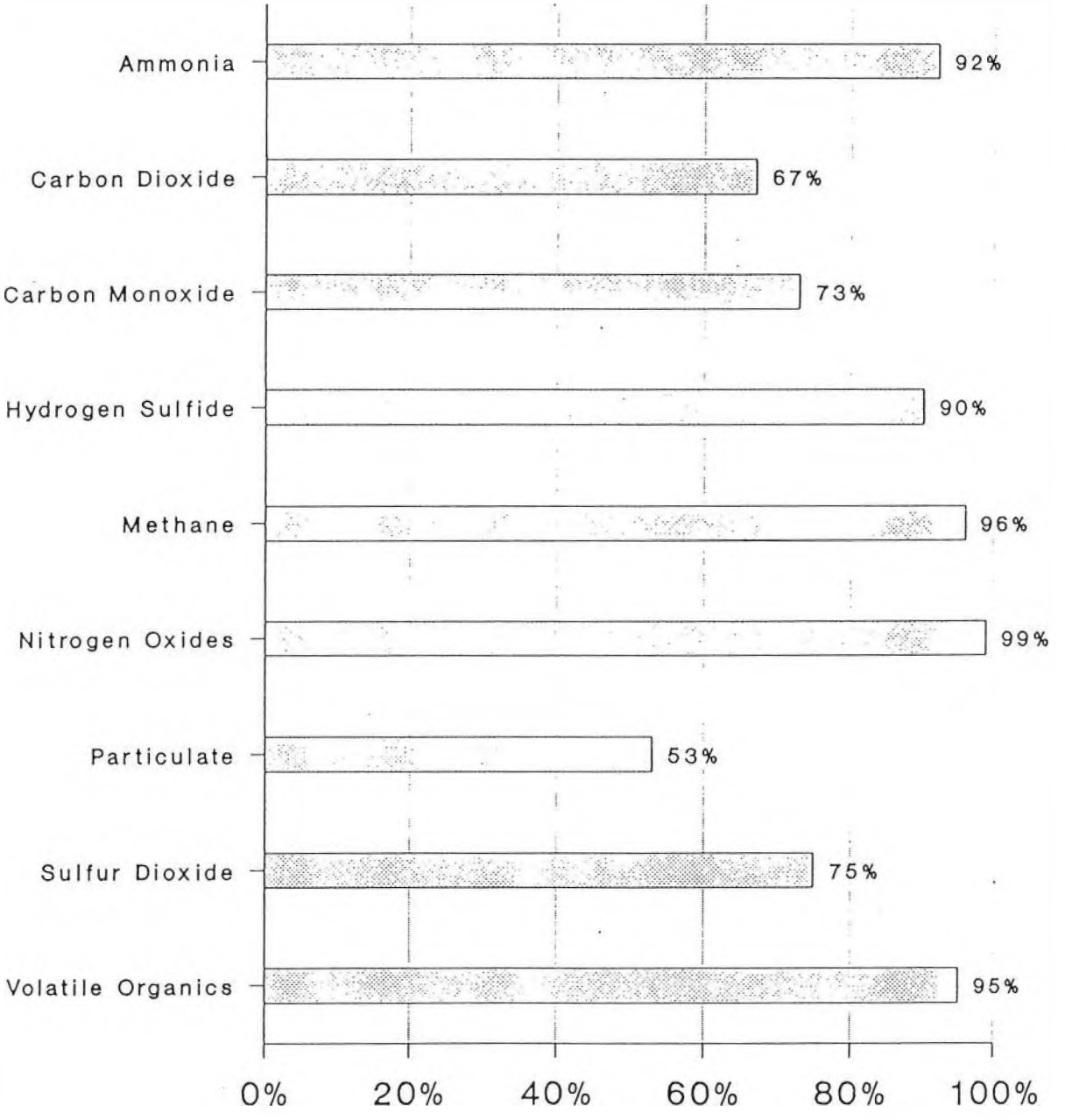


Figure 2-2
Percent Emission Reduction by Component



FYI.

RECEIVED
FEB 11 1993
FIRE DEPARTMENT
mail Bodenhamer
2-11-93

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company

P.O. Box 191
Huntington Beach, CA 92648

February 8, 1993

Oil Field Inspector - Huntington Beach Fire Dept.
2000 Main
Huntington Beach, CA 92648

Dear Neighbor:

About February 15, 1993 work will begin to clean, dismantle and haul away several idle storage tanks and related equipment located on our oil lease near your property. This work is part of our continuing plan to upgrade the overall aesthetics, safety and environment of this lease. This overall plan has been discussed with the Huntington Beach City Council, Amigos de Bolsa Chica and other interested parties.

This particular dismantling project is expected to take about 20 weeks. Hours of work will be 7:00 a.m. to 6:00 p.m., Monday through Friday, as per city code. Although this work will require heavy equipment and trucks typical of any construction project, we hope the final result -- a more pristine, less "industrialized" Bolsa Chica -- will be worth whatever inconvenience you may have been caused.

If you have any questions, please direct them to Gary Cram here at our Huntington Beach Production Unit at 969-3272 or Ron Shenkman, our local community relations consultant at 847-3581. We thank you in advance for your patience.

Sincerely,

L B Buckley

Larry B. Buckley
Production Foreman

LBB:mek

cc: Huntington Beach City Council
Huntington Beach City Administrator
Oil Field Inspector - Huntington Beach Fire Dept.
Amigos de Bolsa Chica
Bolsa Chica Conservancy
Huntington Beach Company
Signal Koll Company

Folder

№ 001472

HUNTINGTON BEACH FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648
(714) 536-5411 Fax (714) 374-1551

FIRE CODE PERMIT APPLICATION

Applicant Information

Applicant's Name: OKJ USA Inc.

Business Name: OKJ USA Inc. Phone: 619 624 2771

Address: 111 W. Ocean Blvd # 800 City: Long Beach State: CA Zip: 90802

Fire Permit Location

Business Owner: OKJ USA Inc.

Business Name: OKJ USA Inc. Huntington Beach Phone:

Address: 20101 Golden West City: State: Zip:

All requests for permits are processed in Fire Administration and must be paid prior to any permit issuance. **Payment by check made out to the CITY OF HUNTINGTON BEACH is accepted in the Fire Department. All other types of payments are accepted in the City Treasurer's Office.** Fees will be charged according to the Huntington Beach Fire Department fee schedule. The Fire Department, depending on the nature of the permit and the risk involved, may require additional plans, inspections, and fees. Permits are renewed annually and are non-transferable. A new permit shall be required when there is a change in use, occupancy, business operation, or ownership. All permits that are subject to annual renewal must have fees paid prior to the anniversary date. Inspections must be scheduled 48-hours in advance and can be arranged by contacting Fire Administration at (714) 536-5411.

Applicant's Signature: Michael Wuitz **Date:** 8 / 3 / 12

Operational Fire Permit Description HBFC Section 105.6

☐	.4	Carnivals & fairs	☒ .23	Hot works (welding)
☐	.6	Combustible dust collecting	☒ .27	Liquefied petroleum gases (LPG)
☒	.8	Compressed gases	☐ .32	Open flames and candles
☐	.12	Dry cleaning plants	☐ .34	Places of assembly
☒	.16	Flammable or combustible liquids	☐ .39	Repair garage & motor vehicle fuel dispensing
☐	.19	Fumigation & thermal insecticidal fogging	☐ .41	Spraying or dipping processes
☒	.20	Hazardous materials	☐ .43	Temporary membrane structures, tents & canopies
☐	.22	High-piled combustible storage	☐	Other

INSPECTED 6/26/2012 DA

Additional permit requirements, description, and/or activity dates:

Permit Code:

Permit Code:

Permit Code:

Plans and Specifications Required

1. Equipment installations and modifications
2. Special events
3. High piled storage (interior/exterior)
4. Fireworks displays
5. Other permit items as required
6. For any permit listed in HBFC Section 105.7

ACCOUNT: 10000100.42103

Permit Fee: 590

Amount Received: 590 —

5 permits

8/23/12

Grid: File #: 1277 Inspector:

Prepared by: Date Received: 8/15/12 Check #: 513703 Posted by:

White: Inspector Green: Treasurer Yellow: Finance Pink: Fire Administration Gold: Applicant

FD114 (05/08) FP
S:\Forms\Prevention\FD114 Fire Code Permit Application.doc

Mailed 2/13/13 MM

City of Huntington Beach
Fire Department
2000 Main Street
Huntington Beach, California 92648
Phone (714) 536-5411 Fax (714) 374-1551

FIRE DEPARTMENT PERMIT

OXY USA INC. (HUNTINGTON BEACH FIELD)
OXY USA INC. (HUNTINGTON BEACH FIELD)
111 W OCEAN BLVD Suite: 800
LONG BEACH, CA 90801

Effective Date: 08/06/2012
Expiration Date: 08/06/2013

PERMITTEE: OXY USA INC

LOCATION: 20101 GOLDENWEST

OCCUPANCY ID: 0000001277 DISTRICT: 3912 OCCUPANCY TYPE: H3

Appendix Chapter 1, Section 105, of the Huntington Beach Fire Code (HBFC) requires that a permit be obtained from the fire code official to authorize any operations or conditions that are identified in Section 105.6 or 105.7. This permit shall constitute permission to maintain, store or handle materials; or to conduct processes which produce conditions hazardous to life or property; or to install equipment utilized in connection with such activities; or to install or modify any fire protection system or equipment or any other construction, equipment installation or modification in accordance with the provisions of the HBFC where a permit is required. Such permission shall not be construed as authority to violate, cancel or set aside any of the provisions of the HBFC or other applicable regulations or laws of the jurisdiction.

The fire code official is authorized to revoke a permit issued under the provision of the HBFC when it is found by inspection or otherwise that there has been a false statement or misrepresentation as to the material facts in the application or construction documents on which the permit or approval was based including, but not limited to, any one of the following:

1. Conditions and limitations set forth in the permit have been violated.
2. The permit is used for a condition or activity other than that listed in the permit.
3. The permitee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of the HBFC within the time provided therein.
4. The permit was issued in error or in violation of an ordinance, regulation or the HBFC.

Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire code official. Permits are not transferrable and any change in occupancy, operation, tenancy or ownership shall require that a new permit be issued. All permits are valid for one year, unless otherwise indicated, and must be renewed prior to expiration.

105.6.16	Flammable and Combustable Liquids
105.6.20	Hazardous Materials
105.6.23	Hot Works Operations
105.6.27	LP-Gas
105.6.8	Compressed Gases

ISSUED BY: Huntington Beach Fire Department

PRINTED ON: 02/12/2013

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mark S. Kapelk
OXY USA Inc.
301 E. Ocean Blvd., Suite 300
Long Beach, CA 90802

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

LONG BEACH CA DOWNT 20 2012 USPS

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from ser* 7006 2760 0000 1369 6322

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

CITY OF HUNTINGTON BEACH

2000 MAIN STREET

FIRE DEPARTMENT

CALIFORNIA 92648

June 19, 2012

Mark S. Kapelke
Vice President, Engineering & Operations
OXY USA Inc.
301 E. Ocean Blvd., Suite 300
Long Beach, CA 90802

RE: Off-Shore Fire Life Safety Inspections for OXY USA, Inc. Oil Platform Emmy

Dear Mr. Kapelke:

The Huntington Beach Fire Department (HBFD) has reviewed the status of jurisdictional, authority, and responsibility to conduct off-shore fire / life safety inspections for OXY Platform Emmy.

After consulting with the State Lands Commission and the California State Fire Marshal's Office, it has been determined that the California State Lands Commission is the lead regulatory agency responsible for oil production in the State of California tidelands and submerged lands. Enclosed please find two letters verifying this responsibility.

As such, the State Lands Commission states they are the authority having jurisdiction and responsibility to conduct fire and safety inspections at this facility. Therefore, the HBFD will no longer conduct fire and life safety inspections for OXY Platform Emmy.

The HBFD has had a long and excellent working relationship with the offshore oil platform operators. We look forward to continuing this relationship and providing any assistance that we can. If you have any questions, please contact me directly at (714) 536-5564.

Sincerely,

William Reardon

William H. Reardon
Division Chief/Fire Marshal

WHR/sm

Enclosures (2)

c: Patrick McIntosh, Fire Chief
Jenifer McGrath, City Attorney
File

s:\prevention\1-oilfield program\oxy\oxy platform authority letter 06-19-12.docx

DEPARTMENT OF FORESTRY AND FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
P.O. Box 944246
SACRAMENTO, CA 94244-2460
(916) 445-8200
Website: www.fire.ca.gov

April 20, 2012

Patrick McIntosh, Fire Chief
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648

Dear Chief McIntosh:

Recently, at the request of your department, the Office of the State Fire Marshal facilitated a determination of responsibility and authority to conduct life safety inspections of oil drilling and production platforms located in State waters. The attached letter from the California State Lands Commission (SLC) delineated that the SLC has exclusive jurisdiction and provides local government with clarification on responsibility and authority to conduct life safety inspections of State water platforms.

This letter was sent to your agency for information purposes only. If you have any questions please contact Bob Gorham, Division Chief, Pipeline Safety Division at (562) 497-9102.

Sincerely,

TONYA L. HOOVER
State Fire Marshal

cc: Bill Reardon, Huntington Beach Fire Department

Attachment

CALIFORNIA STATE LANDS COMMISSION
200 Oceangate, 12th Floor
Long Beach, CA 90802-4331

CURTIS L. FOSSUM, *Executive Officer*
(916) 574-1800 FAX (916) 574-1810
California Relay Service from TDD Phone **1-800-735-2929**
from Voice Phone **1-800-735-2922**

Contact Phone: **(562) 590-5291**
Contact FAX: **(562) 590-5210**

March 8, 2012

File Ref: W 40623

Mr. Bill Reardon, Fire Marshall / Division Chief
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, CA 92648

Subject: Offshore Platform Life Safety Inspections

Dear Mr. Reardon:

This letter is in response to your inquiry through Mr. Bob Gorham, Division Chief of the Office of the State Fire Marshall, Pipeline Safety Division, regarding Life Safety Inspections at the two oil drilling and production platforms, Emmy and Eva, located in State waters offshore Huntington Beach. The inquiry is: who is responsible for conducting life safety inspections at these platforms.

Public Resources Code Section 6301 provides that the State Lands Commission has exclusive jurisdiction over all ungranted tidelands and submerged lands owned by the State, and that the Commission shall exclusively administer and control all such lands. I believe this definitively answers the question of responsibility.

I have attached a short description of the programs carried out by our engineers here at the Mineral Resources Management Division in Long Beach, and our inspection staff at the Huntington Beach field office. Should you wish to discuss these programs further, please contact Mr. Pete Johnson, Chief of Operations and Compliance, at (562) 590-5201.

Sincerely,

Marina Voskanian

Marina Voskanian, P.E.
Acting Division Chief
Mineral Resources Management Division

Attachment: MRMD Inspection Program Overview

Cc: Mr. Bob Gorham, Division Chief
Office of the State Fire Marshall
Pipeline Safety Division
3950 Paramount Blvd #210
Lakewood, CA 90712

MRMD SAFETY AND POLLUTION PREVENTION PROGRAMS

1. Platform Inspections

The MRMD Facility Inspection/Audit Program uses a two-pronged approach to assure Best Achievable Protection on marine facilities in its jurisdiction. First, the safety system must be designed correctly to prevent spills, and maintenance and training programs must be sufficient to preserve system integrity and provide qualified operation. This is discussed below in the "Facility Safety Audits" section. Second, the facility must be inspected regularly to verify that it is reliable and kept in a fully operable condition. Protection would be compromised by either design flaws or operational deficiencies.

The Platform Inspection Program provides the reliability part of the protection equation. Inspections are conducted at every offshore facility monthly, per MRMD regulations, and are conducted by MRMD inspectors from the Huntington Beach or Goleta field offices.

The core of each inspection is physical testing of the facilities production and processing alarms and shutdowns. This includes each well's surface and subsurface safety valves, the emergency shutdown system, high and low pressure and level alarms installed in vessels and tanks, toxic and combustible gas detectors, fire and smoke detection equipment, fire, abandon platform, and man overboard alarms, pipeline alarms, fire pumps, deluge and fire control system, and the emergency generator. In addition, the functioning of navigational aids is checked, spill response equipment is inventoried, maintenance and calibration records of pressure relief valves, cathodic protection rectifiers, firefighting equipment, and life saving equipment are reviewed. Additionally, pipeline right-of-way surveillance, spill drill, and boom deployment records are checked for compliance with required schedules. Each inspection requires two to three days complete, and includes testing of an average of 317 devices. Deficiencies are corrected immediately, or the affected equipment is shut down and isolated, which may require shut in of the entire facility.

The platform inspections provide assurance that the safety systems are kept in good operating condition, and that the equipment to respond to emergencies and spills is available and in good operating condition. The Inspectors also conduct daily surveillance of operations, pollution checks at facilities, beaches, and along pipelines, as well as royalty production verification duties.

2. Facility Safety Audits

The Safety and Spill Prevention Audit Program provides an analysis of the technical design of a facility's safety system and verification that the alarms and controls have been installed and operate as designed, and comply with MRMD regulations and industry standards from the American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), American Society for Testing and Materials (ASTM),

National Association of Corrosion Engineers (NACE), and other professional organizations. The audits are conducted by a staff of six engineers in the Long Beach MRMD office with training in process safety management auditing, system safety design, process hazard analysis, preventing human error, root cause analysis, mechanical integrity analysis, management of change, and facility fire, electrical and instrumentation codes, as well as extensive experience in oilfield operations.

This analysis requires that the facility's "Piping and Instrumentation Drawings," a schematic representation of the layout and specifications of all wellheads, flowlines, process piping, vessels, alarms, and controls at the facility, be field verified for accuracy before the technical evaluation is conducted. The audit also reviews equipment maintenance and corrosion prevention and inspection programs and results to evaluate fitness for purpose of pressure vessels, tanks, and piping. The design, maintenance, and condition of the electrical power distribution circuits and fire detection and control systems and equipment are analyzed and inspected by a third-party contractor for compliance with the National Electrical Code (NEC), including NEC 70, the National Fire Code (NFC). Training and qualification programs are reviewed to assure competent training in, and oversight of, operation of the facility, and the Facility Operating Manual and Spill Prevention Plan are reviewed to evaluate adequacy of procedures for normal operation, upset conditions, and response to spill incidents.

Organizational safety culture, and the level of maturity of safety programs, is evaluated by a Safety Assessment of Management Systems (SAMS) procedure, which assesses these factors through a series of confidential interviews with a cross-section of company operators, engineers, management, and contractors. The SAMS evaluation is a tool that addresses human error factors, and which can be used by the operator to improve programs to reduce human error.

The safety audit provides a comprehensive evaluation of facility design, condition, procedures, and personnel qualifications, producing a matrix of action items that are prioritized by risk, and corrected during a follow-up phase. Safety audits are repeated every five years, as recommended by industry and government codes.

3. Pipeline Inspections

CSLC regulations require that all oil and gas pipelines in State waters be internally and externally inspected annually. The test equipment and procedures must have prior approval, and the results of the tests must be reviewed and approved by MRMD engineers, in order to continue operation of the pipeline.

For the internal inspection, an electronic "smart pig" inspection is required. This inspection is performed by pumping an electronic magnetic flux tool through the pipeline. The tool measures and records wall thickness along the entire length of the pipeline, which identifies any internal or external variations in thickness. Thin spots due to corrosion are identified, as well as any damage to the pipeline. Smart pig runs are analyzed by MRMD engineers using American Society of Mechanical Engineers

(ASME) criteria and compared with previous runs to evaluate corrosion trends and remaining service life. If a smart pig run is not mechanically feasible, a hydrostatic test to 1.5 times the maximum operating pressure of the pipeline is required. The test pressure is required to be held for eight hours in order to pass. This standard is more stringent than any other known state or federal regulations for oil pipelines. Hydrostatic tests are witnessed by an MRMD engineer, and evaluated using a material balance spreadsheet developed by MRMD and used by many operators to verify absence of leaks.

The external inspection of a submerged pipeline may be conducted by a diver or remote operating vehicle (ROV). The external inspection is used to detect damage, movement, free spans (unsupported section of pipeline), or foreign objects lying across the pipeline, that may cause failure due to physical movement or accelerated corrosion. Video tapes and diver reports of external pipeline inspections are reviewed by an MRMD engineer, and corrective actions coordinated with the pipeline operator if necessary.

4. Structural Assessments

Another MRMD oversight program is the Platform Structural Reassessment Program. Since the 1990s, all offshore platforms in State waters have been analyzed to API RP2A standards by the operators using finite element numerical modeling programs and a non-linear time-history analysis to determine whether they would withstand a 100-year return period storm event and a 1000 year return period earthquake. These analyses have been independently verified by MRMD staff engineers. As a result of the analyses, structural strengthening projects were undertaken at many of the platforms.

Since the analyses, the underwater jacket structure of each platform is inspected on a periodic basis as outlined in API RP 2A guidelines, and corrective measures implemented as required. Facility modification proposals that involve addition or relocation of major equipment on a platform, such that deck loads may be significantly increased or redistributed, require analysis and verification that existing structure or additions to the structure will withstand the new loading. In addition, all new drilling projects from offshore platforms require a rigorous structural analysis and, if necessary, a complete platform requalification to ensure that the structure will withstand the additional loads imposed by the project, and to require any strengthening or maintenance needed to bring the structure up to current codes. Verification of these analyses is performed by an MRMD staff civil engineer with expertise in structural analysis. Major construction projects are monitored on site, and post construction review of as-builts us conducted in order to ensure that construction has been performed according to approved plans.

State of California • Natural Resources Agency
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

Edmund G. Brown Jr., *Governor*

July 31, 2017

Mr. Robert Bordenave Jr., Agent
California Resources Corporation
11109 River Run Boulevard
Bakersfield, California 93311

Dear Mr. Bordenave:

INJECTION AND PRODUCTION WATER ANALYSIS REPORT, HUNTINGTON BEACH FIELD, UIC PROJECT NOS. 320-03-001, 320-06-013, 320-06-014, 320-09-001, AND 320-21-001

The Division of Oil, Gas & Geothermal Resources (Division) has reviewed the "DOGGR Water Sampling and Analyses of Injection & Formation Water for Huntington Beach," report (dated December 31, 2016) in accordance with the May 18, 2015 Notice to Operators (NTO), Water Sampling Protocols and Analyses of Injection and Formation Waters (amended June 8, 2015).

The following are items noted by the Division. Please review these items and make the appropriate changes and/or comments.

- **Item 1**
  Table 1 – Field Data Table:
  The flow rate for well 392-T13 was not located on the field form. State in the comments section how this rate was obtained.

- **Item 2**
  Tables:
  Practical Quantitation Limits (PQLs) are not required; however, current California Maximum Contaminant Levels (MCLs) are required (refer to item 3 of the "Reporting" section of the NTO).

  The most current California MCL list is available on the Water Boards website at http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/MCLsandPHGs.shtml. Report only the California MCLs listed for the compounds tested. Not all chemical compounds have California MCLs.

- **Item 3**
  Radionuclides:
  Provide a radionuclide table with associated California MCLs (refer to item 2 above for the MCL reference document).

- **Item 4**
  Discuss the following in regards to the injection facility and injectate sample.

Briefly summarize the treatment process and verify that the injected zones sampled are processed and re-injected from this one facility.

If the sample was collected from an injection pipe, discuss the size and flow rate of the injection line and where the line is located in association to the treatment system (ex: 4-inch metal injection line with 100 psi flow was sampled from a one-inch sample port just before the fluid was re-injected back into the permitted injection zones).

If the sample was collected from a tank, discuss the size and location of the tank in association with the treatment process, the amount and type of fluids stored in the tank at the time of sampling, and the length of time the fluid was stored in the tank before sampling.

Discuss the amounts and types of additives or chemicals added to the fluids during treatment.

Discuss the amount and source of any added water, other than produced water.

- **Item 5**
  Total Dissolved Solids:

  Total Dissolved Solids (TDS) were not analyzed by gravimetric laboratory methods at the laboratory according to SM2540C. A field meter appears to have been used for TDS concentrations with a maximum range of 10 parts per thousand (ppt). The Division can not use the field data to determine TDS concentrations within each injection zone or within the injection fluids. These concentrations are vital to the Division's evaluation of each zone of injection. Due to the limited range and potential for inaccuracies of a field meter, the Division requires that these locations be re-sampled just for TDS and analyzed in the laboratory according to SM2540C.

  Schedule a date and time to collect these samples and call the Division, at least 24 hours in advance, to allow the Division an opportunity to witness the sampling.

- **Item 6**
  Stiff Diagram:

  Briefly discuss how the concentrations for bicarbonate (HCO_3) were calculated from the total alkalinity ($CaCO_3$) concentrations.

Provide the Division with the information requested above in a revised report format by October 1, 2017.

If you have any questions or need additional information, please contact me Greg.Berg@conservation.ca.gov or Rich Loverne Rich.Loverne@conservation.ca.gov at (714) 816-6847. Thank you for your submittal and efforts in complying with the Division's Notice to Operators.

Sincerely,

Gregory S. Berg

Gregory S. Berg, PG, CHg
Engineering Geologist
Department of Conservation
Division of Oil, Gas, and Geothermal Resources
5816 Corporate Avenue, Suite 100
Cypress, CA 90630

cc: Project file

GSB/rl

State of California • Natural Resources Agency
Edmund G. Brown Jr., *Governor*
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

RECEIVED
NOV 09 2017
FIRE DEPARTMENT

NOTICE OF VIOLATIONS

October 24, 2017

Report # V117- 0759
through
V117- 0768

CERTIFIED MAIL 7015 0640 0006 0249 6181

VIA EMAIL

Mr. Robert Bordenave, Jr., Agent
California Resources Production Corporation (C0885)
11109 River Run Boulevard
Bakersfield, CA 93311
rob.bordenave@crc.com

Subject: Failure to Conduct Adequate Mechanical Integrity Tests on Injection Wells in the Huntington Beach Oil Field.

Mr. Bordenave:

California Code of Regulations (CCR) section 1724.10 (j) states, in part, *"A mechanical integrity test (MIT) shall be performed on all injection wells…An MIT shall consist of a two-part demonstration as provided in subsections (j) (1) and (2). (1) …the annulus of each well must pass a pressure test at least once every five years… (2) …The second test of a two part MIT shall demonstrate that there is no fluid migration behind the casing, tubing, or packer. (3) The second part of the MIT must be performed within three months after injection has commenced. Thereafter…waterflood wells shall be tested at least once every two years…"*

According to our records, the below injection wells are not up-to-date with the required two part MITs, Radioactive Tracer Surveys (RA Surveys) and/or Standard Annular Pressure Tests (SAPTs):

Well	API #	NOV #	Last MIT Date	Violation Description
"North Bolsa" 44-1	059-02577	V117-0759	12/21/2011	Failure to conduct an SAPT
"South Bolsa" S-61-E	059-20556	V117-0760	9/17/2015	Failure to conduct an RA Survey
"South Bolsa" S-73-I	059-21378	V117-0761	8/24/2015	Failure to conduct an RA Survey
"State PRC 392" CJ-78	259-02870	V117-0762	6/7/1989	Failure to conduct an SAPT

"State PRC 392" UJ-3A	259-01923	V117-0763	No Record	Failure to conduct an SAPT
"State PRC 425" 502A	259-03066	V117-0764	3/17/2010	Failure to conduct an SAPT
"State PRC 425" CJ-287	259-20983	V117-0765	9/142014	Failure to conduct an RA Survey
"State PRC 425" CJ-287	259-20983	V117-0766	9/27/2012	Failure to conduct an SAPT
"State PRC 426" 4115	259-03239	V117-0767	7/23/2003	Failure to conduct an SAPT
"State PRC 426" 4132A	259-03256	V117-0768	4/21/2001	Failure to conduct an SAPT

The above wells shall be corrected within 30 days from the date of this letter, or the well shall be shut-in. If any of the above wells are not corrected within 30 days and shut-in, then California Resources Corporation shall submit a proposed schedule to this office on correcting the remaining wells. No well shall resume injection without the NOVs being corrected.

Failure to comply with the laws of California and this Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Rich Loverne at (714) 816-6883 or rloverne@conservation.ca.gov .

Sincerely,

Digitally signed by Scott Walker
DN: cn=Scott Walker, o=Department of Conservation, ou=Division of Oil, Gas & Geothermal Resources, email=scott.walker@conservation.ca.gov, c=US
Date: 2017.10.24 15:13:44 -07'00'

Scott Walker
Senior Oil and Gas Engineer, Area Supervisor

cc: Daniel J. Dudak, District Deputy
Eric Morita, Enforcement Unit, HQ DOGGR
Well Files
Huntington Beach Fire Department, Chief Reardon
Santa Ana Regional Water Quality Control Board
State Lands Commission, Marina Voskanian
Justin.Treitz@crc.com

State of California • Natural Resources Agency
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

Edmund G. Brown Jr., *Governor*

RECEIVED
NOV 09 2017
FIRE DEPARTMENT

NOTICE OF VIOLATION

November 3, 2017

Report # V117- 0769

CERTIFIED MAIL 7015 0640 0006 0249 6266

VIA EMAIL

Mr. Robert Bordenave, Jr., Agent
California Resources Production Corporation (C0885)
11109 River Run Boulevard
Bakersfield, CA 93311
rob.bordenave@crc.com

Mr. Bordenave:

FAILURE TO PROVIDE REVISED INJECTION AND PRODUCTION WATER ANALYSIS REPORT FOR THE HUNTINGTON BEACH INJECTION PROJECTS.

California Code of Regulations (CCR) section 1724.7 states, in part, *"The data required to be filed with the district deputy include the following...(a)(3) Reservoir fluid data for each injection zone...(c)(7) Source and analysis of the injection liquid..."*

On July 31, 2017, the Division of Oil, Gas, and Geothermal Resources (Division) sent California Resources Production Corporation (CRC) a letter listing the changes to be made to CRC's original Water Analysis Report (see attached). The letter gave CRC until October 1, 2017 to submit the revised report. As of the date of this letter, the Division has not received the revised Water Analysis Report from CRC. CRC has 10 calendar days to submit the required revised Water Analysis Report as per the July 31, 2017 letter.

Failure to comply with the laws of California and this Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Rich Loverne at (714) 816-6883 or rloverne@conservation.ca.gov .

Sincerely,

Digitally signed by Scott Walker
DN: cn=Scott Walker, o=Department of Conservation, ou=Division of Oil, Gas & Geothermal Resources, email=scott.walker@conservation.ca.gov, c=US
Date: 2017.11.03 14:13:42 -07'00'

Scott Walker
Senior Oil and Gas Engineer, Area Supervisor

cc: Daniel J. Dudak, District Deputy
Eric Morita, Enforcement Unit, HQ DOGGR
UIC Project Files
Huntington Beach Fire Department, Chief Reardon
Santa Ana Regional Water Quality Control Board
State Lands Commission, Marina Voskanian
Justin.Treitz@crc.com

State of California • Natural Resources Agency
Edmund G. Brown Jr., *Governor*
Department of Conservation
Division of Oil, Gas, and Geothermal Resources – District 1
5816 Corporate Avenue • Suite 100
Cypress, CA 90630
(714) 816-6847 • FAX (714) 816-6853

RECEIVED
NOV 20 2017
FIRE DEPARTMENT

NOTICE OF VIOLATIONS

November 14, 2017

Report # V117- 0770
through
V117- 0799

CERTIFIED MAIL 7015 0640 0006 0249 6280

VIA EMAIL

Mr. Robert Bordenave, Jr., Agent
California Resources Production Corporation (C0885)
11109 River Run Boulevard
Bakersfield, CA 93311
rob.bordenave@crc.com

Mr. Bordenave:

FAILURE TO CONDUCT MECHANICAL INTEGRITY TESTS ON INJECTION WELLS IN THE HUNTINGTON BEACH OIL FIELD.

California Resources Production Corporation (CRC) is out of compliance with mechanical integrity testing in the Huntington Beach oil field. According to our records, the injection wells listed in *Table 1* are not up-to-date with the required two-part mechanical integrity tests (MIT's), Radioactive Tracer Surveys (RA Surveys) and/or Standard Annular Pressure Tests (SAPT's).

California Code of Regulations (CCR) section 1724.10 (j) states, in part, *"A mechanical integrity test (MIT) shall be performed on all injection wells…An MIT shall consist of a two-part demonstration as provided in subsections (j) (1) and (2). (1) …the annulus of each well must pass a pressure test at least once every five years… (2) …The second test of a two part MIT shall demonstrate that there is no fluid migration behind the casing, tubing, or packer. (3) The second part of the MIT must be performed within three months after injection has commenced. Thereafter…waterflood wells shall be tested at least once every two years…"*

Table 1

Well	API #	NOV #	Last MIT Date	Violation Description
"North Bolsa" 102-W	059-21245	V117-0770	5/30/2013	Failure to conduct an RA Survey
"North Bolsa" 102-W	059-21245	V117-0771	1/21/2011	Failure to conduct an SAPT
"North Bolsa" 24-I	059-21395	V117-0772	5/26/2015	Failure to conduct an RA Survey
"North Bolsa" 62-A	059-02537	V117-0773	8/6/2009	Failure to conduct an RA Survey
"North Bolsa" 62-A	059-02537	V117-0774	2/25/2010	Failure to conduct an SAPT
"State Prc 392" CJ-113	259-02882	V117-0775	No Record	Failure to conduct an RA Survey
"State Prc 392" CJ-113	259-02882	V117-0776	No Record	Failure to conduct an SAPT
"State Prc 392" CJ-196A	259-02803	V117-0777	No Record	Failure to conduct an RA Survey
"State Prc 392" CJ-196A	259-02803	V117-0778	No Record	Failure to conduct an SAPT
"State Prc 392" J-11C	259-02800	V117-0779	6/30/2010	Failure to conduct an RA Survey
"State Prc 392" J-11C	259-02800	V117-0780	3/10/2010	Failure to conduct an SAPT
"State Prc 392" J-47B	259-02829	V117-0781	No Record	Failure to conduct an RA Survey
"State Prc 392" J-47B	259-02829	V117-0782	No Record	Failure to conduct an SAPT
"State Prc 392" S-135B	259-03048	V117-0783	No Record	Failure to conduct an SAPT
"State Prc 392" S-137A	259-03050	V117-0784	No Record	Failure to conduct an RA Survey
"State Prc 392" S-137A	259-03050	V117-0785	No Record	Failure to conduct an SAPT
"State Prc 392" S-162	259-03085	V117-0786	No Record	Failure to conduct an RA Survey
"State Prc 392" S-162	259-03085	V117-0787	No Record	Failure to conduct an SAPT
"State Prc 392" S-164	259-02821	V117-0788	9/29/2011	Failure to conduct an RA Survey
"State Prc 392" S-164	259-02821	V117-0789	7/4/2011	Failure to conduct an SAPT
"State Prc 392" S-28A	259-02938	V117-0790	4/28/2010	Failure to conduct an RA Survey
"State Prc 392" S-28A	259-02938	V117-0791	3/10/2010	Failure to conduct an SAPT
"State Prc 392" S-34A	259-02943	V117-0792	No Record	Failure to conduct an RA Survey
"State Prc 392" S-34A	259-02943	V117-0793	No Record	Failure to conduct an SAPT
"State Prc 392" S-43A	259-02956	V117-0794	9/17/2014	Failure to conduct an RA Survey
"State Prc 392" S-43A	259-02956	V117-0795	No Record	Failure to conduct an SAPT
"State Prc 392" UJ-65B	259-02843	V117-0796	5/19/2015	Failure to conduct an RA Survey
"State Prc 392" UJ-65B	259-02843	V117-0797	2/25/2010	Failure to conduct an SAPT
"State Prc 425" UJ-257	259-20740	V117-0798	No Record	Failure to conduct an RA Survey
"State Prc 425" UJ-257	259-20740	V117-0799	No Record	Failure to conduct an SAPT

The wells listed in *Table 1* are currently shut-in and not injecting. CRC shall submit a proposed schedule to this office on correcting the NOV's. CRC shall submit the proposed schedule within 10 days of the date of this letter. Injection in the individual wells listed in *Table 1* shall not resume until the well has passed the required MIT's.

Failure to comply with the laws of California may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

If you have any questions, please contact Rich Loverne at (714) 816-6883 or rloverne@conservation.ca.gov .

Sincerely,

Digitally signed by Scott Walker
DN: cn=Scott Walker, o=Department of Conservation, ou=Division of Oil, Gas & Geothermal Resources, email=scott.walker@conservation.ca.gov, c=US
Date: 2017.11.13 17:25:17 -08'00'

Scott Walker
Senior Oil and Gas Engineer, Area Supervisor

cc:

Marina Voskanian, State Lands Commission
Chief Bill Reardon, Huntington Beach Fire Department
Santa Ana Regional Water Quality Control Board
Justin Treitz, California Resources Production Corporation Justin.Treitz@crc.com
Daniel J. Dudak, District Deputy, Daniel.Dudak@conservation.ca.gov
Eric Morita, Enforcement Unit, HQ DOGGR
Well Files

Emailed 12/12/2018 cl

RECEIVED
DEC 20 2018
FIRE DEPARTMENT

12/3/2018

API: 0405921733

Permit No.: 7005095

Fire Construction Permit approved
F2018-7936
↳ Finaled
Goes in MasterFile
MW-00001

Robert Bordenave
California Resources Production Corporation
11117 River Run Boulevard
Bakersfield, CA 93311-8957

Dear California Resources Production Corporation,

The Division has received your Notice of Intention to Deepen dated 11/28/2018 for State Prc 392 732, API. 0405921733, SU1136129 bond, Huntington Beach field, Sec. 04, T. 06S, R. 11W, SB B&M, Orange County.

Your Notice of Intention has been reviewed by our division in conjunction with records currently held by our office. Please review all categories below as statuses may have changed since submission.

DECISION: THE NOTICE OF INTENTION IS APPROVED PROVIDED THAT :

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment (BOPE), as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
a. A 6" diverter system on the 20" conductor.
b. Class IIIB3M, with hydraulic controls, on the 9 5/8" casing. All casing annuli control valves must meet, or exceed, the same minimum pressure rating as the BOPE. The pipe safety valve must be suitable for all pipe in use, including casing.
c. A 3M lubricator for wireline operations.

2. BOPE requirements for critical wells must also comply with the following:
a. Any and all control lines common to the BOPE and installed within 25 feet of the well bore must be shielded properly and insulated so the temperature rating is equal to or greater than 450 degrees Fahrenheit.
b. Separate controls must be connected to each preventer in the BOPE stack. All control stations must be capable of providing complete opening and closure of each preventer in the BOPE stack.
c. A minimum of one control station must be located at least 25 feet from the well bore.
d. An emergency backup system must be installed that utilizes an independent, explosive-safe source of actuating energy. The source of energy and all controlling mechanisms associated with the backup system must be located at least 25 feet from the well bore, and in close proximity to the control station described above.

e. An access line of 2-inch minimum outside diameter must be installed below the preventer(s). In addition to the control valve installed at the wellhead, the access line must have a minimum of one

control valve located at least 10 feet outside the cellar. The valve outside of the cellar will be the primary control valve for well work operations. The part of the access line located between the well bore and the control valve outside of the well cellar must be shielded properly and insulated so the temperature rating is equal to or greater than 450 degrees Fahrenheit.

3. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.

4. Well fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.

5. Sufficient material to control lost circulation of hole fluid shall be available for immediate use at the well site.

6. The 9 5/8" casing is cemented with sufficient cement to fill behind the casing from the shoe to the surface.

7. The 7" casing is cemented with sufficient cement to fill behind the casing from the shoe to surface.

8. The producing interval of this well is not less than 75 feet from the outer boundary of the parcel of land into which the well is drilled, and is not less than 150 feet, as measured horizontally, from the producing interval of any other well in the same zone.

9. A radial cement evaluation tool shall be run in the 7" casing from the shoe to 1,650' +/- to ensure zonal isolation outside the casing.

10. A directional survey shall be made and filed with this division within 15 days of completion of drilling.

11. The water shutoff effectiveness of the 7" casing shoe shall be demonstrated by a production test within 60 days of the well being placed on production.

12. Once drilled the well location shall be surveyed and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD 83.

13. No program changes are made without prior Division approval.

14. THIS DIVISION SHALL BE NOTIFIED TO:
a. Witness a test of the installed BOPE & 9 5/8" casing prior to drilling out the shoe of the 9 5/8" casing.
b. Witness a test of the installed BOPE & 7" casing prior to drilling out the shoe of the 7" casing.
c. Review the radial cement evaluation log within 15 days of completing or suspending drilling operations.

NOTES:
1. Hydrogen sulfide gas (H2S) is known to be present in this area, adequate safety precautions shall be taken prior to and during well operations.

2. Prior to notifying the Division engineer to witness the BOPE test, the blind rams must be tested. Information on the blind rams test must be entered on the tour sheet along with the signature of the person in charge.
3. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.
4. Upon completion of the proposed work, a Well Summary (form OG100), History of Oil or Gas Well (form OG103), and copies of all logs, tests, and surveys shall be submitted to this office.
5. All depths are based on the Drill Floor, which is 23' above Mat and 62.9' above sea level (10/19/2018).

6. This permit is for an oil or gas activity within the scope of the analysis set forth in the final environmental document(s) prepared and approved by the California Division of Oil, Gas, and Geothermal Resources (Division) as Lead Agency. The Division has considered the environmental document(s) and the analysis therein, made findings regarding the proposed oil or gas activity to any extent necessary, and issues this permit in the capacity as a Lead Agency with expertise in the activity(ies) authorized by this permit. The environmental document(s) and notice(s) filed with the State Clearinghouse can be found on the Division's website at http://www.conservation.ca.gov/dog/CEQA/Pages/CEQANotices.aspx/

The Division has also made a determination in relation to your Confidentiality Request.

DECISION: THE CONFIDENTIALITY REQUEST STATUS IS Not Applicable

If you have any supplemental questions, please contact your nearest DOGGR office or visit us at www.conservation.ca.gov/dog.

Sincerely,
Scott Walker

Senior Oil & Gas Supervisor

CC People:

CC Organizations:
State Lands Commission, City of Huntington Beach (Fire Dept.)

City of Huntington Beach

FIRE DEPARTMENT

2000 Main Street, Huntington Beach, CA 92648

Phone (714) 536-5411 Fax (714) 374-1551 Email fireinspection@surfcity-hb.org

Fire Department Well Permit

Address:

[RD 3711] California Resources Production Corporation
20101 Goldenwest St
Huntington Beach, CA 92648

Effective Date:

Valid until revoked.

Permittee:

Count of Oil Wells: 191

Name	Well Status	Well Type
405921148	Idle	Oil
405921150	Active	Oil
405921154	Idle	Oil
405921155	Idle	Oil
405921157	Idle	Oil
405921158	Active	Oil
405921159	Idle	Oil
405921160	Active	Oil
405921182	Idle	Oil
405921183	Active	Oil
405921132	Active	Oil
405921136	Idle	Oil
405921137	Idle	Oil
405921112	Idle	Oil
405921115	Idle	Oil
405921077	Idle	Oil
405921096	Active	Oil
405921102	Active	Oil
405921051	Active	Oil
405921054	Idle	Oil
405921060	Idle	Oil
405921073	Active	Oil
405921061	Active	Oil

405921003	Idle	Oil
405920984	Idle	Oil
405920969	Idle	Oil
405920774	Idle	Oil
405900208	Idle	Oil
405920792	Idle	Oil
405920801	Active	Oil
405920911	Idle	Oil
405920916	Idle	Oil
405920919	Active	Oil
405920920	Active	Oil
405920921	Idle	Oil
405920649	Idle	Oil
405920650	Idle	Oil
405920651	Active	Oil
405920688	Idle	Oil
405920709	Idle	Oil
405920711	Active	Oil
405920719	Active	Oil
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425920740	Idle	Oil
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405903108	Active	Oil
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405903118	Active	Oil
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405921764	Active	Oil
425921729	Active	Oil
405921765	Active	Oil
425921737	Active	Oil
	Active	Oil
	Active	Oil
	Active	Oil
	Active	Oil
	Active	Oil
	Active	Oil
	Active	Oil

15.12.010 Permit required. Permits shall be obtained from the City of Huntington Beach for the oil operations, activities, or structures in the City limits of Huntington Beach, as required by this title. (2491-7/81)

15.12.160 Grounds For Suspension Or Revocation. The Fire Chief may suspend or revoke any permit issued by the Fire Department under the provisions of this code upon finding any of the following: (3037-5/90)
(a) A permittee has failed, neglected or refused to comply with or abide by any of the conditions of the permit; (3037-5/90)
(b) That permittee has failed or neglected or refused to comply with or abide by, or has in any way violated any of the provisions of this code, or of any other ordinance of the City, or any other law, rule, or regulation either directly or indirectly, by reason of or in connection with or incidental to his conduct of oil operations;
(c) If any of the permittee's operations or the continuance thereof upon the premises covered by the permit are a menace or hazard to public or private property, or to any interest of the City, or to the lives or safety of persons;
(d) Any of the permittee's operations or the continuance thereof upon the premises covered by the permit constitutes a public nuisance as described in this title;
(e) Permittee has made a willful misrepresentation of facts in any application for any such permit, or in any report or record required by this code to be filed or furnished by permittee.
(2491-7/81, 3037-5/90)
The Fire Chief will set forth his findings in writing and send notice of the same to the permittee. Said notice will contain a date upon which the suspension or revocation take effect. (3037-5/90)

15.12.170 Effect Of Suspension Or Revocation Of Permit. No person shall carry on any operations performed under the terms of any permit during any period of permit suspension or revocation, or pending a judgment of the court of law upon any application for writ taken to review the decision or order of the City in suspending or revoking such permit; provided, however, that nothing therein contained shall be construed to prevent the performance of such operation as may be necessary in connection with a diligent and bona fide effort to cure and remedy the default or violation for which the suspension or revocation of the permit was ordered, or such operation as necessary for the safety of persons or as required by the Division of Oil and Gas. (2491-7/81)

Janice Van Mullem

Janice Van Mullem
Fire Marshal

RECEIVED

JUL 20 2004

FIRE DEPARTMENT

NOTIFICATION ONLY — PMT ✓ 7-27-04
DISTRIBUTION TO GEN Neighborhood by Aera. ✓ To File

AERA

Huntington Beach Sales Gas Conditioning Projects

Aera Energy LLC is installing two additional natural gas processing facilities at its Huntington Beach Unit beginning in the summer of 2004. Aera produces approximately 5,000 mcf per day of natural gas, which is processed on site in facilities consisting of towers, compressors, tanks and other equipment. These facilities separate water and natural gasoline from the natural gas prior to its delivery into the Southern California Gas Company system for transportation and subsequent delivery to customers.

The new facilities are designed to meet pipeline gas quality specifications. Compliance with these specifications reduces the possibility of pipeline corrosion.

The design and location of the additional facilities, which will be placed on the far side of existing facilities (closer to Pacific Coast Highway), have been planned to minimize visual or other impacts on nearby neighbors. Once the facilities are installed, neighbors should notice little difference from current operations.

During construction of the new facilities, neighbors may notice four narrow towers and a new pipe bridge as well as increased vehicle traffic in the vicinity of construction. To minimize any inconvenience to nearby residents, Aera is taking the following measures:

- Work will be scheduled during normal Huntington Beach construction hours of 7:00 a.m. to 7:00 p.m. five days a week.
- If required, Saturday work will be scheduled between 9:00 a.m. and 5:00 p.m.
- Dust control measures will be implemented.
- Most welding activities will take place in our welding shop to minimize noise.

All necessary construction and operating permits have been or will be secured from the City of Huntington Beach and the South Coast Air Quality Management District.

The updated gas processing facilities consist of a new dehydration unit, which replaces an existing water removal unit. Construction of the dehydration unit is expected to be completed by mid-September 2004.

An additional facility to reduce the carbon dioxide (CO_2) content of the natural gas will be installed by the end of March 2005.

Contacts: William Morris, Manager of Operations, (714) 969-3533
Susan Hersberger, Public Affairs Director, (661) 665-5602

February 2002

Bill Hosband
Hazardous Materials Specialist
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, CA 92648

SUBJECT: PRELIMINARY AGREEMENT ON HAZARDOUS MATERIALS SPILL RESPONSE FOR ORANGE COUNTY SANITATION DISTRICT FACILITIES

Dear Mr. Hosband;

As we discussed at our meeting of October 18, 2001 at our Huntington Beach facility, I would like to propose the following responses to hazardous materials spills at the Orange County Sanitation District (the district):

PRE-CONDITIONS:

1. All district personnel shall be trained in incident spill response, first responder operations (FRO) in accordance with 8 CCR 5192(q), hazard communication (8 CCR 5194) and personal protective equipment.
2. This procedure shall only apply to hazardous materials listed in our year 2000 hazardous materials business plan. This agreement shall be revised if hazardous materials change or quantities of hazardous materials increase by more than 10 percent.
3. This agreement shall not apply to contractor activities involving hazardous materials on district property. Contractors operating on district property shall be required to notify the district through our internal emergency procedures, and the Huntington Beach Fire Department shall be notified through the emergency 911 system. (EXCEPTION: Incidental Spills)

The district shall respond in the following manner to spills and releases of hazardous materials:

1. Incidental release as defined in 8 CCR 5192 (a)(3). District personnel shall be permitted to clean up incident releases of hazardous materials below a threshold of 5 gallons and a NFPA 704 rating below 3 in any category. A qualified person as defined in 8 CCR 5192 (a)(3) must determine if the spill or release constitutes an incidental release.

   This may include spills caused by maintenance and operations activities involving paint and paint related materials, lubricants and small quantities of automotive servicing fluids. Incidental spills may also be caused during the offloading of bulk chemicals when hoses are removed from either the storage tank inlet or the portable tank outlet.

2. A non incidental, uncontained release over a threshold of 5 gallons and a NFPA 704 rating 3 or above in any category. The district shall implement a FRO response and contact the Huntington Beach Fire Department (HBFD) via 911.

   This may include spills caused by maintenance, operations and contractor activities involving paint and paint related materials, lubricants and small quantities of automotive servicing fluids, above a threshold of 5 gallons and a NFPA 704 rating 3 or above in any category.

3. A contained spill of any material. District personnel may remove the material from containment for use in the wastewater treatment process or related operations. The district shall notify the HBFD Hazardous Materials Specialist via facsimile and telephone.

   This will involve spills of hazardous materials used in the wastewater treatment process such as ferric chloride, hydrogen peroxide, sodium hydroxide, etc that even if spilled into containment, can still be used to enhance the wastewater treatment process.

4. Threatened Release of hazardous materials. The district shall implement a FRO response and contact notify the HBFD Hazardous Materials Specialist via facsimile and telephone.

   This will include potential transportation accidents involving hazardous materials and damage to storage tanks or containment structures.

Please review this proposal within the applicable management ranks of the Huntington Beach Fire Department. Once we have agreed on the details, we can finalize the document with the appropriate district management signatures.

Please contact me at (714) 593-7155 if you have any additional questions.

James Matte
Safety and Emergency Response Specialist
Orange County Sanitation District

JM:jm

Modified Hazardous Material/Substance Notification & Response Program

A Risk-Based Program

A. General Provisions:

The following general provisions must be met at all times by "*approved*" facilities under this plan:

1) Except as explicitly provided by this plan, all facilities are required to be in full compliance with applicable Federal, State and Local laws (codes) and regulations related to hazardous materials (including substances and wastes), fire and life safety.
2) Prior to a facility's approval under this plan, the facility shall submit to the Huntington Beach Fire Department its "Hazardous Materials/Substance Spill/Release Response and Mitigation Plan" for approval.
3) The components of this program and the facility's Hazardous Materials/Substance Spill/Release Response and Mitigation Plan shall be incorporated into the facility's Hazard Communications Program and training.
4) Prior to assignment (use under this program) all facility employees charged with the responsibility for response to and mitigation of spilled/released hazardous materials/substances (regardless of type/quantity) SHALL be appropriately trained and "certified" in accordance with current applicable Federal and State OSHA regulations. Records of such training and "certification" shall be available immediately upon request by any Fire Department representative.
5) Prior to assignment and thereafter at least quarterly, every facility shall conduct functional training covering the requirements of this program, the facility's spill/release and emergency response plan(s), response and mitigation operations/procedures, and approved clean-up/disposal procedures. All facility employees shall attend at least two (2) quarterly training sessions per year or shall be exempted from the facility's spill response/mitigation program. Records of such training, including attendance rosters, shall be maintained by the facility and made available immediately upon request by any Fire Department representative.
6) All facilities are required to conduct an annual Field Exercise. The exercise scenario, date and time SHALL be pre-approved by the Huntington Beach Fire Chief, or his designee. The Field Exercise SHALL be evaluated by the HBFD and appropriate corrective measures taken as directed by the Fire Department. All applicable facility employees shall attend at least one (1) annual Field Exercise every two (2) years or shall be exempted from the facility's spill response & mitigation program. Records of such exercise, including attendance rosters, shall be maintained by the facility and made available immediately upon request by any Fire Department representative.
7) All facilities shall have an approved plan, method(s) and on-site resources for the proper handling and disposal of clean-up related hazardous waste prior to final disposition.
8) Approved facilities under this program shall be subject to an annual review of there response program, including all related records, by the Huntington Beach Fire Department.
9) All spills/releases of hazardous materials/substances on "approved" facility property shall be subject to this plan. Notification and response operations of such spills/releases shall be conducted strictly in accordance with this program. Spill/releases of hazardous materials/substances off facility property shall be exempt from the provisions of this program (require applicable notification and response procedures – see current Federal, State and Local laws & regulations). Failure to adhere to the requirements of this program may result in disqualification at the sole discretion of the Huntington Beach Fire Chief, or his designee.

B. Definition of Routine Spill/Release Vs. Emergency

General provisions above must be met in all definitions below.

Routine Spill/Release = No HBFD Notification/Response Required

- Spilled/released material MUST be an identified/known substance.
- Situation MUST require no greater than ordinarily used personal protective equipment (PPE) for handling substance (skin, face & eye protection) and **DOES NOT** require the use of ANY respiratory protection.
- Situation MUST pose **NO** fire/explosion or toxic/unhealthful hazard to all facility employees or the public.
- Situation MUST pose **NO** airborne atmosphere that creates a fire and/or life safety hazard (flammable/explosive, O2 deficient/enriched, toxic/unhealthful).
- Situation MUST have appropriate functioning monitoring capability to ensure safe (non-hazardous) atmosphere present.
- Facility MUST ensure all required approved engineering controls are properly functioning and utilized.
- Situation MUST pose **NO** actual or potential risk to the environment (ground, water, air) or to any adjacent property and/or public right-a-way.
- Situation MUST have not resulted in injury(s) and/or fatality(s).
- Situation MUST require simple "in-house" mitigation measures (clean-up with rags and/or absorbent and proper disposal).
- Implemented appropriate mitigation measures pose NO risk to employees and/or the public.

Emergency Spill/Release = HBFD Notification ONLY/No HBFD Response Required

- ANY condition above is not met, AND:
- Spilled/released material MUST be an identified/known substance.
- Situation MUST pose **NO** fire/explosion and/or toxic/unhealthful hazard to non-response employees or the public.
- Airborne atmosphere poses **NO** fire or explosion hazard and/or only **MINIMAL** life safety hazard (O2 deficient/enriched, toxic/unhealthful) to facility response personnel ONLY (hazard must be adequately mitigated with use of PPE or engineering controls).
- Situation MUST have appropriate functioning monitoring capability to ensure a safe (non-hazardous) atmosphere is present.
- Adequate number of "qualified" response personnel and required resources are on site for immediate response and implementation of appropriate mitigation measures.
- **NO** off site response personnel and/or resources are required to adequately respond to the situation (pre-incident facility specific exceptions may be made with Fire Dept. approval).
- Facility MUST ensure all required approved engineering controls are properly functioning and utilized.
- Situation MUST pose **NO** actual or potential risk to the environment (ground, water, air) or to any adjacent property and/or public right-a-way.
- Situation MUST have not resulted in injury(s) and/or fatality(s).
- Situation MUST require "in-house" mitigation measures which facility response personnel have been previously trained and equipped.
- Implemented appropriate mitigation measures pose **NO** risk to non-response employees and/or the general public

Emergency Spill/Release = HBFD Notification & Response Required

- **ANY** of above conditions **CANNOT** be met.

C. Notification Procedure

D. Program Evaluation & Modification

E. Cancellation (Disqualification) and Withdrawal From Program

CITY OF HUNTINGTON BEACH

2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

Spill Response

- Send confirmation To Morris For 10/9/01 - Meeting

CONFIRMING —
1. 911/Notification
2. Reporting Notification FAX #'s
3. Form's Modified C FAX #'s
4. OCFA - Provide guidelines & Reporting Notification to OCFA.

May 24, 2001

William Morris, Manager of Operations
Los Angeles Basin, Coastal Asset
AERA Energy
20101 Goldenwest Street
Huntington Beach, CA 92648-2628

Dear Mr. Morris:

SUBJECT: AERA ENERGY – SPILL POLICY GUIDELINES

As a result of our discussions at the April 5, 2001 meeting, I am providing Release Reporting Guideline Modifications outlining the process recommended by the Fire Department in reporting spills. (See Attachment 1) When necessary, these guidelines will prove to be effective in alerting Fire Department personnel. Additionally, they provide the Huntington Beach Fire Department with sufficient notification and information to feel comfortable with in-house emergency response.

Submitting your existing forms by fax to the Huntington Beach Edwards Fire Station (714-375-8401) and Fire Administration (714-374-1551) as follow up reports is strongly encouraged, with timeliness as a key factor. Fax notification to the Fire Department would be placed on the AERA reporting forms in the following format:

1. **OIL & PRODUCED WATER RELEASE REPORT FORM**

   "b) IF OIL RELEASE OF ANY AMOUNT EITHER CONTACTS SURFACE WATER OR CROSSES THE HIGH WATER MARK IN A NATURAL DRAINAGE COURSE, NOTIFY:"

   - Edwards Fire Station Fax 714 375-8401
   - Fire Administration Fax 714 374-1551

   "c) IF RELEASE EXCEEDS ONE BARREL OF OIL TO LAND NOTIFY:"

   - Edwards Fire Station Fax 714 375-8401
   - Fire Administration Fax 714 374-1551

2. **OIL & PRODUCED WATER RELEASE REPORT FORM**

   "IF RELEASE OF OIL ENTERS WATERS NOTIFY:"

   - Edwards Fire Station Fax 714 375-8401
   - Fire Administration Fax 714 374-1551

3. HAZARDOUS MATERIALS RELEASE REPORT FORM

"b) IF AN 'RQ' IS REQUIRED, NOTIFY THE FOLLOWING IMMEDIATELY:"

- Edwards Fire Station Fax 714 375-8401
- Fire Administration Fax 714 374-1551

4. AIR RELEASE / DEVIATION / ENERGY /BREAKDOWN REPORT FORM

"b) IF A RELEASE IS INVOLVED, IMMEDIATELY NOTIFY:"

- Edwards Fire Station Fax 714 375-8401
- Fire Administration Fax 714 374-1551

I have included one of Boeing's Spill Response Forms for your review (Attachment 2).

Additionally, the Huntington Beach Fire Department recognizes that Orange County Fire Authority (OCFA) notification must be made if a spill or release affects County jurisdiction. The City is currently working with the Fire Authority to streamline your notification requirements and provide a procedure for the Fire Authority notification through the City of Huntington Beach.

In conclusion, I suggest that after you review our new recommendations (Attachment 1) we meet to evaluate these issues and mutually develop AERA's complete spill policy guidelines. Please contact my office at 714-536-5402 to schedule the meeting.

Sincerely,

Michael P. Dolder
Fire Chief

MPD/WH/DSO/bjg
s/fmt/olson/aera spill policy guidelines update 5-01

Attachments: Release Reporting Guideline Modifications, May 2000
HazMat Notification Huntington Beach Fire Department Form

c: Duane S. Olson, Division Chief/Fire Marshal
Charles L. Reynolds, Division Chief/Operations
Charles W. Burney, Battalion Chief/Emergency Services
Tim Greaves, Deputy Fire Marshal/Development
William Hosband, HazMat Program Manager
Milan Steube, AERA Energy
Al Mueller, Operations Vice President, Costal Asset

Aera Energy LLC – Huntington Beach Facility

Release Reporting Guideline Modifications
May 2001

- Aera will notify by fax HBFD (Edwards Station 714-375-8401) and Fire Administration (714-374-1551) ~~or in unincorporated areas, OCFA (714-538-3501)~~ immediately, when an unauthorized discharge becomes reportable under State, Federal, or local regulations ***and does not fall under the guidelines listed below for a 911 response***, and provide HBFD ~~(or OCFA)~~ copies of required written reports (if any).

- For releases reportable under State, Federal, or local regulations, ***and do not fall within the 911 guidelines***, Aera will make external notifications in accordance with its standard reporting forms for the Huntington Beach Facility. ***Other than 911 criteria, Aera will notify by fax Edwards Station at 714-375-8401 and Fire Administration at 714-374-1551.***

    1. Oil and Produced Water Release Report Form – Onshore
    2. Oil and Produced Water Release Report Form – Offshore
    3. Hazardous Materials Release Report Form
    4. Air Release / Deviation / Emergency / Breakdown Form

- ***Emergency Notification Guidelines (911). Aera will make emergency notification for releases that result in:***

    1. Serious or life-threatening injury.
    2. Potentially harmful exposure to a hazardous material.
    3. Threat to public health or safety.
    4. Explosive or serious fire hazard.
    5. Continuing and uncontrolled release of hazardous material.
    6. ***Release of flammable gas that presents an explosive or serious fire hazard.***
    7. ***Any unplanned release of a gas ~~(other than a puff)~~ that may present a significant ~~nuisance~~ odor and/or health hazard to the adjacent community.***
    8. ***Greater than fifty-five (55) gallons of hazardous*** MATERIALS

OES – INSURE FAX OES. If not.
Provide FAX Notification.

- Fire Administration Forms
- Release Policy.
- Landscape — Heartside Homes / Ocean colony.
  NO one to take care —
  Seapoint/PCH - Heartside.

Pcit
Twin Bushes and Shrubs
Redo Entrance
Port Apache –

ATTACHMENT 1

BOEING COMPANY
5301 Bolsa Ave., Huntington Beach, CA (714) 896-3311

Event No._____

HAZMAT NOTIFICATION HUNTINGTON BEACH FIRE DEPARTMENT

Call back phone number _____

Instruction:

Fill out the total form, fax this form to the Huntington Beach HazMat office.

Incident Location:	
Description/Cause of Incident:	
Date of Incident:	Time:
Chemical Name:	Physical State:
Volume:	Cause:
Environment Affected: Roadway _____ Bay/Ocean _____ Other (Describe):	Sewer/Storm Drain _____ Air _____
Describe Extent of Contamination:	
# of Persons Injured:_____	Medical Treatment Received? Yes_____ No_____
Action Taken:	
Reported By:	Date:
Signature:	

( ) FIRST NOTIFICATION to H.B. HazMat Fax (714) 375-8401 Edwards Station

( ) NOTIFICATION to H.B. HazMat Office Fax (714) 374-1551 City Hall

ATTACHMENT 2

OIL & PRODUCED WATER RELEASE REPORT FORM

(Huntington Beach Onshore) Page 1 of 2

☐ INITIAL REPORT ☐ FOLLOW UP REPORT #____

(THIS FORM MAY BE USED FOR EITHER REPORT. REPORTS ARE SUBJECT TO REVISION AS INFORMATION IS GATHERED)

1. Company Name: **Aera Energy LLC** Date:
2. Lease: Section: Township: Range:
3. Nearest Well (if applicable): Equipment involved:
4. Est. size of release: ____ x ____ x ____ / 12 = ____ x 0.1781 = ____ x ____ = ____ bbls oi
   (Width (ft) x Length (ft) x Depth (in) / 12 = Cubic ft X 0.1781 = Bbls/fluid X Cut = Bbls oil)
5. Est. Quantity oil spilled: Est. Quantity water spilled: In spill containment? Yes ☐ No ☐
6. Person Discovering Release: Date/Time of Discovery
7. Regulatory reporting by: Telephone Number
8. Date/Time when release began (or estimate):
9. Date/Time release stopped:
10. Full description of incident, to extent known, including injuries and fatalities, name of surface water impacted or dry Waterway, area contaminated ☐ Land ☐ Water ☐ Dry Waterway
11. Description of action(s) taken thus far to reduce release and begin cleanup:

12. Notifications:

a) IF PUBLIC HEALTH OR SAFETY IS THREATENED NOTIFY: Date & Time

☐ "911" Immediately

b) IF OIL RELEASE OF ANY AMOUNT EITHER CONTACTS SURFACE WATER OR CROSSES THE HIGH WATER MARK IN A NATURAL DRAINAGE COURSE, NOTIFY:

NOTIFY METRO NET DISPATCH TO CONTACT HBFD — Follow-up with FAX to HAZ/MAT TEAM — AND HAZMAT Specialist

	Control #	Person Contacted	Date & Time
☐ ~~Fire Chief~~ immediately (Edwards Station 714-375-8401 or OCFA 714-538-3501)			
☐ NRC immediately 800-424-8802			
☐ OES immediately 800-852-7550			
☐ OSPR 916-445-0045 or DF&G 562-590-5132			
☐ USCG 562-980-4450 or after hours 562-980-4444			
☐ DOGGR 714-816-6847			
☐ SLC 562-590-5201			
☐ SLC 714-536-3018			

FIRE DEPT. B/C

(949)765-4079

c) IF RELEASE EXCEEDS ONE BARREL OF OIL TO LAND NOTIFY: 911

☐ ~~Fire Chief~~ immediately (Edwards Station 714-375-8401 or OCFA 714-538-3501)			
☐ OES immediately 800-852-7550			
☐ DOGGR 714-816-6847			
☐ SLC 562-590-5201			
☐ SLC 714-536-3018			

FIRE Department

d) IF RELEASE OF PRODUCED WATER >10 BARRELS TO LAND NOTIFY:

☐ SLC 562-590-5201			
☐ SLC 714-536-3018			
☐ RWQCB 909-782-4130			
☐ DOGGR 714-816-6847			

e) IF RELEASE REACHES PCH NOTIFY:

☐ CHP 911 or 714-892-4426			

f) IF RELEASE REACHES THE BEACH NOTIFY:

☐ **" 911 " Immediately**			

g) IF RELEASE ORIGINATES FROM A DOT REGULATED PIPELINE >5 BBLS OR CAUSES SIGNIFICANT INJURIES, PROPERTY DAMAGE >$50,000, FIRE OR EXPLOSION OR RESULTS IN SHUTTING IN GAS PLANT:

☐ NRC immediately 800-424-8802			
☐ State Fire Marshall 818-337-9999			

EHS = Environmental, Health & Safety
DOT = Department of Transportation
NRC = National Response Center
SLC = State Lands Commission
OES = Office of Emergency Services
OSPR = Office of Spill Prevention & Response
USCG = United States Coast Guard
DOGGR = Division of Oil, Gas, Geothermal Resources
RWQCB = Regional Water Quality Control Board

AERA

FIRE DEPARTMENT

October 13, 2000

2000 OCT 18 P 3:07

Duane S. Olson, Fire Marshall
City of Huntington Beach Fire Department - Fire Protection Division
Fire Administrative Office
2000 Main Street
Huntington Beach, CA 92648

SUBJECT: WRITTEN SHUTDOWN PROCEDURE
INTERRUPTIBLE POWER EVENTS
AERA ENERGY LLC FACILITY

Dear Mr. Olsen:

As requested in your letter to Aera's A. E. Mueller dated September 21, 2000, please find attached a copy of the subject procedure.

Aera looks forward to meeting with you on Thursday, October 19, at 3:45 p.m. at your office to continue working toward satisfactory resolution of the issues raised in your recent letter and expressed in the meeting at Aera's facility on July 25, 2000.

If you have any questions or require any additional information prior to Thursday's meeting, please feel free to call me at (714) 969-3533.

Sincerely,

William A. Morris
Manager of Operations – L. A. Basin

Attachment

Aera Energy LLC • 20101 Golden West Street • Huntington Beach, CA 92648 • (714) 969-3200 • Fax (714) 969-3364

Huntington Beach Lease "Load Shed"
Shutdown Procedures
10/03/00 (Last Revised)

Purpose:

The purpose of the lease shutdown procedure is to ensure all production streams are shutdown within the facility and processes stabilized within 30 minutes.

Individuals involved:	Responsibilities:
Process Supervisor	Ensure that all elements of this procedure are understood and followed at the Huntington Beach production facility
Tank Farm Operator	Direct the workforce through this shutdown procedure. Ensure each step is completed before proceeding to next activity. Notify Process Supervisor or EHS Field Advisor if any unplanned events occur. (equipment problems, fluid or air releases, etc.)
Well Surveillance	Take direction provided by the Tank Farm Operator and complete activities as noted.
Documentation Lead	Mobilize to the Tank Farm facility and begin documenting the time that each activity is completed as well as who completed the activity.
Instrumentation & Electrical craft support	Take direction from Tank Farm Operator and complete activities as noted.
Gas Plant Operator	Take direction from Tank Farm Operator and complete activities as noted.

Procedure should also include:
- Notification – how
- Back-up for pers IAC/SL
- NEW personnel/The Fit.
- Practice/Simulate.
- Evaluation.
- Spill/Occurred –

may exist: NOTIFICATIONS
PROCEDURES/Reporting

The Following activities will begin once notification from Southern California Edison (SCE) is received by our Tank Farm Operator that a Load Shed event will occur in 30 minutes. This notification may be received by way of a "page" and/or by receiving a phone call from SCE.

Activities:	Who:
Tank Farm Operator to request Well Surveillance to lock open lease access gates at Goldenwest and Seapoint Well Surveillance to notify documentation Lead when activity is complete	Well Surv
Tank Farm Operator to shutdown wells from Control Room. Shutdown wells on computer showing MCC Bldgs.1 thru 4 Shutdown wells on computer showing Free Water Knock Outs Tank Farm Operator to notify Documentation Lead that activity is complete	Tank Farm Operator
Well Surveillance to perform "All Call" shutdown of Rod Wells at PC and notify Documentation Lead when activity is complete.	Well Surv
Well Surveillance to shutdown Gas Engine driven Rod Wells in Bolsa's and notify Documentation Lead when activity is complete.	Well Surv
Well Surveillance to take a surveillance drive to ensure remote equipment shutdown devices actually shut equipment down. (visual validation of shutdown) Well Surveillance to notify Documentation Lead when activity is complete.	Well Surv
Gas Plant Operator to shutdown the Dew Point Control Unit (DCU) per procedure. He is also to ensure Platform Emmy Gas Wells are shut-off at the Emmy Scrubber and at the DCU. Notify Documentation Lead when activity is complete.	Gas Plant Operator

Gas Plant Operator is to shut in the 425, 426, 392, 91, North and South Bolsa & Emmy casing gas. Notify Documentation Lead that activity is complete.	Gas Plant Operator
Tank Farm Operator to request Instrumentation Craftsmen to shutdown MCC building 1 thru 4 & B-Mat PLC. Instrumentation Craftsmen to notify Documentation Lead when activity is complete.	Instrument Craftsman
Tank Farm Operator to shutdown and secure Water Injection Plant #4	Tank Farm Operator
Gas Plant Operator is to shutdown and secure Stretford Unit Notify Documentation Lead when activity is complete.	Gas Plant Operator
Electrical Craftsmen to confirm with Tank Farm Operator that all production streams are shutdown and the processes are stabilized. At direction of the Tank Farm Operator the Electrical Craftsmen is to manually disconnect lease power supply. Notify Documentation Lead when activity is complete.	Electrical Craftsman
Tank Farm Operator to perform visual inspection throughout The Tank Farm area to ensure there are no releases.	Tank Farm Operator
Gas Plant Operator to start "back-up" Phone system generator , "back-up" generators to UPS at Tank Farm and "back – up" generator at DCU	Gas Plant Operator

CITY OF HUNTINGTON BEACH

2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

September 21, 2000

Mr. A. E. Mueller
Operating Vice President – Coastal Asset
AERA Energy LLC
20101 Golden West Street
Huntington Beach, CA 92648

Dear Mr. Mueller:

SUBJECT: AERA FACILITY - INTERRUPTION OF POWER SERVICE

On May 22, 2000, the California Independent System Operator ordered an interruption of power service to the AERA Facility. The power interruption lasted approximately two hours and was required due to an unusually high demand for electricity in the Southern California area.

The unexpected loss of power and the resulting sudden shutdown of the AERA Facility's equipment and systems resulted in temporary pressure surges in the Facility's fluid handling systems. The temporary pressure surges caused intermittent venting of hydrocarbon and hydrogen sulfide (H_2S) gases to the atmosphere. The upset condition resulted in odor complaint calls to the Huntington Beach Fire Department and claims of a potential harmful vapor release in the neighborhood.

The Fire Department was first notified of the event through several odor complaints received from the adjacent neighborhood. These complaints resulted in the discovery of the release by contacting AERA.

In an August 4, 2000 letter, AERA recommended interim corrective and mitigation measures; however, specific procedures suggested by the Fire Department still have not been resolved to our satisfaction. I would like to set up a meeting to discuss and finalize an acceptable action plan to address the following:

- AERA's methods, procedures, and assurances for immediate and accurate Fire Department notification of any unauthorized discharge. A specific performance standard for immediate notification would be five minutes or less. This immediate notification procedure should be in AERA's Release Reporting Policy, posted at the facility, and included in the training of new and existing employees.

- Provide a copy of AERA's written shutdown procedure for interruptible power events prior to our meeting.

- Methods and timing for AERA drills and simulated shutdown procedures, including Fire Department notifications and observation opportunities.

- Solutions for converting to uninterruptible power while a long-term, automatic operational and/or design adjustment can be incorporated into the Facility's fluid handling systems.

The Fire Department looks forward to continuing our positive working relationship with AERA in providing comments and recommendations to help facilitate a permanent resolution to site discharges.

If you have any questions, please call me at 714-536-5402.

Sincerely,

Michael P. Dolder
Fire Chief

MPD/DSO/cgs
s/fmt/olson/ron shenkman

c: Ron Shenkman, Consultant, AERA Energy LLC
Duane S. Olson, Division Chief/Fire Marshal

HUNTINGTON BEACH FIRE DEPARTMENT

2000 MAIN STREET, P. O. BOX 190
HUNTINGTON BEACH, CALIFORNIA 92648-2702

Facsimile Cover Sheet

To: RON SHENKMAN
Company: Rainbow Disposal
Phone: 714-847-3581
Fax: 714-841-4660

From: MICHAEL P. DOLDER, Fire Chief
Company: Huntington Beach Fire Department
Phone: 714-536-5402
Fax: 714-374-1551

Date: September 21, 2000
Pages including this cover page: 3

Comments: Ron, attached is a DRAFT of the letter to AERA. Please review and make comments as needed. Please call my Administrative Assistant Carolyn at 536-5402 with any changes you feel should be made. THANK YOU.

DRAFT

September 21, 2000

Mr. A. E. Mueller
Operating Vice President – Coastal Asset
AERA Energy LLC
20101 Golden West Street
Huntington Beach, CA 92648

Dear Mr. Mueller:

SUBJECT: AERA FACILITY - INTERRUPTION OF POWER SERVICE

On May 22, 2000, the California Independent System Operator ordered an interruption of power service to the AERA Facility. The power interruption lasted approximately two hours and was required due to an unusually high demand for electricity in the Southern California area.

The unexpected loss of power and the resulting sudden shutdown of the AERA Facility's equipment and systems resulted in temporary pressure surges in the Facility's fluid handling systems. The temporary pressure surges caused intermittent venting of hydrocarbon and hydrogen sulfide (H_2S) gases to the atmosphere. The upset condition resulted in odor complaint calls to the Huntington Beach Fire Department and claims of a potential harmful vapor release in the neighborhood.

The Fire Department was first notified of the event through several odor complaints received from the adjacent neighborhood. These complaints resulted in the discovery of the release by contacting AERA.

In an August 4, 2000 letter, AERA recommended interim corrective and mitigation measures; however, specific procedures suggested by the Fire Department still have not been resolved to our satisfaction. I would like to set up a meeting to discuss and finalize an acceptable action plan to address the following:

- AERA's methods, procedures, and assurances for immediate and accurate Fire Department notification of any unauthorized discharge. A specific performance standard for immediate notification would be five minutes or less. This immediate notification procedure should be in AERA's Release Reporting Policy, posted at the facility, and included in the training of new and existing employees.

- Provide a copy of AERA's written shutdown procedure for interruptible power events prior to our meeting.

DRAFT

- Methods and timing for AERA drills and simulated shutdown procedures, including Fire Department notifications and observation opportunities.

- Solutions for converting to uninterruptible power while a long-term, automatic operational and/or design adjustment can be incorporated into the Facility's fluid handling systems.

The Fire Department looks forward to continuing our positive working relationship with AERA in providing comments and recommendations to help facilitate a permanent resolution to site discharges.

If you have any questions, please call me at 714-536-5402.

Sincerely,

Michael P. Dolder
Fire Chief

MPD/DSO/cgs
s/fmt/olson/ron shenkman

c: Ron Shenkman, Vice President, Rainbow Disposal
Duane S. Olson, Division Chief/Fire Marshal

AERA

August 4, 2000

Duane S. Olson, Fire Marshall
City of Huntington Beach Fire Department - Fire Protection Division
Fire Administrative Office
2000 Main Street
Huntington Beach, CA 92648

SUBJECT: RELEASE OF MAY 22, 2000
AERA ENERGY LLC FACILITY
20101 GOLDENWEST STREET, HUNTINGTON BEACH

Dear Mr. Olson,

Thank you for meeting with us on July 25th. I believe that we now have a much better understanding of your concerns. As we stated in the meeting, Aera is committed to work with you, the California State Lands Commission, and other agencies as appropriate to expeditiously address concerns that may exist regarding operations at our Huntington Beach facility. The following information addresses the specific concerns discussed in the July 25th meeting.

I. May 22 Release Event

Composition of Released Gas: Attachments A-1 and A-2 are analytical results displaying the composition of two hydrocarbon gas streams in our facility that we believe are representative of the gas released to atmosphere during the subject event. Attachment A-1 is the analysis of a gas sample from free water knock-out (FWKO) vessel 111, one of the three FWKO vessels that released gas to the atmospheric relief system on May 22. Attachment A-2 is the analysis of a gas sample taken at a point where the gas streams from all seven of the facility's FWKO vessels are combined with gas from the facility's tank vapor recovery system. The analyses show that the compositions of these two streams are similar.

On May 24, gas from each of the three FWKO vessels that contributed to the release was sampled with the use of Sensidyne tubes to determine approximate H2S concentrations. The results were:

FWKO 111: 700 ppmv
FWKO 114: 250 ppmv
FWKO 115: 30 ppmv

RECEIVED
AUG 0 4 2000
FIRE DEPARTMENT

Volume of Gas Released: We have estimated the volume of gas that was released by conducting a material balance calculation on the systems involved. For each of the three FWKO vessels involved, we calculated the volumes of gas and liquid phases present in the vessels and the associated upstream gathering and well systems at the time power was lost (which closed the outlet valves on the FWKO vessels). Using these volumes and the average system pressures at the time power was lost, we then calculated the volume of gas that would need to be expelled to allow each system to equalize at the set pressure of the vessels' relief valves (60 psig). The results of this calculation were:

FWKO 111: 1300 scf
FWKO 114: 1300 scf
FWKO 115: 7600 scf

Total: 10,200 scf

Amount of H2S Released: Given the above release volumes and H2S concentrations, the amount of H2S released was calculated to be:

FWKO 111: 0.08 lbs
FWKO 114: 0.03 lbs
FWKO 115: 0.02 lbs.

Total: 0.13 lbs (the Federal Reportable Quantity for H2S is 100 lbs)

Dispersion Modeling: Using the estimated release volumes, the measured H2S data, and meteorological data for May 22 obtained from the National Weather Service, a vapor cloud dispersion modeling program (DNV Technica's PHAST Software) was utilized to assess the potential threat to public health and safety as a result of exposure to H2S. A summary of the modeling is included as Attachment B. Cases were run for releases from each vessel individually (Graphs 1, 2, and 3) and for a joint plume resulting from a simultaneous release from all three vessels (Graphs 4). Additionally, each of these cases were run for two different release volume scenarios; the August 3 report used the release volumes noted above and the July 26 report used higher volumes. The modeling results show that, in the joint plume scenarios (Graphs 4), the odor threshold for H2S (.0094 ppmv) would not have been exceeded beyond 55 feet downwind of the release point and the Emergency Response Planning Guideline (0.1 ppmv) would not have resulted more than ten feet downwind of the release point. The facility fence line is approximately 300 feet from the release point at its closest point and the nearest existing residence is approximately 1500 feet from the release point.

These dispersion modeling results point to a conclusion that there was not a threat to public health and safety related to the presence of H2S in the May 22 release. However, it does not allow any conclusion to be drawn regarding the potential for hydrocarbon odors to have migrated beyond the fence line. We will do additional dispersion modeling to investigate this possibility.

II. Interim Corrective Action / Mitigation Measures

Our interim corrective actions in response to the May 22 event are comprised of increased electrical system monitoring and changes to facility operating procedures, including:

1) increased monitoring of electrical grid system status,
2) ensuring redundancy in the systems providing us with advance warning of approaching service interruption requests, and
3) modifying and testing our procedures of shutting down the facility in a short time frame while minimizing the potential for releases. These procedures now also include shutting down wells driven by IC engines, and high water cut wells as necessary, during the Stage 1 alert (prior to receiving the 30 minute notification to shut down).

Attachment C provides a summary of the monitoring process we are currently using and the corresponding actions we take as dictated by the system status as determined by the monitoring. Since our meeting on the 25th, we have had occasion to implement these procedures on three separate occasions when service interruption requests have been initiated. This occurred on the afternoons of July 31st, August 1st, and August 2nd. In all three instances, we successfully shut down all facility systems and wells within the thirty minute notification window while preventing any detectable release of gas from our systems and equipment.

We are also evaluating additional facility modifications to further decrease the potential for releases of gas or any other potentially adverse impacts that could result from any loss of electrical service to our facility. We will advise you on the status of this effort in approximately one month.

III. Training and Drills

Release Reporting: Aera is committed to provide frequent training to ensure that all employees understand our release reporting procedures. Attachment D is a flow chart depicting those procedures. It has been our practice to provide this training on an informal basis during morning meetings and occasionally during monthly safety meetings, both attended by all on-duty employees. We will continue this practice and also create a call-up to ensure that no more than three months pass without refresher training. The failure that occurred in our internal reporting process during the May 22 event has been addressed directly with the individual involved and with all employees in morning meetings.

Our employees are trained to immediately (after taking appropriate safe action to stop or control the release) notify a supervisor or an Environmental, Health and Safety (EHS) Field Advisor when a release of any kind is discovered. The supervisor or EHS Field Advisor will then ensure that appropriate external and additional internal company notifications are made. The supervisory representative for the Huntington Beach facility

will typically be the Process Supervisor; Tony DeVito currently holds this position. The facility has two on-site EHS Field Advisors; Milan Steube and Sue Gonzales currently hold these positions. All three of these people, as well as several other on site exempt staff / supervisory personnel are trained in external release reporting procedures, have ready access to emergency response plans and guidance documents, and are available around the clock via pagers or home phone numbers. In addition, other Aera EHS personnel who are experts in release reporting and emergency response are readily available via telephone or pager at other Aera field locations in California or Aera's headquarters office in Bakersfield. Contact names and numbers for all of the above personnel are available on Emergency phone lists posted at key locations in the facility, in emergency response plan documents, and on Aera's Intranet and E-mail systems.

Our employees are also trained to bypass the internal reporting process and call "911" directly if they are confronted with a situation that poses an immediate significant threat to life, health, property, or the environment.

Regarding external reporting of release events, Aera will ensure that your agency receives timely and accurate notification of any unauthorized discharge from its facility in accordance with the Huntington Beach municipal code.

Shutdown Procedures:

As a result of the May 22 event, we have developed a written, step-by-step shutdown procedure for interruptible power events. It is based on a procedure previously used successfully for planned shutdowns, but required some modifications to specifically address the required 30 minute implementation period and the goal of preventing releases. Operating personnel participated in the development of this procedure and most of them now have first hand experience in implementing it. To further ensure we are prepared to effectively implement this procedure when needed in future years, we will conduct a simulated drill during the second quarter of each year (prior to peak electrical demand season).

For scheduled shutdown events, we will continue our historic practice of involving our operating personnel in developing event-specific written procedures which are then reviewed and discussed with employees as part of the planning for each event. Examples of this are a facility-wide maintenance shutdown that is normally scheduled at least once per year and other periodic planned shutdowns that usually affect only portions of the facility.

IV. Interruptible Power Contracts.

We are forwarding copies of our contracts with SCE to our legal department for review and determination of the feasibility of converting to a non-interruptible service contract for our facility.

CLOSING

We will continue to communicate with you as additional information becomes available. In the meantime, please feel free to contact me at (805) 648-8201 or any of the Aera staff members at the Huntington Beach facility any time you have specific questions or concerns.

Again, thank you for meeting with us on July 25th. I look forward to open communications with you and your agency as Aera continues to improve its facility and operations at its Huntington Beach facility.

Sincerely,

A. E. Mueller
Operating Vice President – Coastal Asset

Attachments

Cc: (w/Attachments)
Mr. Tim Greaves, Deputy Fire Marshall, City of Huntington Beach Fire Department

ATTACHMENT A-1

Aera Energy LLC
Analytical Report

Date Analyzed: 04/10/2000 2:01 PM

Sample Name: **Emmy Knock Out #9**

Total BTU cu/ft^3 (Dry std): 1240.9
Total BTU cu/ft^3 (Wet std): 1219.2

Specific Gravity: 0.8484

Natural Gas Report

Component Name	MOL %	gal / MCF
Oxygen	0.162	
Nitrogen	0.810	
Carbon Dioxide	8.338	
Methane	74.802	
Ethane	2.877	
Propane	5.060	1.397
I-Butane	1.419	0.465
N-Butane	2.574	0.813
I-Pentane	0.898	0.329
N-Pentane	0.592	0.214
C6+	2.468	1.015
SUM (Total):	100.000	4.233
SUM (C_4 +) :		2.836
SUM (C_5 +) :		1.557

ND = None Detected

ATTACHMENT A-2

Aera Energy LLC
Analytical Report

Date Analyzed: 04/10/2000 11:35 AM

Sample Name: **Tank Farm 1 Master #2**

Total BTU cu/ft^3 (Dry std): 1136.7
Total BTU cu/ft^3 (Wet std): 1116.8

Specific Gravity: 0.7973

Natural Gas Report

Component Name	MOL %	gal / MCF
Oxygen	0.207	
Nitrogen	1.091	
Carbon Dioxide	9.117	
Methane	78.439	
Ethane	2.055	
Propane	3.319	0.916
I-Butane	0.984	0.323
N-Butane	1.792	0.566
I-Pentane	0.648	0.237
N-Pentane	0.473	0.171
C6+	1.875	0.771
SUM (Total):	100.000	2.984
SUM (C_4 +):		2.068
SUM (C_5 +):		1.179

ND = None Detected

CITY OF HUNTINGTON BEACH

INTER-DEPARTMENT COMMUNICATION

To: Tim Greaves, Deputy Fire Marshal

From: William T. Hosband, HazMat Program Manager WTH

Date: July 11, 2000

SUBJECT: "AERA ENGERGY" OIL SPILL OF JULY 5, 2000

The following is a summary of what I have learned from an investigative interview with Susan Gonzales, EHS Field Advisor for AERA Energy LLC (L.A. Basin Operations) at AERA's Huntington Beach site at 20101 Golden West St. conducted on July 11, 2000.

The crude oil spill was reported by a contractor of AERA while on his routine inspection rounds of wells on un-incorporated Bolsa Chica Wetlands operated by AERA Energy LLC. At approximately 7:50 a.m. on the morning of July 5, 2000, a pool of oil was observed near the location of an operating well at the north end of AERA property.

Immediate investigation by AERA surveillance personnel and an AERA Supervisor determined the source to be an eight inch underground production pipeline that is fed from several producing wells in the area. The wells providing production to this pipeline were shutdown and isolation valves were closed. Notification was made to other AERA Supervision and in turn notifications were made to the California Office of Emergency Services (OES) and the National Response Center (NRC). OES notified the California Fish & Game Warden and the U.S. Coast Guard who responded. Also responding were the State Lands Commission and Division of Oil & Gas. A unified command was established with Fish & Game, Coast Guard and AERA personnel.

Initial estimates of the production pipeline leak volume was an estimated 5 barrels of crude oil and 10 barrels of produced water, which spilled into a dry creek just opposite a wet cell and separated by a bridged road. The oil/water combination contaminated an area of approximately 45' X 60' which included some pickleweed which supports several endangered species of wildlife. Efforts to contain the spill and minimize the threat to flora and fauna were implemented by AERA's spill response contractor, Advance Cleanup Technology Inc., under the direction of the California State Department of Fish and Game and AERA Supervisors. Some of the activities included washing down of the pickleweed and evacuation of the oil/water mixture by as many as three vacuum trucks working under contract to AERA.

There were no injuries reported. This incident is under investigation. There were no activities occurring above ground in the area around the line break. The area was monitored for "lower explosive level (LEL), hydrogen sulfide (H2S) and Oxygen (O2) continuously to ensure safe clean-up operations. Levels were constant at 0% LEL, 0 ppm H2S and 20.9% O2. Biologists from Fish & Game requested that netting be placed over contaminated soils to keep wildlife away from harm until all contaminated soils were removed.

The question of Administering Agency Notification requirements has been discussed with AERA Energy personnel and a posed to the Orange County Fire Authority, because the spill occurred on unincorporated Orange County property rather than Huntington Beach City

property. It was agreed by all agencies polled, that notification to the Administering Agency could be either to Huntington Beach Fire or the Orange County Fire Authority and be in compliance with reporting regulations. The notification should, however, be immediate and follow AERA Energy Business and Emergency Plan guidelines.

Attached are pages of existing guidelines that contain information for emergency notification related to spills and releases. It is my recommendation that these guidelines spell out more specifically the agencies to be notified and include the 24-hour telephone numbers for each in the order of call preference. The Orange County Fire Authority representative recommends that **911** be used to notify the Administering Agency as required by AB2185/2187. The telephone number presently listed in the agency list (536-5411) is the general telephone number for Fire Administration but is answered after-hours by a Metro Net Dispatch telephone tree.

Continued open communications between AERA Energy and the Huntington Beach Fire Department will help resolve any notification or response issues that may arise and I encourage a commitment by both parties to maintain those communications at all costs. Thank you.

C: Duane Olson, Division Chief

AERA	PLATFORM EMMY & HUNTINGTON BEACH HUNTINGTON BEACH PRODUCTION UNIT BUSINESS EMERGENCY PLAN

OVERVIEW

The Huntington Beach production unit is manned 24 hours per day, 7 days per week. During this time all facilities are checked for leaks or operational failures. All personnel are equipped with a two-way radio to communicate immediately any potential or occurring problems that may arise.

Once field personnel discover a spill, they will immediately notify an Aera supervisor. The supervisor will obtain the Material Safety Data Sheet for the material in question. After assessing the amount of the spill and significance of endangerment to personnel, public and the environment, the supervisor will notify any Emergency Response Personnel and all other agencies required to be notified.

The supervisor or a delegate will meet the emergency response personnel at the property entrance and lead them to the incident site. Also, at this time the supervisor will provide them with any information required, such as possible hazards that may be present.

If it becomes necessary to evacuate personnel from a field location the field supervisor will contact personnel via radio. All contract personnel will be contacted in person and lead off lease or to a designated safe area.

If evacuation affects the general public or it appears that it may threaten any residential area, the Supervisor will request assistance from local fire and sheriff agencies.

A personnel count will be made with corresponding duty roster for the day to ensure that all people are accounted for.

1.1 Notification

The person in charge of the facility or appointed delegate must report the release to the National Response Center *as soon* as they have knowledge of a release of a "reportable quantity" of a hazardous material. The fact that the facility is in the midst of an emergency response action cannot delay the notification. The Response Center will ask questions regarding response actions and record pertinent information. It will relay that information to a regional on-scene coordinator already designated by the EPA or to the U.S. Coast Guard. The coordinator will evaluate the circumstances and involve appropriate state and federal agencies.

1.2 Releases into the Environment

Any release that is not wholly contained within buildings or structures is reportable, even if it remains on the plant or installation grounds. Examples include evaporation of a reportable quantity into the air from a spill within a dike or to a concrete pad, or leaks of a reportable quantity from a tank, pipeline or process unit into the ground. "Environment" includes any navigable water, surface water, ground water, drinking water supply, land surface, subsurface strata or ambient air within or under the jurisdiction of the United States.

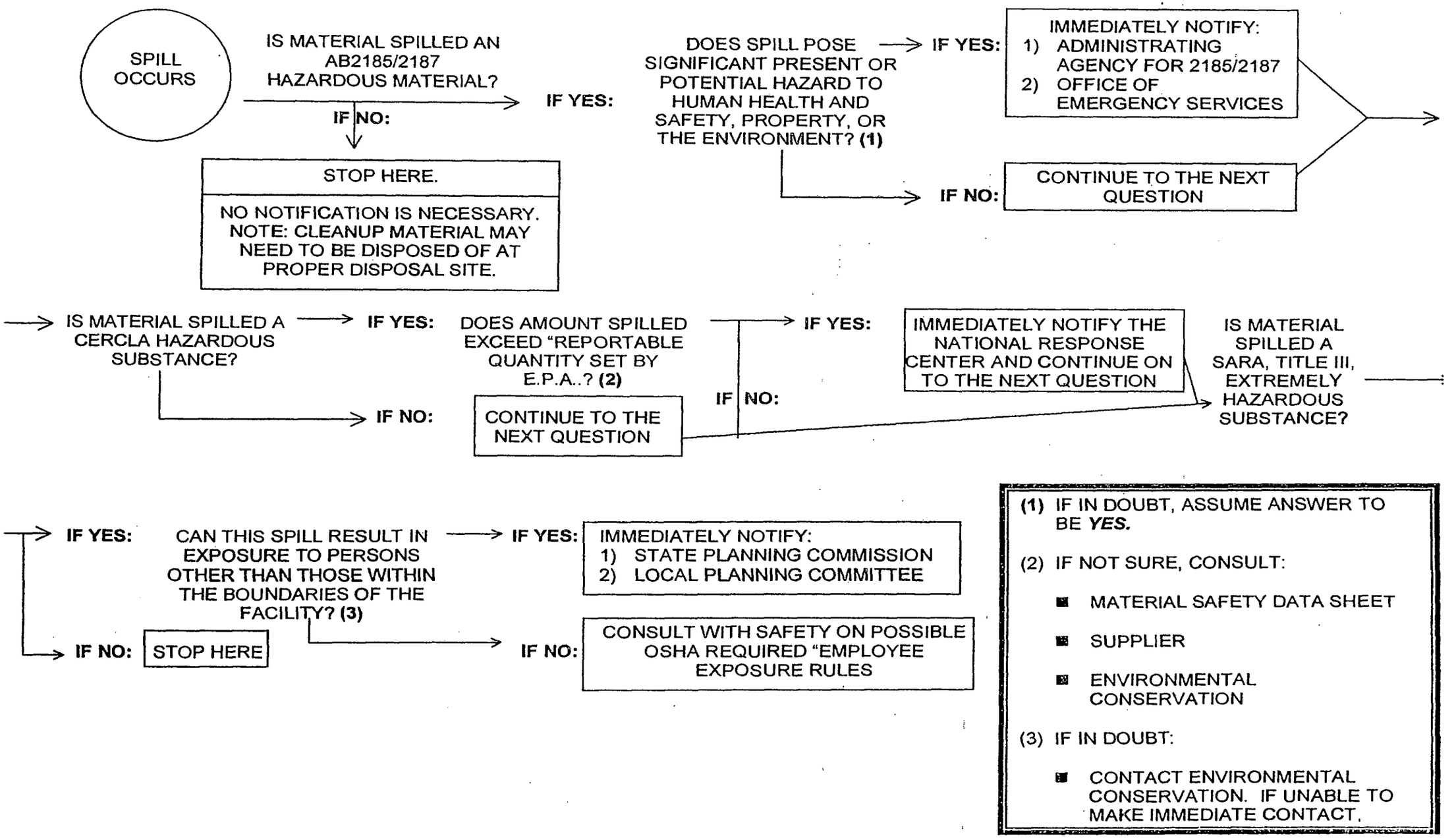
1.3 Reportable Quantity Amounts

EPA has identified the Reportable Quantity for over 600 chemicals in its April 4, 1985. This Reportable Quantity (RQ) refers to the amount of a material at which a spilled or released hazardous substance must be reported. The amount doesn't have to be spilled all at once; if the RQ is spilled in any 24 hour period it must be reported. All SWEPI locations should maintain their Hazardous Material list and update their Reportable Quantities inventories on a regular basis. These vary from 1 pound to over 10,000 pounds.

2.0 AGENCY PHONE LIST

AGENCY	PHONE	REQUIRED BY
Office of Emergency Services (OES)	(800) 852-7550	AB2185/2187
Administrating Agency of AB2185 Huntington Beach Fire Department	(714) 536-5411 911	AB2185/2187
National Response Center (NRC)	(800) 424-8802	CERCLA
State Emergency Planning Commission	Use OES # until further notice	SARA, Title III
Local Emergency Planning Commission	Use OES # until further notice	SARA, Title III
California Regional Water Quality Control Board (RWQCB) Santa Ana Region	(909) 782-4130	AB3506 (1986)
State Lands Commission		Local agreement
Huntington Beach Division	(714) 536-3018	
Long Beach Division	(562) 5905201	
Division of Oil and Gas (DOG)	(562) 590-5311	Local agreement
Department of Fish and Game		Local agreement
Monday - Friday, 8 a.m. to 4 p.m.	(562) 5905132	
Weekends and nights (dispatch)	(916) 445-0045	

DECISION TREE FOR EMERGENCY NOTIFICATION OF CHEMICAL SPILLS



(1) IF IN DOUBT, ASSUME ANSWER TO BE ***YES.***

(2) IF NOT SURE, CONSULT:

- MATERIAL SAFETY DATA SHEET
- SUPPLIER
- ENVIRONMENTAL CONSERVATION

(3) IF IN DOUBT:

- CONTACT ENVIRONMENTAL CONSERVATION. IF UNABLE TO MAKE IMMEDIATE CONTACT,

CITY OF HUNTINGTON BEACH

2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

June 29, 2000

Aera Energy LLC
20101 Goldenwest Street
Huntington Beach, CA 92648

RE: MAY 22, 2000 HYDROCARBON VENTING AT FACILITY #104017

After reviewing the report regarding equipment breakdown prepared by Aera's Environmental Manager, Milan Steube, the Fire Department has determined that the incident was preventable while posing a potential threat to human health and significant liability to Aera Energy. Based on Aera's May 30, 2000 letter, the current status of "interruptible" electrical power consumer was the major cause. Additionally, this status may violate the agreements made under the conditional use permit granted for the site's operation.

Although mitigation measures were identified in the May 30, 2000 report, the Huntington Beach Fire Department finds these measurers insufficient to adequately safeguard the community from a potentially harmful chemical release. Aera's follow-up plan to prevent a recurrence is unacceptable. Area's current procedures for handling interruptible power at the Huntington Beach facility are not adequate and will require correctional measures.

We recommend a meeting between Aera and our Fire Department staff to discuss corrective actions to your proposed mitigation measures. Please contact Deputy Fire Marshal Tim Greaves or myself at 714 374-5379 to schedule a meeting.

Sincerely,

Duane S. Olson
Fire Marshal

TLG\DSO\bjg

C: Michael P. Dolder, Fire Chief
Paul Mount II, P.E., State Lands Commission
Tim Greaves, Deputy Fire Marshal

7/6/00
Met & discussed the issue with Ron Sherman

Aera Energy LLC – Huntington Beach Facility
Gas Release Event of May 22, 2000

Pressure Release of Vessels.

Summary of Follow-Up Actions Taken or Being Taken

1. Improved State of Readiness for Future Power Interruptions

a. We are now monitoring Southern California Edison's web site to get earlier warning (i.e., several hours) of <u>possible</u> power interruptions. This will allow adjustments to be made to plant process equipment that will help minimize the likelihood of a gas release if a power interruption should occur.

b. We have arranged for our Plant Operator to automatically receive a page from Southern California Edison prior to a pending power interruption. This will occur thirty minutes prior to the actual interruption and will facilitate any additional adjustments that can be made to plant process equipment to minimize the likelihood of a gas release when the power is actually interrupted (may include voluntarily shutting down selected equipment <u>prior</u> to the actual loss of power).

Midnight.

Ammonia Safety Spill - 1995 CAL Resources 1997 - Aera

2. Operational / Design Adjustments.

a. Reviewed gas release reporting requirements with personnel.

b. Reviewed / updated facility shutdown procedures with personnel.

c. An engineering review of current facility design and operation is being conducted that may identify opportunities for additional improvements.

3. Equipment Inspection & Repair.

a. Replaced electrical breaker that did not operate properly (i.e., did not shut down certain equipment) during May 22 event.

b. During the two weeks following the May 22 event, a third party inspection service conducted a thorough inspection of the entire facility. Several vapor leaks were identified and repaired.

c. Another facility inspection by this third party will be conducted in July and on at least a quarterly basis in the future.

d. A thorough review of the operation of the facility's vapor recovery system is being scheduled. This is a "fine-tuning" effort to further minimize the likelihood of vapor leaks from facility tanks and pressure vessels.

AERA

May 30, 2000

Assistant Deputy Executive Officer
Stationary Source Compliance / Major Source
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Dear Sir or Madam,

SUBJECT: REPORT OF EQUIPMENT BREAKDOWN – MAY 22, 2000
AERA ENERGY LLC – HUNTINGTON BEACH FACILITY (#104017)
ELECTRICAL FAILURE

Pursuant to the requirements of SCAQMD Rule 430, this is Aera's written follow-up report for the subject breakdown.

At approximately 2:45 p.m. on May 22, 2000, the California Independent System Operator ordered an interruption of power service to various "interruptible" customers. The interruption, which lasted about two hours, was required due to unusually high demand for electricity in the Southern California area and resulted in a sudden unexpected shutdown of the subject facility. Power was restored at approximately 4:45 p.m. and the facility was gradually returned to normal operation over the next few hours.

The unexpected loss of power and the resulting sudden shut down of facility equipment and systems resulted in temporary pressure surges in the facility's fluid handling systems. These temporary pressure surges caused intermittent venting of hydrocarbon gas to atmosphere via the emergency relief vent system on three of the facility's seven free water knock-out vessels (specifically, Devices 6, 7, and 8). Although the emergency relief system on these vessels operated exactly as designed, this condition is a violation of Condition E-4 of the Facility Permit, which requires air pollution control equipment (i.e., the facility's gas processing and vapor recovery systems) to be "in full use".

Aera Energy LLC • 20101 Golden West Street • Huntington Beach, CA 92648 • (714) 969-3200 • Fax (714) 969-3364

An Aera operating employee observed the intermittent venting, but was not aware of the requirements to immediately report it. Milan Steube, Aera's Environmental Advisor, notified AQMD (1-800-CUT-SMOG; Evelyn) immediately upon learning of the relief event. Unfortunately, this did not occur until the following day (May 23). As Mr. Steube discussed with the District's Mr. Owen Amayo on May 25, reporting requirements have been reinforced with all facility employees as part of Aera's follow up to this event.

what occurred what was it. Method in Place

The intermittent venting occurred over a period of approximately one hour following the loss of power to the facility (i.e., from 2:45 p.m. to 3:45 p.m.). Since the flow rate and exact duration of each intermittent relief event could not be measured or recorded, estimation of the amount of hydrocarbon emissions is highly speculative, but estimated to have been approximately 500 pounds of VOC's.

In an attempt to prevent recurrence of this event, Aera's follow up plan is to conduct a thorough re-examination of:

(1) the manner in which the facility receives warning of a pending power interruption, and
(2) what operational and / or design adjustments might be made to avoid conditions that lead to atmospheric venting when power interruptions do occur (or are anticipated).

Please contact Milan Steube at (714) 969-3234 or at the letterhead address if you require any further information.

Sincerely,

for

W. A. Morris
Manager of Operations - L.A. Basin

- SEQUENCE of events
what occurred
what was it
Quantities release
Was it reported
Why we weren't notified
- Forced investigation

Review/~~AMEND~~ACTIONS
~~ARE~~ IN FUTURE
TO MIGRATE/
Preference to eliminate
~~FUTURE~~ PRE/POST
pressure discharge

AERA Fax

Date: May 31, 2001

Number of Pages Including Cover Sheet 3

To: Chief Duane S. Olson
Huntington Beach Fire Dept.

Phone: (714) 536-5402
Fax: (714) 374-1551

From: Milan Steube
Aera Energy LLC
20101 Goldenwest St.
Huntington Beach, CA 92648
Dept: Environmental
Phone: (714) 969-3234
Fax: (714) 969-3364

REMARKS: ☐ FYI ☐ Urgent ☒ Per Your Request ☐ Reply ASAP ☐ Please Comment

Chief Olson:

Willie Morris asked me to provide you with information regarding the portions of Aera's facility area that are within City and County jurisdictions. Attached to this fax please find the following two items that depict the City / County boundary (shaded line) in the vicinity of our facility:

1) District Zoning Map "DM 4Z".
2) A portion of the USGS Seal Beach Quadrangle Map.

Although neither map shows the extension of Seapoint Drive to Pacific Coast Highway (we have drawn in the approximate location on the Zoning Map), it appears that ***all Aera wells and facilities south of Seapoint are within City jurisdiction and all Aera wells and facilities north of Seapoint are in County jurisdiction***.

Please feel free to call either Willie at 969-3533 or me at 969-3234 if you require any further information.

Regards,

ZONING

DM 4Z

ECTIONAL DISTRICT MAP • 4-6-11 & 5-6-11

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

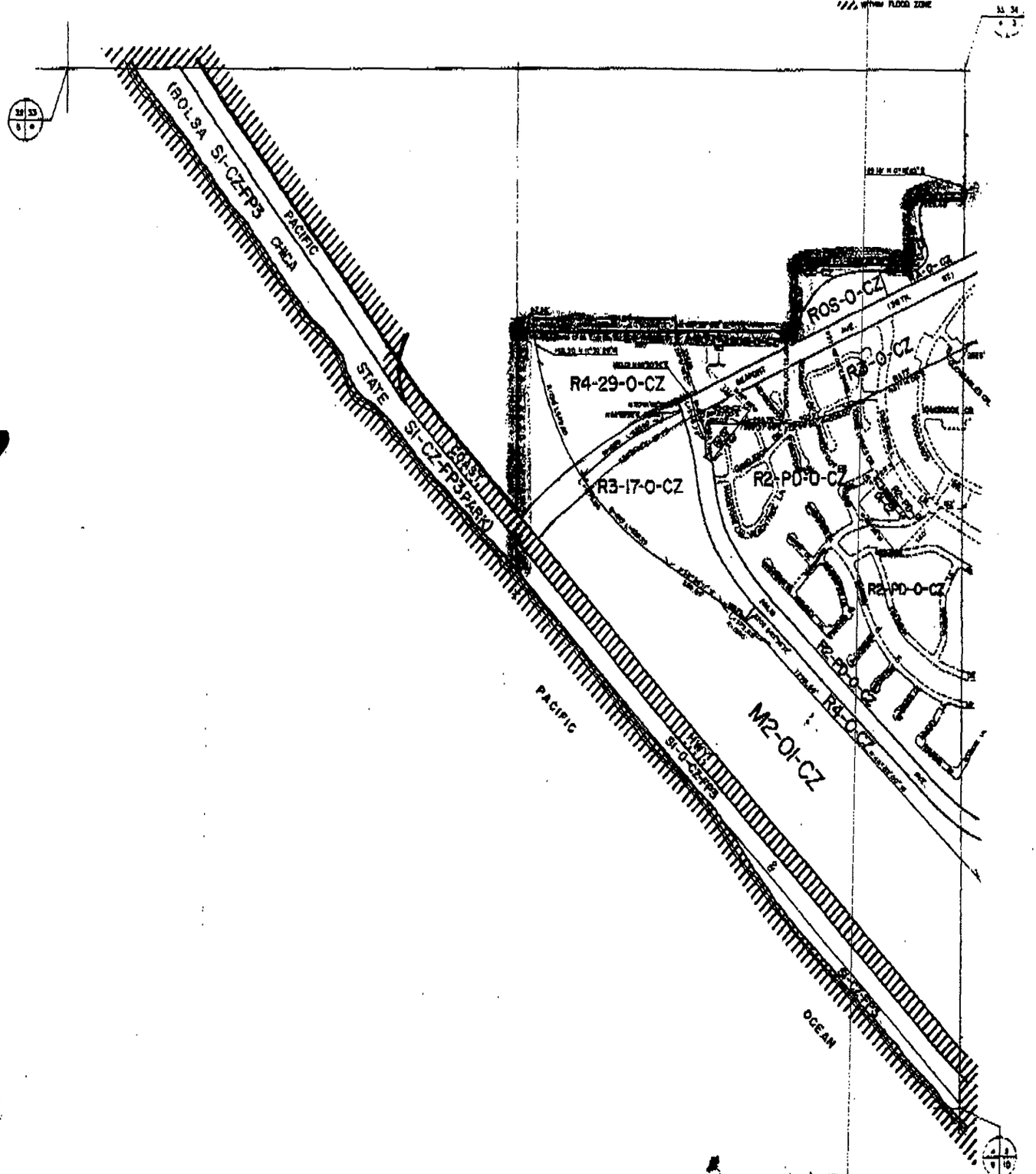
ADOPTED MARCH 7, 1960

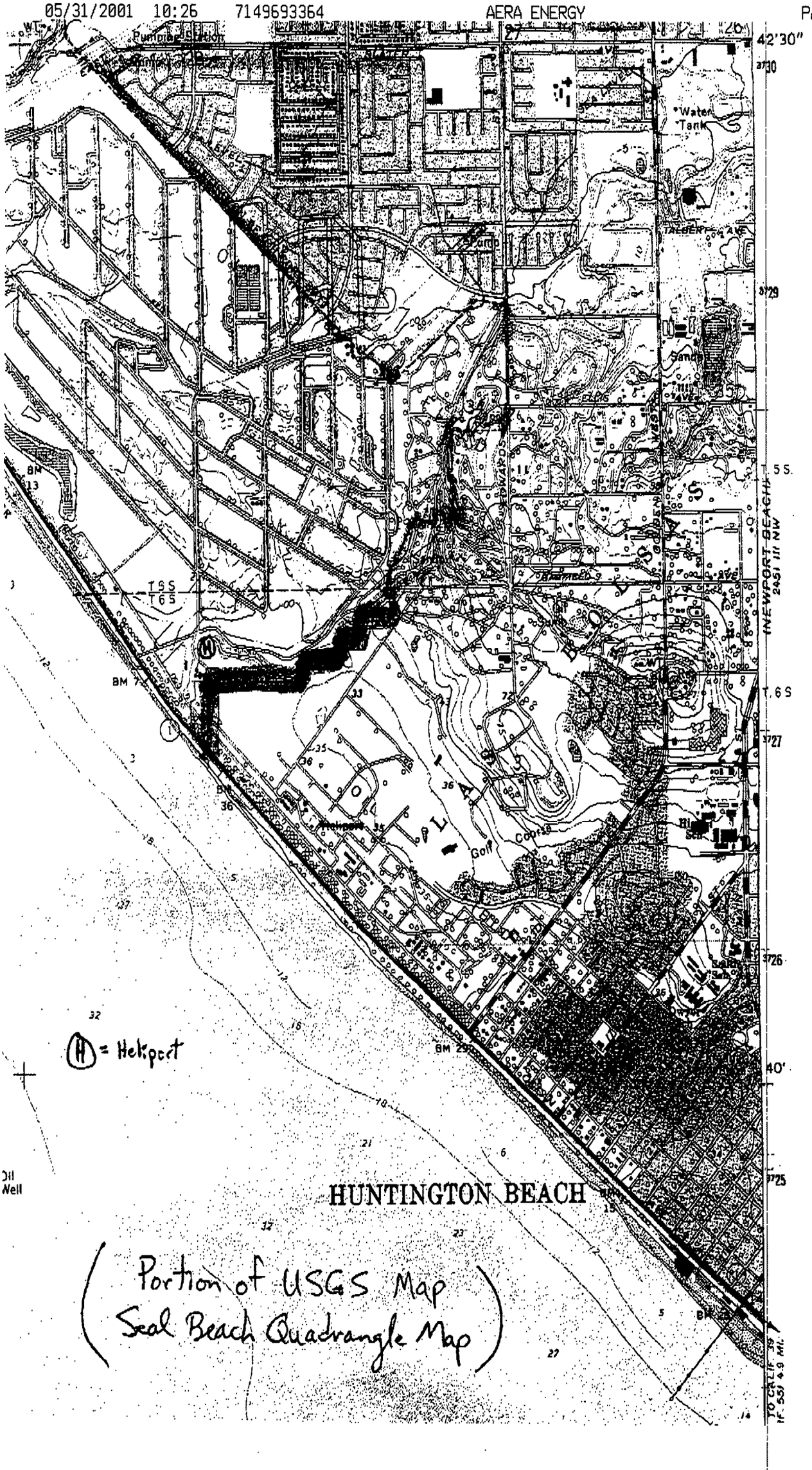
CITY COUNCIL ORDINANCE NO. 754

AMENDED	ZONE CASE	ORD. NO.	AMENDED	ZONE CASE	ORD. NO.
12-3-62	281,282	938			
3-22-65	545	1186			
10-19-70	70-10	1806			
7-2-73	72-36	1855			
5-4-81	80-6	2442			
1-18-82	81-14	2534			
2-22-83	82-20	2609			
9-19-83	PP83-1	2643			
7-2-84	84-7	2706			
1-17-89	FLOOD ZONE	2809			

NOTE:
ALL DIMENSIONS ARE IN FEET
ANY ZONE BOUNDARIES ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY.

LEGEND:
- IND. INDUSTRIAL DISTRICT
- RM MEDIUM DENSITY RESIDENTIAL DISTRICT
- RH MEDIUM-HIGH DENSITY RESIDENTIAL DISTRICT
- RHD HIGH DENSITY RESIDENTIAL DISTRICT
- CN NEIGHBORHOOD COMMERCIAL DISTRICT
- RA RESIDENTIAL AGRICULTURAL DISTRICT
- OS RECREATIONAL OPEN SPACE DISTRICT
- WATERLINE DISTRICT
- CZ COASTAL ZONE SUFFIX
- CC COASTAL CONSERVATION DISTRICT
- PD PLANNED DEVELOPMENT
- O CONSERVATION OIL PRODUCTION DISTRICT
- CONSERVATION OIL PRODUCTION DISTRICT
- CONSERVATION OIL PRODUCTION DISTRICT
- FP3 FLOODPLAIN DISTRICT
- WITHIN FLOOD ZONE





(Portion of USGS Map
Seal Beach Quadrangle Map)

CITY OF HUNTINGTON BEACH
INTER-DEPARTMENT COMMUNICATION

To: Paul D'Alessandro, Deputy City Attorney

From: Michael P. Dolder, Fire Chief

Date: May 9, 2000

SUBJECT: CLIFFORD NOLAN INQUIRY – AERA ENERGY PIPE LINE OIL SPILL

This incident occurred from November 1 to November 16, 1999, when Aera Energy attempted to clean a 12" oil production pipeline that runs from oil production platform Eureka to platform Elly in federal waters approximately nine miles offshore. Elly is a processing platform and other platforms ship to it for oil, water, and gas separation prior to onshore delivery. Aera was cleaning the pipeline because there were several issues with platform Eureka that caused it to be shutdown in June 1999.

The leakage was described as a light sheen on the water that was absorbed with floating booms or was light enough to evaporate before any cleanup could happen. Some small tarballs were created and reported contained within cleaning operations. Amounts less than one gallon were picked up at the Huntington Beach Pier and less than five gallons at Crystal Cove in Laguna Beach. The Department of Fish and Game reported two cormorants and four western seagulls fouled with oil at platform Elly, but all birds flew away.

The cleaning operation and subsequent leaking lasted for approximately two weeks. The pipeline is currently filled with seawater and is considered clean and idle.

Specific and detailed reporting was remanded to the U.S. Department of the Interior, Minerals Management Service, 805-389-7775, reporting number NRC 503881. Additional reports were filed with the Office of Emergency Services at 800-852-7750, control number 99-4823.

If you have any further questions, please contact my office.

MPD/DSO/sg
c: Duane S. Olson, Fire Marshal
Tim Greaves, Deputy Fire Marshal/Petro-Chem

s:fmt/olson/aera oil spill

Hunt Research Corporation

JAMES W. HUNT, President

February 9, 1994

Captain Hubert
New Development Section
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648
FAX (714) 374-1551

In Re: SWEPI Approval Status

Dear Howard:

This is to follow-up on our meeting with SWEPI on 2/7/94, which was held to discuss the firewater piping system and the status of Fire Department approvals:

1. **Firewater Piping:**

   a. Firewater drawings were marked up with needed corrections by Fire Department. Shell agreed with the corrections. Fire Department will give Shell a stamped copy subject to corrections, review of submittals and calculations for foam system, water spray systems, fire pump system. Approval to be also subject to onsite inspection and test, and subject to provision of adequately configured quadrameses so 2,500 GPM can be supplied by pumpers.

   b. Fire Department required a minimum main size of 8" (laterals to individual hydrant or monitor can be 6"). Shell requested variance on line to Stretford unit if adequate flow at approved velocities can be demonstrated. All other mains should be at least 8".

   c. Fire Department should require written request from Shell for the variance from the NFPA #24 depth of bury requirement, as it is a departure from a standard.

2. **Approval Status:**

   (This section reflects the status of submittals as of 2/7/94.)

   Note: Where "FPP" is shown, it refers to the Fire Protection Plan; revision 2, dated 6/11/91.

POST OFFICE BOX 291 • SOLVANG, CALIFORNIA 93464
PHONE: (805) 688-4625 • FAX: (805) 688-0275

A. Summary of plans which could be approved now:

Plan	Subject To
1. **Water System Piping Drawings (Sec. 5.1 of Fire Protection Plan - FPP)**	• Subject to notes made on drawings 2/7/94 • Vendor cut sheets regarding monitors, hydrants, valves, PIV • Review of detailed submittals for water spray, foam system and pump system • Subject to adequately configured quadrameses • Show hose reels on plan (per Sec. 5.1.3 of FPP) • Subject to letter from SWEPI requesting variance for depth of bury • Subject to on-site inspection and test
2. **Toxic & flammable dispersion modeling; done by Arthur D. Little & submitted by SWEPI (Sec. 4.2 of Fire Protection Plan)**	None.
3. **Access roads (Sec. 13 of FPP)**	Field inspection prior to startup
4. **Offsite monitoring and protection of public (Sec. 14 of FPP)**	Subject to review of Hazops which was requested 2/8/94
5. **Location & separation of equipment (Sec. 15 of FPP)**	Field inspect crash posts prior to startup

B. **Issues which can be deferred until on site inspections prior to startup:**

1. Hazmat list (FPP Sec. 4.3) "Onsite list, knox box, etc.";
2. Fire suppression system; FPP Sec. 6 "Fire extinguishers and carts";
3. Emergency Response Plan (FPP Sec. 21);
4. Safety, maintenance, quality assurance plans (FPP Sec. 22);
5. Worker safety and training plans (FPP Sec. 23);
6. Hazard identification methods; "Labeling" (FPP Sec. 25);
7. HMMP (FPP Sec. 26);
8. Site security plan (FPP Sec. 24) Review this onsite;
9. Field inspect SCBA's, first aid equipment, safety equipment (FPP Sec 8.1.1);
10. Require Fire Department permits for abandonments and removals onsite (FPP Sec. 27);

C. Status of pending submittals which are unapprovable at this point as far as I can ascertain. (This section is based upon the submittals which I have observed. I have not seen some of the submittals of 2/7/94 and have not seen the 2/10/94 submittals.)

Title	Required Deliverables	Comments
Sec. 4.1 Hazops (Hazards & Operability Study)	Hazops Study	Copies not received by HBFD or myself. I requested copies 2/8/94. This document needs review.
Sec. 5.2 Firewater Pump	Vendor data, drawings and curve	Not approvable, until review of cutsheets, submittals, and pump curve are done. Must review to NFPA 20 requirements.
Sec. 6.0 Fire Suppression System; i.e. foam & water spray systems & calculations	Drawing/ cutsheets	Prior to startup issue: Not approvable at this time. Field inspect extinguisher and cart locations (prior to startup). Need submittals on water spray systems and foam system now.
Sec. 7. Gas, Fire Detection & Shutdowns	Vendor cutsheets, specs	Not approvable, at this time (incomplete submittal). Need mfg. cut sheets and need to see spatial locations, listings and approvals, battery backup, etc.
Sec. 8. Fire Protection Systems	Covered in paragraphs 5.1, 5.2, 6.0 & 7.0	(See previous comments)
Sec. 9. Electrical area classification	Drawing	Not received, therefore not approvable at this time.
Sec. 10. Fireproofing	Drawing, spec, cutsheets	Not approvable until reviewed. Need to review for compliance with U.L 1709 rapid high rise curve, and SWEPI fire protection plan.
Sec. 11. Critical Cable Protection	Cable in cable tray or conduit. Drawings and specs	Not approvable. Drawings not received as far as I know. Need to see drawings.
Sec. 12. Drainage & Containment	Drawing and spill volume calculation	Not approvable. Drawings not received as far as I know. Need to review for compliance with fire code. Need field inspection. Ant 80 + 79
Sec. 16. Equipment, System, & Process Safety, Monitoring & Shutdowns	Hazops	Unapprovable at this time. Hazops not received. Needs review.
Sec. 17. Emergency Relief Systems (for vessels/tanks)	Calculations per Uniform Fire Code; statement of compliance with appropriate standards	Not approvable at this time. Need to review these submittals. Need to see calculations for fire exposure per fire code requirements. Need information on rupture disk reliability/safety.

D. Miscellaneous Issues:

1. Fire Department required crash posts around the propane tank. This will need field inspection.
2. Quadramese needs enough 2 1/2" inlets @ 250 GPM each to provide 2500 GPM if the fire pump fails. This was required in lieu of having two redundant fire pumps. 2500 GPM requires ten inlets. This could be accomplished by provided at least 5 inlets on each quadramese, providing that both locations have hydrants which are connected to ample city water supply (I'm not sure about hydrant availability for the quadramese near Palm; this needs verification).
3. Fire Department needs to inspect existing control room and lab building for fire and life safety relative to exposure to risks of this project. This was agreed to by SWEPI (FPP Sec. 18).
4. Those fire hydrants not having monitors, should be the same as those used by the City. All new fire systems to be painted red (hydrants to be yellow).
5. Designer of system needs to be reminded to provide 100 PSI nozzle pressure at monitors. The 7/21/93 Fluor Daniel memo acknowledges this requirement
6. Fire Department needs one drawing which will show entire facility, roads, all fire protection systems, detectors, etc.
7. Submittals for alarm systems and detector systems need to include drawings to scale showing detector locations and distances to targets, vendor cutsheets, listing/approval references, and State Fire Marshal listing for any fire detectors. Detectors must be compatible as a system of components. Battery/UPS power needs review also.

E. Drawings received by HBFD on 2/7/94: (I have not been requested to review any of these)

078-91-048 A
078-91-048 E
078-91-048 H
078-91-048 J
078-91-048 K
078-91-048 L
078-91-048 Q
078-91-048 S
078-91-048 W
078-91-048 V
078-91-048 U
078-91-048 Y
078-91-048 Z
078-91-048 AA
078-91-048 AC
078-91-048 AD
078-91-048 AE
078-91-048 AM
078-91-048 AQ
078-91-048 AX
078-91-048 BA
078-91-048 BF
078-91-048 BG
078-91-048 BH
078-91-048 BX
078-91-048 B2
078-91-048 CA
078-91-048 CB
078-91-048 CC
078-91-048 CD
078-91-048 DN

078-91-051E
078-91-051F
078-91-051G
078-91-051S
078-91-051T
078-91-051U
078-91-051V

078-92-007B
078-92-007C
078-92-007D

078-91-076C
078-91-076D

078-92-009AA
078-92-009AB
078-92-009AC
078-92-009AD
078-92-009AE
078-92-009AF
078-92-009AG
078-92-009AH
078-92-009AJ
078-92-009AK
078-92-009AM
078-92-009AN
078-92-009AP
078-92-009AQ

F. Vendor data & specifications received 2/7/94 by HBFD: (I have not been requested to review these)

Foam System; Spec # ST575701-49-07
Fireproofing; Spec # SP575701-80-05
Fire protection sensors and detectors vendor data
Firewater pump skid specification; SP 575701-49-03

G. Drawings received 2/10/94 by HBFD: (I have not been requested to review these)

Drawing or Item No.	Rev. No.	Description
078-91-009A	3	Firewater Transposition - DCU, Ground Flare
078-91-009B	4	Firewater Transposition - Tank Farm #1
078-91-009D	3	Firewater Transposition - Stretford Unit
078-91-033A	1	PFD - Flare System (normal operation)
078-91-044	0	Aboveground Piping Plan Index
078-91-059A	0	Finished Grading & Paving Plan
078-91-059B	0	Finished Grading & Paving Plan
078-91-059C	0	Finished Grading & Paving Plan
078-91-059D	0	Finished Grading & Paving Sections
078-91-060A	1	Foundation Location Plan (Sht 1 of 2)
078-91-060C	0	Compressor Building Foundation Details
078-91-060G	0	ME-700 & DCU Skid Foundation Details
078-91-060H	0	ME-800 Foundation Details
078-91-060J	1	P-1A/B, P-3A/B & MPS-321 FDN DET's
078-91-060L	0	P-2/T-705 SUMP Foundation Details

H. Summary:

Please have Ward Kinsman review this report for his concurrence. Let me know if you wish me to review any of the plans and/or other submittals. At this point, I do not have copies of the drawings or submittals.

I suggest you talk to Captain Bodenbender regarding the "Hazops" issue, to ascertain the details of any decisions he may have made, regarding the Hazops.

It may be a good utilization of time (and drawings) to get together and review the drawings listed herein to ascertain which can be approved now in order to assist SWEPI in their construction time frames. As you know, SWEPI has been very cooperative in this review effort.

Please call if you have any questions.

Thanks,

Jim Hunt

Jh/co

INTEROFFICE CORRESPONDENCE

To:	Jim Langer	Date:	February 4, 1994
Location:	754	Reference:	HB Gas Processing Project
From:	Bill Linkus		
Location:	5080 Calif. 300	Project #:	424601
Extension:	328-3094	Subject:	WATER ANALYSIS

Jim,

Our Mr. R. W. Hospodarec, chemical engineer, has evaluated the results of a chemical analysis of Huntington Beach city water supply that will be used for the proposed Fire Protection system at the Shell Western Huntington Beach lease.

Mr. Hospodarec's calculations and conclusions have been reviewed by the Bakersfield process engineering staff and found to be correct and appropriate.

No appreciable corrosion is expected in new carbon steel piping systems. In addition, Under ambient conditions the analysis of the water indicates minimal long term scaling. An excellent water source.

C.C.
File

FLUOR DANIEL

CALCULATIONS and SKETCHES

DATE 3 FEB 94
CONT. NO.
BY RW HESPODARIC CHK'D
SHEET NO. 1

CHECK CORROSIVENESS/SCALING TENDENACY OF CITY WATER

BASIS OF CALCULATION

1. USE LANGELIER INDEX = pH - pHs
2. USE STABILITY INDEX(SI) = 2pHs - pH
3. CALCIUM CONC = 182 mg/l (AS $CaCO_3$)
4. ALKALINITY = 122 mg/l (AS $CaCO_3$)
5. pH = 8.06
6. TEMP = 70°F - 60°F
7. USE NALCO CHART(FIG 4.9) FROM NALCO BOOK "WATER: THE UNIVERSAL SOLVENT" TO DETERMINE pHs
8. USE PERMUTIT LANGELIER INDEX AND STABILITY INDEX (RYZNAR INDEX) PAGES 110 TO 112 FROM PERMUTIT BOOK "WATER AND WASTEWATER TREATMENT DATA BOOK".

CALCULATIONS

1) LANGELIER INDEX

A) USE NALCO BOOK, PAGE 60, FIG 4.9

pHs = 7.65

LANGELIER INDEX = pH - pHs = 8.06 - 7.65 = 0.41 AT 70°F
= 8.06 - 7.70 = 0.36 AT 60°F

WATER IS SCALING

B) USE PERMUTIT BOOK

pHs = 9.3 + A + B - (C + D)

A = TOTAL SOLIDS = 715 mg/l - 928 mg/l ; A = 0.18
B = TEMP AT 60°F ; B = 2.20
C = CA HARD = 182 mg/l AS $CaCO_3$ C = 1.86
D = ALKALINITY = 122 mg/l AS $CaCO_3$ D = 2.09

pHs = 9.3 + 0.18 + 2.20 - (1.86 + 2.09)
= 7.73

LANGELIER INDEX = pH - pHs
= 8.06 - 7.73 = 0.33 AT 60°F
GOOD CHECK

IM E-020 REV. 8/88
VTED IN U.S.A.

FLUOR DANIEL

CALCULATIONS and SKETCHES

DATE 3 FEB 94
CONT. NO.
BY RW HOSPODAREC CHK'D
SHEET NO. 2

CHECK CORROSIVENESS / SCALING TENDANCY OF CITY WATER

CALCULATION CONT'D

2) STABILITY OR RYZNAR INDEX. = $2pH_s - pH$

AT 60°F $pH_s = 7.73$

RYZNAR INDEX = $2 \times 7.73 - 8.06 = 7.4$

WATER IS SLIGHTLY CORROSIVE

CONCLUSION

1) CITY WATER IS PROBABLY QUITE NEUTRAL FROM THE STANDPOINT OF SCALING AND CORROSION. THE LANGELIER INDEX SHOWS WATER TO BE SLIGHTLY SCALING WHEREAS RYZNAR INDEX SHOWS WATER TO BE SLIGHTLY CORROSIVE.

2) NO APPRECIABLE CORROSION IS EXPECTED TO OCCUR IN THE PIPING IF SULFATE REDUCING BACTERIA (SRB) DO NOT GET ESTABLISHED WITHIN THE PIPING SYSTEM.

RM E-060 REV. 6/88
INTED IN U.S.A.

SHELL WESTERN E&P INC.
CHEMICAL LABORATORY REPORT
CHEMICAL ANALYSIS OF WATER

TO: A. BUDVITIS
FROM: D. L. LANG
DATE: JANUARY 26, 1994

SAMPLE SOURCE: CITY WATER LINE
LAB NUMBER: 9738
SAMPLED BY: C. KESTER
DATE SAMPLED: 1/19/94
ANALYST: DST

pH (Laboratory):	8.06
Tot. Hardness (as CaCO3):	274
Calcium (as CaCO3):	182
Magnesium (as CaCO3):	92
Tot. Alkalinity (as CaCO3):	122
Chloride:	196
Sulfate:	291
Boron:	< 1
Iodide:	< 0.2
Barium:	0.21
Iron:	< 0.05
Dissolved Oxygen:	1

RADICALS –

ANIONS

		(epm)	(ppm)
Bicarbonate	HC03	2.44	149
Sulfate	SO4	6.06	291
Chloride	Cl^-	5.53	196
Borate	B4O7	0.00	0
Iodide	I	0.00	0
	TOTAL	14	636

CATIONS

		(epm)	(ppm)
Calcium	Ca	3.64	73
Magnesium	Mg	1.84	22
Barium	Ba	0.00	0
Sodium	Na.K	8.55	197
	TOTAL	14	292

Total Dissolved Solids (by evaporation): 715
Total Dissolved Solids (by calculation): 928

All results, are expressed in mg/l.

T01242E



FLUOR DANIEL

FLUOR DANIEL, Inc. 3333 Michelson Drive, Irvine CA 92730 (714) 975-2000
FACSIMILE LEAD SHEET

Corporate Hdqrts Bldg.
Telex: 681441
Message Center Facsimile
(714) 975-5981 (714) 975-5963
Voice Contact: (714) 975-6988

Fluor Daniel Bldg.
Telex: 181625
Message Center Facsimile
(714) 975-5271 975-6549
Voice Contact: (714) 975-5272

Message Center Control No. _____

Date Submitted February 3, 1994

No. of Pages 3
Including Lead Sheet

TO: COMPANY NAME FD Bakersfield

ATTN Bill Linkus

CITY _____ STATE _____ COUNTRY _____

FACSIMILE NO. TO BE CALLED (805) 327-7110

VOICE CONTACT NO. (___) _____

FROM: ORIGINATOR'S NAME Dave Rich EXT. NO. 5166

CHARGE TO ORG NO. ___ CONTRACT NO. 04 424601 EMP NO. _____

RETURN ORIGINALS TO _____ MAIL CODE _____

MESSAGE

Bill,

Attached is an analysis of the Shell water sample data, provided by Bob Hospoderic. His summary indicates relatively benign water supply characteristics.

Be advised: the sampling represents the future water source (City water supply) characteristics and it's potential effects on piping. It does not necessarily reflect the condition of existing piping which was previously fed by well-water sources.

FOR MESSAGE CENTER USE ONLY

TIME AND DATE TRANSMITTED _____ OPR'S INTLS _____ DIST INTLS _____

GAS PROCESSING PROJECT
HUNTINGTON BEACH FIRE DEPARTMENT APPROVAL STATUS

* Documentation / information which will be provided to the city of Huntington Beach Fire Department and it's independent consultant for review.

** Items / components / safety systems which will be installed where appropriate and listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.

REFERENCE PARAGRAPH NUMBER	DELIVERABLE	DELIVERABLE STATUS	APPROVAL REQUIRED	COMPLETED	PENDING APPROVAL	OUTSTANDING SHELL ACTION ITEMS
4.1 - HAZOPS (HAZARD AND OPERABILITY STUDY)*	HAZOP STUDY	COMPLETED, HBFD WAS INVITED TO ATTEND STUDY SESSION.	FOR INFORMATION ONLY	X		
4.2 - TOXIC AND FLAMMABLE DISPERSION MODELING *	MODELING REPORT	COMPLETED	FOR INFORMATION ONLY	X		
4.3 - HAZARDOUS MATERIALS/LIST*	COPY ONSITE, ANNUALLY UPDATED.	UPDATED	FOR INFORMATION ONLY	X		
5.1 - FIREWATER SYSTEM**	SP-575701-49-05, DWG. NO.078-92-006A, DWG. NO.078-91-009A, DWG. NO.078-91-009B, DWG. NO.078-92-009C, DWG. NO.078-91-009D, DWG. NO.078-92-007B, DWG. NO.078-92-007C, DWG. NO.078-92-007D	**COMPLETED, NOTE (1): ALL THE DRAWINGS LISTED ARE APPLICABLE TO PARAGRAPHS 5.2, 6.0, 7.0, & 8.0. ATTACHED**	***APPROVAL REQUIRED BY HBFD***		X	
5.2 - FIREWATER PUMP**	SP-575701-49-03 DATA SHEET XXXXXX	COMPLETED, SEE NOTE (1) UNDER PARA. 5.1, SPEC & DATA SHEETS ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
6.0 - FIRE SUPPRESSION SYSTEM**	SP-575701-49-07	COMPLETED, SEE NOTE (1) UNDER PARA. 5.1, SPEC ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
7.0 - GAS/FIRE DETECTION AND SHUTDOWNS**	DWG NO.078-92-007D DATA SHEETS XXXX	COMPLETED, SEE NOTE (1) UNDER PARA. 5.1, SPECS & DATA SHEETS ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
8.0 - FIRE PROTECTION SYSTEMS**	COVERED IN PARAGRAPHS 5.1,5.2, 6.0, & 7.0	COMPLETED, SEE NOTE (1) UNDER PARA. 5.1.	***APPROVAL REQUIRED BY HBFD***		X	
9.0 - ELECTRICAL AREA CLASSIFICATION**	DWG NOS.078-91-048B, 048C ,048D, 048E, 048F, 048G, 048H, 048I, 048J, 048K, AND 048L.	COMPLETED, DRAWINGS ARE ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	

REFERENCE PARAGRAPH NUMBER	DELIVERABLE	DELIVERABLE STATUS	APPROVAL REQUIRED	COMPLETED	PENDING APPROVAL	OUTSTANDING SHELL ACTION ITEMS
10.0 - FIREPROOFING OF VESSELS AND STEEL**	SP-575701-80-05	COMPLETED, SPEC ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
11.0 - CRITICAL CABLE PROTECTION*	CABLE IN CABLE TRAY OR CONDUIT.	CABLE SHOWN ON DWG NO'S.078-91-009A, 009B, & 009C ATTACHED.	FOR INFORMATION ONLY	X		
12.0 - DRAINAGE AND CONTAINMENT**	DWG. NOS. 078-91-060C 078-91-060G 078-91-060H 078-91-060J 078-91-060L	COMPLETED, DRAWINGS ARE ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
13.0 - ACCESS ROADS**	DWG. NOS. 078-91-059A, 078-91-059B, 078-91-059C, 078-91-059D.	COMPLETED, DRAWINGS ARE ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
14.0 - OFF-SITE MONITORING AND PROTECTION OF THE PUBLIC*	REFER TO PARAGRAPH 4.1, HAZOPS.	COMPLETED, HBFD WAS INVITED TO ATTEND STUDY SESSION.	FOR INFORMATION ONLY	X		
15.0 - LOCATION AND SEPARATION OF EQUIPMENT (SITE LAYOUT)**	DWG. NOS. 078-91-044 078-91-060A AND FIREWATER DWGS. IN NOTE (1).	COMPLETED, DRAWINGS ARE ATTACHED.	***APPROVAL REQUIRED BY HBFD***		X	
16.0 - EQUIPMENT, SYSTEM AND PROCESS SAFETY, MONITORING AND SHUTDOWNS*	REFER TO PARAGRAPH 4.1, HAZOPS.	COMPLETED, HBFD WAS INVITED TO ATTEND STUDY SESSION.	FOR INFORMATION ONLY	X		
17.0 - EMERGENCY RELIEF SYSTEMS**	PFD-078-91-033A WITH EQUIP. LIST ON DWG'S 078-91-009A, 009B, & 009D.	COMPLETED, DRAWINGS ARE ATTACHED.	***APPROVAL REQUIRED BY HBFD***	X		
21.0 - EMERGENCY RESPONSE PLAN*	EXISTING PLAN TO BE UPDATED WITH MODIFIED FACILITY.	WILL BE AVAILABLE BEFORE PROJECT COMPLETION.	FOR INFORMATION ONLY			X
22.0 - ONGOING INSPECTION, SAFETY, MAINTENANCE AND QUALITY ASSURANCE PLAN*	COPY AVAILABLE FOR INSPECTION AT SITE.	COMPLETE AND AT SITE FOR ALL SUBJECTS.	FOR INFORMATION ONLY	X		

REFERENCE PARAGRAPH NUMBER	DELIVERABLE	DELIVERABLE STATUS	APPROVAL REQUIRED	COMPLETED	PENDING APPROVAL	OUTSTANDING SHELL ACTION ITEMS
23.0 - WORKER SAFETY AND TRAINING PROGRAM*	CAN BE REVIEWED WITH LOCAL SAFETY/TRAINING COORDINATOR AT SITE.	COMPLETE AND AT SITE.	FOR INFORMATION ONLY	X		
24.0 - SITE SECURITY PLAN*	24 HOUR GUARD AND SECURITY WITH LIMITED ACCESS.	SITE IS SECURED BY GUARDED GATE ACCESS.	FOR INFORMATION ONLY	X		
25.0 - HAZARD IDENTIFICATION METHODS (LABELING, ETC.)*	UNIFORM FIRE CODE PLACARD PLACEMENT & LABELING PER NFPA.	IN PLACE ON SITE.	FOR INFORMATION ONLY	X		
26.0 - HAZARDOUS MATERIALS MANAGEMENT PLAN*	EXISTING HAZARDOUS MATERIALS BUSINESS PLAN TO BE MODIFIED AS REQUIRED FOR NEW FACILITY.	WILL BE AVAILABLE BEFORE PROJECT COMPLETION.	FOR INFORMATION ONLY			X
27.0 - SITE EQUIPMENT AND ABANDONMENT PLAN**	INITIAL PLAN SUBMITTED TO HBFD.	THIS PLAN IS SUBJECT TO THE CITY OF HUNTINGTON BEACH END USE INPUT AND WILL BE THOROUGHLY ADDRESSED IN THE FUTURE. THEREFORE, IT WILL BE SEPARATE FROM THE FIRE PROTECTION PLAN FOR THE GAS PLANT PROJECT.	FOR INFORMATION ONLY			X

City of Huntington Beach
2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

January 11, 1994

Mr. J. F. Langer, Senior Chemical Engineer
Shell Western E & P, Inc.
Coastal Assets California Division
SPT 754
5060 California Avenue
Bakersfield, CA 93309

RE: **SHELL SWEPI PROJECT - HUNTINGTON BEACH, DISTRICT 348**

Dear Mr. Langer:

The Fire Department has reviewed the proposed fire water protection system layout as required by Section 5.1.6 of the Fire Protection Plan for the Shell Oil Lease and submits the following additions and/or comments:

Part One - General Comments:

1. Locations of monitors and hydrants appear satisfactory. Two isolation valves need to be added in the Stretford area at the junction of the two mains (one valve on each main) prior to the hydrants.

2. Locations of some PIVs are not satisfactory. Certain PIVs are shown in the middle of the roadway; they should be on the opposite side of the road from the system which they supply. (See sheet by sheet comments beginning on page 3.)

3. Main sizes shall be shown for clarity. Minimum main size is to be 8" or larger as needed, with monitor and hydrant laterals 6" or larger.

4. The manufacturer and model number of the hydrants, monitors, hose reels, quadrameses, foam systems, fire pump, fire alarm panel, etc., must be submitted to the Fire Department. Such submittals are required per the Fire Protection Plan, Section 5.1. All such equipment shall be UL listed or FM approved for fire protection service when such listings or approvals exist for the type of equipment (per Section 5.0 of the Fire Protection Plan). Data regarding the fire pump and appurtenances, as well as installation drawings, are required.

5. All existing 4" Fire Department standpipes shall be replaced with approved fire hydrants with 4" outlets.

6. Design and calculations for water spray and foam systems shall be submitted for review per Section 5, 28, and 29 of the Fire Protection Plan.

7. The major issues with this submittal surround the proposed use of existing and new unlined steel fire mains. The Fire Protection Plan, Section 5.1.8 and 5.1.10, requires such mains to be internally lined and externally coated; NFPA 24 "Private Fire Service Mains" requires this per Section 7-2. The Fire Protection Plan, Section 28 cites this standard as applicable. The American Water Works Association also recommends against the use of unlined steel water mains.



The purpose of the lining requirement is to prevent corrosion and tuberculation within a fire main. Tuberculation results in a reduction of inside diameter with resultant loss in flow capacity. Corrosion can lead to failure of the pipe. Unlined steel is vulnerable to attack by certain types of water (hungry), which will eat away at the steel. Such destructive process can result in the plugging of orifices and failure of pipe.

The following conditions shall be provided in order for the Fire Department to approve the use of the existing **unlined** 12" steel pipe.

1. Age and condition of the pipe.

2. Actual fire flow test results which include static PSI, observed flowing PSI, and observed flow (GPM) at the furthest point. Calculation as to available flow at 20 PSI shall also be provided.

3. Hydrostatic test.

4. Photographs of exterior and interior cross section of the pipe to ascertain current condition.

5. A certified laboratory test of water which has flowed through the pipe. (Baseline sample from water source would also be needed.)

The following shall be required assuming that the test results and pipe conditions are acceptable to the Fire Department:

1. Install corrosion monitoring system.

2. Hydrostatically test the line every five years.

3. Install a "side stream" inspection piece aboveground so the Fire Department can unlock and remove a section of the pipe to inspect its condition annually.

4. Conduct an annual flow test in all areas of the plant to assure needed fire flow and PSI is available (2500 GPM at 100 PSI flowing PSI at the most remote location) during times of peak on-site domestic (non-emergency) flow. This flow test shall include a water sample.

5. "Pig" the line annually.

If, at any time, the results of these tests and/or inspections prove unsatisfactory, Shell Western will replace the pipe or line it in place. All new piping required for this fire protection project shall be installed per NFPA 24 standards; either lined and coated steel or plastic pipe listed/approved for fire protection use.

Part Two - Detailed Comments, Fire Protection Plan Addenda:

Section 5, Page 2 - Fire Protection Summary.

This summary shall be clarified as discussing fixed systems only, as it does not discuss the provision of monitors, hydrants, and hose reels.

Area #2 (oil plant), Page 3.

Foam density is listed as .16 GPM/square foot. However, Fluor Corp's conference notes dated July 21, 1993, page 2, states density of .10 GPM/square foot. Clarification is needed. We assume the density stated in this addendum applies. Also, conference notes lists quantity of foam to be 200 gallons. This is incorrect based upon the .16 density, duration, and Fire Protection Plan.

Area #3, Page 4.

Fire flow calculation says 1000 GPM for monitors. No monitors are shown on drawing #078-91-009D for area #3 (hydrants are shown).

Addenda Approval (Item 10, Page 5).

States that this document shall serve as the official Fire Protection Plan. This statement is incorrect as this is only an addendum to the official plan.

Detailed Comments - Water System Drawings Dated August 20, 1993:

1. Sheet 078-92-009-C (Fire Pump Area).

   a. Backflow device to be UL listed or FM approved and have OS & Y valves chained open.

   b. New mains shall comply with NFPA 24 (plastic or lined/coated steel, etc.).

c. Isolation valves shown immediately upstream and downstream of fire pump shall be OS & Y or have PIVs.

d. Fire Department connection to be UL listed or FM approved.

e. Fire alarm panels to be located at the plant's south and north entrances with graphics approved by the Fire Department.

f. Main sizes shall be indicated on the drawing.

g. Fire pump and system must demonstrate 2,500 GPM at 100 PSI at all portions of the system including the nozzle PSI at most remote monitor during peak periods of on-site domestic (non-emergency) water usage.

h. Pump data and listings shall be submitted to the Fire Department, as well as installation drawings.

i. Water mains in the area of the Fire Department connection shall be underground.

j. Pave the area around the quadramese and the approach to accommodate 50,000 pound fire apparatus.

2. Sheet 078-91-009-A (DCU/Ground Flare).

a. Show main size on drawing.

b. Move PIVs serving the water spray systems to the opposite side of the road and away from the road.

c. More detail will be needed on location, etc. of quadramese in relation to City main on Palm Avenue and Cherryhill Lane or other approved location providing access.

d. Design and calculations needed for water spray systems. Deluge valves shall be located in an area safely accessible in a fire situation; 50' from the protected equipment is preferred. Valves shown appear to be too close. – How many feet

3. Sheet 078-9-009-D (Stretford Unit).

a. Addendum refers to monitor; no monitors are shown. These shall be monitor/ hydrants.

b. Add isolation value on north side of main at tee to hydrant on south side.

c. Three hydrant monitors will be required for this unit in place of the hydrants shown. Add the third hydrant monitor on ocean side of unit at midpoint.

4. Sheet 078-91-009-B (Tank Farm #1).

   a. Move PIV which is near foam system out of road.

   b. Indicate main sizes on drawing.

   c. Detailed plans and calculations shall be submitted for foam system.

   d. Plans and specifications needed for hydrants, monitors, and hose reels.

   e. Replace existing 4" Fire Department standpipes with approved fire hydrants with 4" outlets.

   f. Move the fire hydrant next to the foam header north next to the roadway.

Part Three - General Notes:

1. All laterals to hydrants in this facility to have isolation valves and monitors shall have approved operating valves. Fire equipment near roads shall be protected by approved crash posts, per Section 5-1.9 of the Fire Protection Plan.

2. All roadways that make access to any fire protection facilities or equipment shall be an all weather surface to withstand 50,000 pound fire apparatus.

3. Applicant shall demonstrate compliance with the Uniform Fire Code for spill control, containment, and drainage for caustic storage tank T-5, and any other vessels or tanks with flammable, combustible, or hazardous liquids.

Please submit revised drawings for Fire Department approval. Additionally, please submit one master fire water system drawing which shows the entire project.

Thank you for your cooperation. If you have any questions, please call me at 714-536-5564.

Sincerely,

Thomas F. Poe
Fire Marshal

TFP/sr
c: Howard Hubert, Deputy Fire Marshal/Development
Ward Kinsman, Fire Protection Analyst
Jim Hunt, Hunt Research Corp.
File

a:langer.ltr

City of Huntington Beach
2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

December 30, 1993

Mr. J. F. Langer, Senior Chemical Engineer
Shell Western E&P, Inc.
Coastal Assets California Division
SPT 754
5060 California Ave.
Bakersfield, California 93309

RE: SHELL SWEPI PROJECT

The Fire Department has reviewed the proposed fire water protection system layout as required by Section 5.1.6 of the Fire Protection Plan for the Shell Oil Lease and submits the following additions or comments:

PART ONE; GENERAL COMMENTS:

a. Locations of monitors and hydrants appear satisfactory. Two isolation valves need to be added in the Stretford area at the junction of the two mains (one valve on each main) prior to the hydrants.

b. Location of some P.I.V.'s are not satisfactory. Certain P.I.V.'s are shown in the middle of the roadway, they should be on the opposite side of the road from the system which they supply. See sheet by sheet comments beginning on page 3.

c. Main sizes are not shown. They should be shown for clarity. Minimum main size is to be 8 inch or larger as needed, with monitor and hydrant laterals 6 inch or larger.

d. The manufacturer and model number of the hydrants, monitors, hose reels, quadramese's, foam systems, fire pump, fire alarm panel, etc., must be submitted to the fire department. Such submittals are required per the Fire Protection Plan, Section 5.1. All such equipment shall be UL listed or FM approved for fire protection service, when such listings or approvals exist for the type of equipment (per Section 5.0 of the Fire Protection Plan). Data regarding the fire pump and appurtenances, as well as installation drawings are required.

e. All existing 4 inch fire department standpipes shall be replaced with approved fire hydrants with 4 inch outlets.

f. Design and calculations for water spray and foam systems shall be submitted for review per Sections 5, 28, and 29 of the Fire Protection Plan.

g. The major issues with this submittal surround the proposed use of existing and new unlined steel fire mains. The Fire Protection Plan, Section 5.1.8 and 5.1.10, requires such mains to be internally lined and externally coated. NFPA 24 "Private Fire Service Mains" requires this per Section 7-2. The Fire Protection Plan, Section 28 cites this standard as applicable. The American Water Works Association also recommends against the use of unlined steel water mains.

The purpose of the lining requirement is to prevent corrosion and tuberculation within a fire main. Tuberculation results in a reduction of inside diameter with resultant loss in flow capacity. Corrosion can lead to failure of the pipe. Unlined steel is vulnerable to attack by certain types of water ("hungry" water), which will eat away at the steel. Such destructive process can result in the plugging of orifices and failure of pipe.

In order for the Fire Department to approve the use of the existing unlined 12 inch steel pipe, the following conditions shall be provided:

1. Age and condition of the pipe.

2. Actual fire flow test results which include static PSI, observed flowing PSI and observed flow (GPM) at the furthest point. Calculation as to available flow at 20 PSI shall also be provided.

3. Hydrostatic test.

4. "Photo" of exterior and interior cross section of the pipe to ascertain current condition.

5. A certified laboratory test of water which has flowed through the pipe. (Baseline sample from water source would also be needed.)

Assuming that the test results and pipe conditions are acceptable to the Fire Department, then the following shall be required:

1. Install corrosion monitoring system.

2. Hydrostatically test the line every 5 years.

3. Install a "side stream" inspection piece aboveground so that the Fire Department can unlock and remove a section of the pipe to inspect it's condition annually.

4. Annual flow test to assure needed fireflow and PSI is available, in all areas of the plant (2500 GPM at 100 PSI flowing PSI at the most remote location) during times of peak on-site domestic (non-emergency) flow. This flow test should include a water sample.

5. "Pig" the line annually.

If at any time, the results of these tests and or inspections prove unsatisfactory, Shell Western will replace the pipe or line it in place.

All new piping required for this fire protection project, shall be installed per NFPA 24 Standards. Either lined and coated steel or plastic pipe listed/approved for fire protection use.

PART TWO; DETAILED COMMENTS; FIRE PROTECTION PLAN "ADDENDA".

Section 5; page 2 (Fire Protection Summary):

1. This summary should be clarified as discussing fixed systems only, as it does not discuss the provision of monitors, hydrants, and hose reels.

2. Area #2 (Oil Plant) Page 3:

Foam density is listed as .16 GPM/sq'. However Fluor Corp's conference notes dated 7/21/93, page 2, state density of .10 GPM/sq'. Clarification needed. We assume the density stated in this addendum applies. Also, conference notes lists quantity of foam to be 200 gallons. This is not correct based upon the .16 density, duration and the Fire Protection Plan.

3. Area #3 (page 4):

Fireflow calculation says 1000 GPM for monitors. No monitors are shown on Drawing #078-91-009D for area #3 (hydrants are shown).

4. Addenda Approval (Item 10, Page 5):

States that this document shall serve as the official Fire Protection Plan. This statement is not correct as this is only a addendum to the official plan.

DETAILED COMMENTS; WATER SYSTEM DRAWINGS DATED 8/20/93:

1. Sheet 078-92-009-C (Fire Pump Area):

a. Backflow device to be UL listed/FM approved and have OS&Y valves chained open.

b. New mains shall comply with NFPA 24 (plastic or lined/coated steel etc.).

c. Isolation valves shown immediately upstream and downstream of fire pump should be OS&Y or have P.I.V.'s.

d. Fire Department connection to be UL listed or FM approved.

e. Fire alarm panels to be located at plant South and North entrances with graphics approved by the Fire Department.

f. Main sizes shall be indicated on the drawing.

g. Fire pump and system must demonstrate 2,500 GPM at 100 PSI at all portions of the system including the nozzle PSI at most remote monitor during peak periods of on-site domestic (non-emergency) water usage.

h. Pump data and listings shall be submitted to the Fire Department, as well as installation drawings.

i. Water mains in the area of the Fire Department connection shall be underground.

j. Pave the area around the quadramese, and the approach thereto, to accommodate a 50,000 pound fire truck.

2. Sheet 078-91-009-A (DCU/Ground Flare):

a. Show main size on drawing.

b. Move P.I.V.'s serving the water spray systems, to opposite side of road, and away from the road.

c. More detail will be needed on location, etc. of quadramese in relation to city main on Palm and Cherry Hill or other approved location providing access.

d. Design and calculations needed for water spray systems. Deluge valves should be located in an area safely accessible in a fire situation, 50 feet from the protected equipment is preferred. Valves shown appear to be too close.

3. Sheet 078-9-009-D (Stretford Unit):

a. Addendum refers to monitors. No monitors are shown. These shall be monitor/hydrants.

b. Add isolation valve on north side of main at tee to hydrant on south side.

c. Three hydrant monitors will be required for this unit in place of the hydrants shown. Add the third hydrant monitor on ocean side of unit, at midpoint of unit.

4. Sheet 078-91-009-B (Tank Farm#1).

a. Move P.I.V. which is near foam system, out of road.

b. Indicate main sizes on drawing.

c. Detailed plans and calculations shall be submitted for foam system.

d. Plans and specifications needed for hydrants, monitors, and reels.

e. Replace existing 4 inch Fire Department standpipes with approved fire hydrants with 4 inch outlets.

f. Move the fire hydrant next to the foam header north, next to the roadway.

PART THREE; GENERAL NOTES::

All laterals to hydrants in this facility to have isolation valves. Monitors shall have approved operating valves. Fire equipment near roads shall be protected by approved crash posts, per Section 5-1.9 of the Fire Protection Plan.

All road ways that make access to any fire protection facilities or equipment shall be an all weather surface able to withstand 50,000 pound Fire Department apparatus.

Applicant shall demonstrate compliance with The Uniform Fire Code for spill control, containment and drainage for caustic storage tank T-5, and any other vessels or tanks with flammable, combustible or hazardous liquids

Please submit revised drawings for Fire Department approval. Also submit one master firewater system drawing showing entire project and firewater system.

Thank you for your cooperation, please call me if you have any questions at 714-536-5564

Sincerely,

THOMAS F. POE

Hunt Research Corporation
JAMES W. HUNT, President (805) 688-4625

December 23, 1993

Captain Howard Hubert
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648
Fax: (714) 374-1551

IN RE: Fire Department Letter to SWEPI, dated 11/24/93

Here are my comments on the 11/24/93 letter per your request of 12/21/93.

My comments are keyed to sections in your letter:

Page one:

Part One; a:

Add after "area": "at the junction of the two mains (on valve on each main)."

Item c: Add after "inch (or larger as needed)". Add after "monitor": "and hydrant".

Page Two:

Item e: Change "connection" to "outlet."

Page Three:

Item 4 at top of page: After parenthesis add "during times of peak on-site domestic (non emergency) flow."

Item 5: In second sentence, insert "and coated" after lined. Cross out blue brute piping and insert "plastic pipe listed/approved for Fire protection use."

Page Four:

Item I-C (top of page): Insert "immediately" after "shown."

Item i-e: Change "are" to "with."

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Item 1-G: Add: "during peak periods of on-site domestic (non emergency) water usage."

Add item 1-J: "Pave the area around the quadramese, and the approach thereto, to accommodate a 50,000 pound fire truck."

Change number "3" to "2" and "4" to "3".

Item C at bottom of page: Add: Add the third hydrant monitor on ocean side of unit, at midpoint of unit.

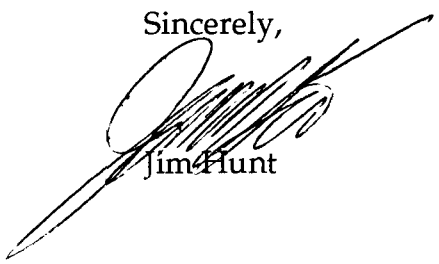
Page 5: Change #5 to #4.

Item a: Insert "which is" after "P.I.V."

Part Three: General Notes: Insert prior to sign off: "Please submit revised drawings for Fire Department approval. Also submit one master firewater system drawing showing entire project and firewater system."

Call if you have any questions. Have a Merry Christmas.

Sincerely,



Jim Hunt

cc: file

JH/co

SPECIFICATION SP-575701-49-03

FIREWATER PUMP SKID

The attached specification, revised as indicated below, is issued herewith. If this is a later revision than now in your possession, please destroy previous issue.

Revision No.	0	Date	02/27/92	Pages	ALL
Revision No.	1	Date	01/04/93	Pages	ALL
Revision No.	2	Date	11/19/93	Pages	ALL
Revision No.		Date		Pages	
Revision No.		Date		Pages	

Note: New issue_____

Revised sheets only attached_____

Entire specification reissued X

Prepared by: VINAY KUMAR

Date: 02/27/92

Approved by Fluor Daniel:

Date: 11/23/93

Approved by SWEPI:

Date: 11/24/93

SPECIFICATION SP-575701-49-03

FIREWATER PUMP SKID

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SPECIFICATION SP-575701-49-03

FIREWATER PUMP SKID

1.0 GENERAL

1.1 Scope

1.1.1 This specification prescribes the general requirements for one horizontal firewater pump, one jockey pump, drivers, controllers and appurtenances all skid mounted and specifically designed for fire protection service. This firewater pump skid (ME-100) shall be designed according to Drawing No. 078-92-007B and will be installed at the Shell Western E&P Inc Huntington Beach (CA) Field lease.

1.1.2 This specification supplements the Data Sheets on which the design conditions and special requirements are listed in detail. Whenever the data included on an individual Data Sheet conflicts with this general specification, the Data Sheet shall govern.

1.1.3 Compliance with this specification does not relieve SELLER of the responsibility of furnishing pumps and other equipment of proper design, mechanically and electrically suited to meet operating guarantees at the specified service conditions. Neither does it relieve SELLER of the responsibility of furnishing equipment assembled and prepared for shipment in a professional manner.

1.2 Work Included In SELLER'S Scope

1.2.1 The SELLER shall be responsible for design, fabrication and performance test of a firewater pump skid to satisfy the design conditions as specified on the Data Sheets.

1.2.2 The scope of supply shall include a firewater pump with a diesel engine driver, an electric motor driven jockey pump, controllers and other supporting accessories, as required.

1.3 Work Not Included In SELLER'S Scope

1.3.1 Support foundation for firewater pump skid.

1.3.2 Installation of firewater pump skid.

1.3.3 Tie-in of piping and utilities at skid limits.

1.3.4 Shelter over firewater pump skid.

1.4 Definitions

For the purposes of this specification, the following definitions apply:

BUYER: Shell Western E&P Inc. (SWEPI) or SWEPI's authorized representative.

SELLER: The vendor selected by BUYER to supply equipment, engineering, or services described in this specification and referenced documents.

CONTRACTOR: The corporation, partnership or individual contracted to provide on-site construction services, materials and/or fabrication in accordance with this specification and referenced documents.

MANUFACTURER: The original fabricator of the equipment or components described in this specification and referenced documents.

FABRICATOR: The corporation, partnership or individual contracted to perform services to produce a specific product normally remote from jobsite, as described in this specification and referenced documents.

2.0 CODES, STANDARDS AND REGULATIONS

2.1 BUYER's Data Sheets

Form E-212 Vendor's Drawing & Data Commitment

Form E-1183 Firewater Pump

Form E-559 Centrifugal Pump (Jockey Pump)

Form E-568 Electric Motors

2.2 Referenced Codes and Standards

The following referenced Codes and Standards shall, to the extent specified herein, form a part of this specification. Where a specific edition date is not indicated, it shall be taken that the most current edition (including addenda) in effect at the time of award shall apply.

In case of conflicts between the following Codes and Standards, and local codes at installation site, BUYER shall be consulted before disposition.

American National Standards Institute (ANSI)

B4.1 *Preferred Limits and Fits for Cylindrical Parts*

American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code

Section V Non-Destructive Examination

Section IX Welding and Brazing Qualifications

Associated Factory (FM) Mutual Companies

Handbook of Industrial Loss Prevention (Approving organization: FM - Engineering Division)

Cal-OSHA

California Code of Regulations, Title 8

Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry

MSS-SP-54 Quality Standard for Steel Castings Radiographic Inspection Method

National Fire Protection Association (NFPA)

NFPA 20 Centrifugal Fire Pumps (Approving organization: Underwriters Laboratories, Inc.)

NFPA 70 National Electrical Code

Uniform Building Code (UBC)

American Welding Society (AWS)

Uniform Fire Code (UFC)

Underwriters Laboratories, Inc. (UL)

UL 448 Standard for Pumps for Fire Protection Services

Diesel Engine Manufacturer's Association (DEMA)

Standard Practices for Stationary Diesel and Gas Engines

3.0 GENERAL REQUIREMENTS

3.1 The firewater pump skid shall be SELLER's standard, reliable design to comply with this specification. Each major equipment component shall be of proven design with minimum of two years of successful operation in equal or more severe design conditions as outlined in the Data Sheet.

3.2 The complete package, including pumps, drivers, controllers and appurtenances, will be purchased under a unit contract stipulating compliance with NFPA 20, and shall be UL and/or FM approved or listed for the intended service.

3.3 The complete unit shall be field "acceptance tested" for proper performance in accordance with the provisions of NFPA 20.

3.4 SELLER shall supply all equipment completely fabricated, assembled, tested and dismantled only to the extent necessary for inspection and practical shipping.

3.5 SELLER shall be responsible for coordination of all subvendors and for overall guarantees relating to mechanical and electrical compatibility of all equipment.

3.6 Pumps, drivers, controllers and appurtenances shall be suitable for outdoor, unprotected installation and a marine coastal environment. The firewater pump skid will be located under a shelter provided by others.

3.7 Design and construction shall satisfy the requirements of UBC Chapter 23 Seismic Zone 4 for earthquake.

4.0 PUMPS

4.1 Materials of ASTM qualify, or equal, shall be used. Castings shall be sound, free from shrink or blow holes, scale, blisters and other defects. All casting burrs shall be filed or ground flush with the surface of the casting.

4.2 At 150% of the rated capacity, the firewater pump (P-100) shall develop at least 65% of its rated head and shall not exceed 120% of the rated head at zero capacity.

4.3 Pumps shall be horizontal, split case centrifugal designs and shall be UL listed and/or FM approved.

4.4 Firewater system pressure shall be maintained by a jockey pump (P-101) and controller mounted on the firewater pump skid, as described in Section 11.0 of this specification.

4.5 Equipment shaft extensions and/or couplings shall be designed to permit the use of a dial indicator in checking equipment alignment.

4.6 SELLER shall furnish all auxiliary piping located within the confines of the packaged unit. Piping shall be designed to provide flexibility and accessibility necessary for installation, proper operation, maintenance and cleaning.

4.7 Shaft centerlines of pumps shall be of sufficient height above the baseplate to permit the piping of all auxiliary connections.

4.8 All flanged connections shall be provided with the bolt holes straddling the horizontal and vertical centerlines.

5.0 BASEPLATE AND MOUNTING

5.1 The pump, driver, accessories and gear (if required) shall be mounted, pre-aligned but not doweled, and shipped on a common fabricated steel, drain rim type, skid.

5.2 The baseplate shall have a full metal deck with provisions for complete drainage through a 1 inch NPT drain connection at the pump end edge of the baseplate.

5.3 The baseplate shall include a minimum of two 6 inch grout holes, with raised lips to prevent liquid accumulation over the grout, and shall have sufficient vents for complete grout distribution. The holes shall be arranged to allow for grouting with all components in place. One grout hole shall be supplied per bulkhead section, as a minimum.

5.4 Lifting lugs or other arrangements shall be provided for handling the assembled units during transportation and field erection.

5.5 Baseplates will be epoxy grouted. Baseplate shall be sandblasted, In accordance with SSPC SP-6. All the grouting surfaces shall be precoated with a catalyzed epoxy primer.

5.6 Pump and driver support pads shall be machined flat and in the same plane within 0.002 inch per foot of distance between pads. Driver support pads shall be machined to have 3/16 inch (minimum) shim space available. Stainless steel shims shall be used with a maximum of 5 shims per shim pack.

5.7 Equipment support pads shall be welded to the skid.

5.8 Vertical leveling screws spaced for stability shall be provided on the outside perimeter of the baseplate. These shall be numerous enough to carry the weight of the baseplate, pump and driver, but in no case shall fewer than six (6) screws be provided.

5.9 Alignment positioning screws shall be provided for all drivers. Screw assemblies shall not be welded to the equipment support pads, unless machining of pads is performed after welding of screw assemblies.

5.10 Post Weld Heat Treatment shall be performed for all welding on baseplates. Welding is not permitted on baseplates after machining and leveling of mounting pads.

5.11 No component of the unit (or accessories) may overhang the baseplate except the motor conduit box.

6.0 COUPLINGS AND GUARDS

6.1 All-metal, flexible couplings shall be furnished and mounted by the pump SELLER.

6.2 Couplings shall be designed with a 1.5 service factor based on motor or engine nameplate horsepower.

6.3 The coupling shall be dynamically balanced when the coupling size-speed relationship is such that balancing is recommended by MANUFACTURER or is indicated in the pump Data Sheets.

6.4 Couplings shall be mounted on shafts with cylindrical fit and shall be keyed in place. Cylindrical fits shall conform to ANSI B4.1, Class FN-1.

6.5 The stubshaft shall be flange mounted on the engine flywheel to accommodate the drive half of the flexible coupling.

6.6 Removable, all-metal, nonsparking, OSHA type coupling guards shall be supplied and mounted. Guards shall be sufficiently heavy and rigid in design to avoid contact with coupling or shaft as a result of bodily contact.

7.0 ELECTRIC MOTORS

7.1 Electric motor shall be specifically listed for firewater pump service and meet the requirements of NFPA 20.

7.2 Motor shall be non-overloading over the full range of the pump performance curve.

7.3 Motor shall be suitable for coastal marine outdoor installation. Motor finish and external hardware shall be able to withstand marine environment.

7.4 The electric motor shall be supplied with space heaters.

8.0 DIESEL ENGINES

8.1 General Requirements

8.1.1 Diesel engines shall be in accordance with the latest DEMA specifications.

8.1.2 The engine shall be a 2 or 4 cycle water cooled diesel design capable of starting at the minimum ambient temperature specified. The engine may be turbocharged.

8.1.3 The engine start shall be by battery powered motor. The electric start may be automatic or manual and the engine stop shall be manual, by switch operation at the local engine control panel.

8.1.4 A tachometer (ST-9011) shall be supplied and mounted on the engine or the pump controller. Its range shall be 0 to 115 percent of rated speed.

8.1.5 Engine speeds shall not exceed 2100 rpm.

8.1.6 The engine shall deliver the rated torque at the rated speed for the site conditions specified, with no negative tolerances allowed.

8.2 Lube Oil System

8.2.1 The engine shall be equipped with a pressurized lubrication system supplying oil to all surfaces requiring lubrication. Circulation shall be by means of a positive displacement pump equipped with an adjustable pressure regulator. The lubrication system shall include a full flow oil filter and a series connected cooler of sufficient size to properly cool full oil flow. All components, including automatic lube oil temperature control, shall be installed, piped, and mounted on the firewater pump skid.

8.2.2 The engine shall be supplied with heaters in the lubricating oil to maintain the oil temperature between 85°F and 110°F with a minimum ambient air temperature of 35°F. The heaters and controls shall be completely wired and shall include a thermostat and contactor.

8.3 Cooling Water System

8.3.1 The engine shall be provided with a heat exchanger mounted on the engine or engine baseplate and cooled by water from the firewater pump discharge, in compliance with NFPA 20. Piping, valves, fittings, and related equipment are to be furnished by SELLER.

8.3.2 Flexible connections shall be provided from pump discharge to the cooling water manifold and from the outlet of the heat exchanger to the waste water piping.

8.3.3 There shall be a sight flow indicator (FG-9018) in the cooling water piping on the outlet of the heat exchanger.

8.4 Electrical System

8.4.1 The engine shall be equipped with a 24 volt DC starting motor and with an alternator and voltage regulator.

8.4.2 Batteries shall be 24 volt heavy duty, truck quality and shall be furnished in dual parallel sets complete with necessary cables and connectors of proper size and length. An AC-powered battery charger shall be furnished by SELLER. Battery sets to alternate on repeated starting attempts until diesel motor starts or 24 volt DC supply is exhausted.

8.4.3 Battery trays (or boxes) shall be provided with a plywood-lined, metal bottom and legs to provide cleaning of surface beneath trays (or boxes).

8.4.4 Boxes shall be constructed of 14 gage minimum sheet steel of ventilated design and with a steel lid. The interior of the box shall be painted with acid-resistant paint. The box shall be primered on the exterior and finished with paint suitable for coastal marine environment.

8.5 Fuel System

8.5.1 The diesel fuel supply tank (T-100) shall be fully furnished by the SELLER. The tank shall be sized to provide a minimum supply of 1.1 gallons of diesel fuel per engine maximum rated horsepower plus 5 percent for sump area and plus 5 percent for expansion area. The tank shall be furnished with legs for floor mounting and with a direct reading level gauge.

8.5.2 Fuel oil filters shall be provided by the engine SELLER.

8.6 Inlet and Exhaust System

8.6.1 The intake air filter shall be of the dry-element type.

8.6.2 A residential type exhaust silencer/spark arrestor with a flexible exhaust connection shall be furnished with the diesel engine. The exhaust silencer shall be properly sized for the engine and shall be complete with companion flanges. Installation of the exhaust silencer and connection to exhaust system will be by BUYER.

9.0 FIREWATER PUMP CONTROLLER (DIESEL ENGINE DRIVE)

9.1 The firewater pump controller shall be specifically listed for fire protection service and shall be built in accordance with NFPA 20 and listed by UL or approved by FM.

9.2 The controller shall be marked "Diesel Engine Fire Pump Controller" and shall show the name of the MANUFACTURER, the identifying designation, and the complete electrical rating.

9.3 Designated auxiliary contacts shall be provided and wired to a dedicated terminal strip. One normally closed and one normally open dry contact shall be furnished for each of the following indications and alarms:

- Engine running
- Engine fail to start
- Common trouble
- Main switch not in auto

9.4 The firewater pump controller shall be of the combined manual and automatic type in a NEMA 4X enclosure, suitable for outdoor installation and arranged for equipment baseplate mounting. Adequate bracing and suitable vibration isolators shall provided by the pump SELLER.

9.5 Control devices required for automatic operation shall be within a locked cabinet. A break glass panel shall be included to provide for unlocking/opening of the cabinet door in case of emergency. The cabinet shall also include, but not be limited to, the following components:

- Main (Hand off-auto) selector switch (HS-9012)
- Pressure switch (PSH/L-9009) for automatic starting of the diesel engine. The pressure switch shall have a calibrated dial adjustment for pressure setting.

- Visual alarms for:
  - Engine fail to start (XA-9011A)
  - High coolant temperature (TAH-9013)
  - Low lube oil pressure (PAL-9018)
  - Overspeed (Shutdown)(SAH-9011)
  - Battery failure (EAL-9011 A/B)
  - Battery charger failure (IAL-9011 A/B)
- Audible common trouble alarm (XA-9013A)
- Dry contacts listed in Section 9.3
- Provision for remote start/stop (1+S-9012C)
- Hour meter or tachometer totalizer (KQ-9011)
- RPM indication (SI-9011)

9.6 SELLER shall provide his standard means of performing control logic. The following shall also be provided if not SELLER's standard:

- A time delay function to allow the electric motor driven jockey pump to start first
- Provisions for automatically alternating dual storage batteries for diesel engine starting and control power
- Intermittent cranking of engine, with lockout, if engine fails to start within 90 seconds

9.7 The controller enclosure shall also include:

- Power on light
- A flow indicator (FI-9019)
- A discharge pressure recorder (PR-9019)
- Low battery voltage switches (ESL-9011 A/B)
- Low battery charger current (ISL-9011 A/B)
- Coolant temperature (TI-9013)

10.0 APPURTENANCES

10.1 SELLER shall furnish skid appurtenances, completely piped, which shall include the following, but not be limited to:

- Orifice meter and flow transmitter for the firewater pump (FE/FT-9019)
- Automatic air release valve for the firewater pump (XV-9016)
- Firewater and jockey pump discharge pressure indicator (PI-9014 and PI-9002, respectively)
- Eccentric tapered pump suction reducers, if required
- Concentric tapered pump discharge increasers, if required
- Jockey pump casing thermal relief valve (PSV-9002)

- Firewater pump suction pressure indicator (PI-9001)
- Firewater pump discharge relief valve (PSV-9014)
- Firewater pump discharge relief valve waste cone (enclosed type) (FG-9014)
- Exhaust silencer
- Jockey pump adjustable run timer

10.2 All pump fittings which are subjected to pump discharge pressure shall be properly ANSI rated.

11.0 JOCKEY PUMP

11.1 SELLER shall furnish a jockey pump as specified on the Data Sheet.

11.2 The jockey pump shall be a rear pull-out, horizontal, single stage, centrifugal type, close coupled to an TEFC motor.

11.3 The jockey pump and controller shall be mounted and completely piped on the firewater pump skid.

11.4 Jockey Pump Controller

11.4.1 The jockey pump unit controller shall be designed for use with firewater systems and shall be UL listed.

11.4.2 The jockey pump controller shall contain the following components, as a minimum:

- Jog-off-auto selector switch (HS-9001)
- High/Low pressure switch (PSH/L-9003)
- Pump running light (XI-9001)
- Power on light
- Control circuit transformer
- Circuit breaker
- Disconnect switch
- Motor starter

12.0 TESTING

12.1 Operational Test

Operational tests, standard for the MANUFACTURER and acceptable to the approving authority (UL and/or FM) shall be performed at the MANUFACTURER's facility. Certified test data to demonstrate that the pump, diesel engine driver and controller are in compliance with this specification and with the applicable codes

controller are in compliance with this specification and with the applicable codes and standards shall be made available to the BUYER upon request. BUYER reserves the right to witness any tests.

12.2 Testing Requirements

12.2.1 Firewater Pumps

Certified hydrostatic test to the pressure specified on the pump data sheet and according to NFPA and UL and/or FM requirements. Certified performance test shall be according to NFPA and UL and/or FM requirements.

12.2.2 Controllers

Certified MANUFACTURER's tests according to UL and/or FM requirements.

12.2.3 Motor Drivers

Certified routine (commercial) test according to NEMA MG-1.

12.2.4 Diesel Engine

Certified MANUFACTURER's performance tests according to UL and/or FM requirements.

12.2.5 Field Acceptance Test (Assembled Unit)

When installation is completed, an operating test shall be made in the presence of the BUYER, representative of the pump MANUFACTURER, and the authority having jurisdiction. Tests shall be per NFPA 20 requirements.

12.3 Test Reports

Certified test reports, test data and curves (where applicable) shall be furnished to the BUYER on all tests covered by the above Sections 12.2.5.

13.0 START-UP

Pump SELLER shall furnish a qualified engineer to supervise field start-up, acceptance testing and adjustment of all equipment.

14.0 IDENTIFICATION AND TAGGING

14.1 Nameplates

14.1.1 A stainless steel nameplate shall be permanently attached to the pump (not on the baseplate) and shall contain the following stamped information:

- Equipment item tag number
- MANUFACTURER's name (stamping optional)
- Serial number of pump
- Size and type of pump
- Rated capacity
- Differential pressure
- RPM
- Maximum allowable casing working pressure at maximum pumping temperature

14.1.2 A direction arrow shall be permanently attached to the pump showing the direction of rotation.

14.2 Marking

14.2.1 Each coupling half and spacer shall be electrically etched with the item number of the purchased pump for which it is intended.

14.2.2 Applicable UL and/or FM approval labels shall be affixed to the various components.

14.3 Tagging

14.3.1 Each item shall be identified with its Purchase Order (P.O.) Number and Item Number. Tags shall be stainless steel and shall be impression stamped with the following:

P.O. No. _____
Equipment Tag No. _____

14.3.2 Tags shall be attached to each components with stainless steel wire. This tagging is in addition to the equipment nameplate. Equipment shipped in fully enclosed containers shall also include the above information marked on the outside of the container.

14.3.3 Miscellaneous parts shall be tagged or marked with the Equipment Item Number for which they are intended.

14.3.4 Equipment containing insulating oils, antifreeze solutions or other fluids shall be prominently tagged at openings to indicate the nature of the contents and any shipping and storage precautions.

15.0 ASSEMBLY AND PREPARATION FOR SHIPMENT

Assembly and preparation for shipment shall be in accordance with SELLER's standards and as noted herein. SELLER shall be solely responsible for the adequacy of the preparation for shipment with respect to materials and application, and for providing equipment at the destination in ex-works condition when handled by commercial carriers.

15.1 Equipment Train Assembly

15.1.1 Pumps, drivers and all furnished appurtenances shall be shipped fully assembled on the baseplates, except as noted below. Coupling spacers with bolts and other items, such as minimum flow orifices which are not part of the pumping unit assembly, shall be separately boxed and securely attached to the baseplate.

15.1.2 Separate shipment of major components requires BUYER's prior authorization.

15.1.3 Metal filter elements and screens shall be cleaned and reinstalled prior to shipment. Nonmetallic filter elements shall be supplied installed in an unused condition.

15.2 Painting

15.2.1 Stainless steel surfaces, internal surfaces and finished surfaces, such as flange faces, shafts and couplings, shall not be painted.

15.2.2 External surfaces of pumps, drivers, baseplates, accessories and piping, except as noted in Paragraph 15.2.1, shall be painted prior to being shipped from the SELLER's shop. SELLER's standard surface preparation and finish is acceptable, unless otherwise specified on the Data Sheets.

15.3 Preservation

15.3.1 Bearings, bearing housings and oil systems shall be thoroughly cleaned and coated with a suitable rust preventative.

15.3.2 Surfaces contacted by the pumpage or working fluid, including stuffing boxes and flush piping, shall be thoroughly dried. Surfaces which are subject to atmospheric corrosion or rusting shall be coated with a suitable rust preventative.

15.3.3 External, non-painted surfaces (except austenitic stainless steel), including bolting and flange faces, shall be coated with a suitable rust preventative.

15.3.4 Exposed shafts and shaft couplings shall then be wrapped with waterproof, moldable, waxed cloth or barrier type VPI paper. The seams shall be sealed with adhesive tape.

15.3.5 Each engine and auxiliary system shall be drained of coolant and prepared for shipment. Warning tags indicating the engine is dry shall be attached.

15.3.6 Desiccant or vapor phase inhibitor shall be placed in spaces where condensation might occur. Closure covering shall be clearly marked to show amount and type of material in interior so that it may be recovered prior to placing in service.

15.4 Openings

15.4.1 All threaded openings shall be plugged with long shank pipe plugs. Plug material shall be equivalent to the material being plugged, except that carbon steel plugs shall be used with openings in cast iron.

15.4.2 Flanged openings shall be greased and provided with full flange diameter protective covers in accordance with A or B below:

A. Metal closures shall be 3/16 inch minimum thickness with full diameter rubber gaskets and at least four full diameter bolts.

B. Cover material shall be 1/4 inch (minimum) thick, low density "Poly-Foam" polyethylene plastic flange guard. Flanges 16 inches and larger shall use two 1/4 inch guards. Flange guards shall be held in place by metal bolts in every other bolt hole (minimum four plugs).

15.5 Packing

15.5.1 All equipment shall be packed, securely anchored (skid mounted, when required), and protected for domestic shipment by rail or truck. All

unmounted parts, except drivers, shall be suitably boxed and firmly attached to the main item for shipment.

15.5.2 One complete set of Installation, Operating, and Maintenance Instructions for pumps, drivers and controllers shall be packed and shipped with the equipment. These sets of instructions are in addition to the number of sets specified on Form E-212, "Vendor's Drawing & Data Commitment". which are to be sent directly to the BUYER.

16.0 DRAWINGS AND DATA REQUIREMENTS

All SELLER drawings, data submittals and other documentation shall be furnished according to Form E-212.

17.0 QUALITY ASSURANCE

The complete pumping assembly and all control equipment shall be guaranteed in writing for pressure, capacity, and power consumption as required by NFPA 20.

Hunt Research Corporation

JAMES W. HUNT, President

November 9, 1993

Tom Poe, Fire Marshal
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648

In Re: Shell Swepi Project

Dear Tom:

I have reviewed the submittal drawing package dated 10/26/93. The scope of this package is limited to the proposed Firewater system layout for the facility. This submittal is required by the Fire Protection Plan, Section 5.1.6. I have the following comments:

Part 1; General Comments:

a. Locations of monitors and hydrants appear satisfactory. One isolation valve needs to be added in the Stretford area.

b. Location of some P.I.V.'s are not satisfactory. Certain P.I.V.'s are shown in middle of a road. They should be on the opposite side of the road from the system which they supply. See sheet by sheet comments beginning on Page 5.

c. Main sizes are not shown. They should be shown for clarity. Minimum main size is to be 8", with hydrant and monitor laterals 6" or larger.

d. The manufacturer and model number of the hydrants, monitors, hose reels, quadramese's, foam systems, fire pump, fire alarm panel, etc., will need to be submitted. Such submittals are required per the Fire Protection Plan, Section 5.1. All such equipment shall be UL listed or FM approved for Fire Protection service, when such listings or approvals exist for the type of equipment (per Section 5.0 of the Fire Protection Plan). Data regarding the fire pump and appurtenances, as well as installation drawings, will be needed.

POST OFFICE BOX 291 • SOLVANG, CALIFORNIA 93464
PHONE: (805) 688-4625 • FAX: (805) 688-0275

e. Design and calculations for water spray and foam systems shall be submitted for review per Sections 5, 28 and 29 of Fire Protection Plan.

f. The major issues with this submittal surround the proposed use of existing and new unlined steel fire mains. The Fire Protection Plan, Section 5.1.8 and 5.1.10, requires such mains to be internally lined and externally coated. NFPA 24 "Private Fire Service Mains" requires this per Section 7-2. Fire Protection Plan, Section 28 cites this standard as applicable. The American Water Works Association also recommends against the use of unlined steel water mains.

The purpose of the lining requirement is to prevent corrosion and tuberculation within a fire main. Tuberculation results in a reduction of inside diameter with a resultant loss in flow capacity.

Corrosion can lead to failure of the pipe. Unlined steel is vulnerable to attack by certain types of water ("hungry" water), which will eat away at the steel. I have personally observed this at a new oil and gas plant which has unlined steel fire mains, utilizing distilled water from an onsite water plant. Such destructive process can result in the plugging of orifices and failure of pipe.

The downside of lining steel pipe with cement mortar is that flaking and "holidays" can occur at joints if installation is not properly done. However, there are various alternative linings (i.e. epoxy) available, and there are techniques available to line pipe in place.

Shell apparently also wishes to utilize 5,600' of existing unlined 12" steel pipe. Shell says that use of this existing line will save $1mm.

In order for the Fire Department to grant a variance for the existing line (should you wish to), the following should be provided by Shell:

1. Age and condition of pipe.

2. Actual fire flow test results which include static PSI, observed flowing PSI and observed flow (GPM) at the furthest point. Calculation as to available flow at 20 PSI should also be provided.

3. Hydrostatic test.

4. "Photo" of exterior and interior cross section of the pipe to ascertain current condition.

5. A certified laboratory test of water which has flowed through the pipe. (Baseline sample from water source would also be needed.)

Assuming that the test results and pipe conditions were acceptable to the Fire Department, then Shell should be required to do the following:

1. Install corrosion monitoring system.

2. Hydrostatically test the line every 5 years.

3. Install a "side stream" inspection piece aboveground so that the Fire Department could unlock and remove a section of pipe annually to inspect it's condition.

4. Annual flow test to assure needed fireflow and PSI is available, in all areas of the plant (2500 GPM at 100 PSI flowing PSI at the most remote location). Such flow test should include a water sample.

5. Pig the line annually.

If at any time, the results of these tests and inspections prove unsatisfactory, Shell should agree to replace the pipe or line it in place

Regarding the use of new unlined steel pipe, there would need to be a major reason for the Fire Department to grant a variance from NFPA 24 for use of new unlined steel underground fire mains. Assuming proper installation and connections, lined steel is preferable to unlined steel from a fire protection standpoint. Approved plastic, underground fire service mains (Blue Brute, etc.), are widely used and should be considered for this facility.

Part 2: Detailed comments; Fire Protection Plan "Addenda":

Section 5; Page 2 (Fire Protection Summary):

1. This summary should be clarified as discussing fixed systems only, as it does not discuss the provision of monitors, hydrants and hose reels.

2. Area #2 (Oil Plant) Page 3:

   Foam density is listed as .16 GPM/sq'. However, Fluer Corp's conference notes dated 7/21/93, Page 2, state density of .10 GPM/sq'. Clarification needed. We assume the density stated in this addendum applies. Also, conference notes lists quantity of foam to be 200 gallons. This is not correct based upon the .16 density, duration and the Fire Protection Plan.

3. Area #3 (Page 4):

   Fireflow calculation says 1,000 GPM for monitors. No monitors are shown on Drawing #078-91-009-D for Area #3 (hydrants are shown).

4. Addenda Approval (Item 10, Page 5):

   States that this document shall serve as the official Fire Protection Plan. This statement is not correct as this is only an addendum to the official plan.

Detailed Comments; Water System Drawings Dated 8/20/93:

1. Sheet 078-92-009-C (Fire Pump Area):

   a. Backflow device to be UL listed/FM approved and have OS&Y valves chained open.
   b. New main shall comply with NFPA 24 (plastic or lined/coated steel, etc.).
   c. Isolation valves shown upstream and downstream of fire pump should be OS&Y or have P.I.V.'s.
   d. Fire Department connection to be UL listed or FM approved.
   e. Fire alarm panel to be listed or approved, and shall be a lighted annunciator with graphics to approval of Fire Department. Panel is also

required at second entrance.

f. Main sizes should be indicated on drawing.

g. Fire pump and system must demonstrate 2,500 GPM at 110 PSI at all portions of system including the nozzle PSI at most remote monitors.

h. Pump data and listing shall be submitted to Fire Department, as well as installation drawings.

2. Sheet 078-91-009-B (Tank Farm #1):

a. Move P.I.V., near foam system, out of road.

b. Indicate main sizes, on drawing.

c. Detailed plans and calculations shall be submitted for foam system.

d. Plans and specifications needed for hydrants, monitors and reels.

3. Sheet 078-91-009-A (DCU/Ground Flare):

a. Show main size, on drawing.

b. Move P.I.V.'s, serving the water spray systems, to opposite side of road, and away from the road.

c. More detail will be needed on location, etc., of quadramese in relation to city main on Palm and Cherry Hill.

d. Design and calculations needed for water spray systems. Deluge valves should be located in an area safely accessible in a fire situation, 50' from the protected equipment is preferred. Valves shown appear too close.

4. Sheet 078-9-009-D (Stretford Unit):

a. Addendum refers to monitors. No monitors shown. These should be monitor/hydrants.

b. Add isolation valve on north side of main at tee to hydrant on south side.

General Notes:

All laterals to hydrants in this facility to have isolation valves. Monitors shall have approved operating valves. Fire equipment near roads shall be protected by approved crash posts, per Section 5-1.9 of Fire Protection Plan.

Applicant will need to demonstrate compliance with Uniform Fire Code for spill control, containment and drainage for caustic storage tank T-5, and any other vessels or tanks with flammable, combustible or hazardous liquids.

We should visit the site this month to verify proposed locations of fire protection equipment. We will arrange the date and time via phone.

If you have any questions, please let me know.

Sincerely,

Jim Hunt

JH/co

SWEPI
Huntington Beach
Gas Processing Projects

FLUOR DANIEL, INC.
Bakersfield, CA
Contract No. 424601

SPECIFICATION SP-575701-80-05

FIREPROOFING OF VESSELS AND EXCHANGERS

The attached specification, revised as indicated below, is issued herewith. If this is a later revision than now in your possession, please destroy previous issue.

Revision No.	0	Date	07/14/93	Pages	ALL
Revision No.	1	Date	10/28/93 MG	Pages	1
Revision No.		Date		Pages	
Revision No.		Date		Pages	
Revision No.		Date		Pages	
Revision No.		Date		Pages	

Note: New issue X

Revised sheets only attached _____

Entire specification reissued _____

Prepared by: MARK GARCIA

Date: 07/14/93

Approved by Fluor Daniel:

Date: 10/2/93

Approved by SWEPI:

Date: 11/5/93

SPECIFICATION SP-575701-80-05

FIREPROOFING OF VESSELS AND EXCHANGERS

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SPECIFICATION SP-575701-80-05

FIREPROOFING OF VESSELS AND EXCHANGERS

1.0 GENERAL

1.1 Scope

⚠1

1.1.1 This Specification prescribes the procedures for selection and application of field applied, external, fireproofing insulation and weatherproofing to specified propane containing vessels and exchangers (V-801, V-802, and E-604). The resulting insulation system shall be capable of maintaining mechanical integrity during two hours of fire exposure, including impingement of firewater spray.

1.1.2 Wherever a difference exists between this specification and the drawings, the drawings shall govern. However, no deviations shall be made from this Specification without written authorization from BUYER.

1.2 Definitions

BUYER: Shell Western E&P Inc. (SWEPI) or SWEPI's authorized representative.

CONTRACTOR: The corporation, partnership or individual contracted to provide on site construction services, materials and/or fabrication in accordance with this Specification and referenced documents.

MANUFACTURER: The original FABRICATOR of the equipment or material.

INSULATION CODE: Vessels and exchangers shall be fireproofed and insulated when indicated on the MFD's (Mechanical Flow Diagrams) and UFD's (Utility Flow Diagrams). Drawings will be coded as follows:

Insulation Code	Definition
IF	Insulate for fire protection

BLOCK: The term "block" (called "board" by some suppliers), as used in this Specification, refers to rigid insulation supplied in molded radius blocks.

1.3 Work Not Included

1.3.1 Low temperature thermal insulation ranging from minus 150°F to ambient shall be included in Specification SP-575701-80-03, Cold Insulation.

1.3.2 Intermediate and high temperature insulation from ambient to 1500°F shall be included in Specification SP-575701-80-04, Hot Insulation.

1.4 System Description - Design Requirements

1.4.1 Thickness of insulation for vessels and equipment shall be two (2) inches of Pabco Super Caltemp 1500 "Quad" block calcium silicate insulation, or BUYER approved equivalent. Alternative insulation shall yield an "Environment Factor" (F) no greater than 0.06 based on the following equation from API Recommended Practice 520, 5th edition, p. 61:

$$F = \frac{k(1660 - T_f)}{21,000\,t}$$

Where:

t = Insulation thickness (inches)
k = Insulation thermal conductivity evaluated at mean temperature of 904°F
T_f = Equipment contents temperature at relieving conditions (°F) = 148°F

1.4.2 Painting of vessels and exchangers will be by others and will be in accordance with Specification SP-575701-80-01.

1.4.3 It is intended that pressure tests will be completed by BUYER before insulation is installed. If insulation is applied before testing, all welds, threads, and bolted connections shall be left uninsulated and exposed until completion of testing. Exposed insulation shall be weatherproofed to prevent ingress of moisture prior to pressure testing.

1.4.4 Insulation supports required on vessels and exchangers will be supplied by BUYER. No welded attachments shall be made to vessels and exchangers without prior written authorization from BUYER.

1.4.5 Preformed fireproofing insulation shall be used on specified propane containing vessels and exchangers.

2.0 CODES, STANDARDS AND REGULATIONS

The publications listed below form part of this Specification. Each publication shall be the latest revision and addendum in effect at the time of Purchase Order issue. Except as modified by the requirements specified herein or the details of the drawings, work included in this Specification shall conform to the applicable provisions of these publications.

API (American Petroleum Institute)

API-RP550	Sizing, Selection, and Installation of Pressure-Relieving Devices in Refineries

ASTM (American Society for Testing and Materials)

ASTM C533	Specification for Calcium Silicate Block and Pipe Thermal Insulation
ASTM C1094	Specification for Removable Covers
ASTM E84	Water Vapor Transmission of Materials in Sheet Form
ASTM E96	Surface Burning Characteristics of Building Materials
ASTM E119	Fire Exposure Test

Underwriters Laboratories

UL 1709	Underwriters Laboratories Hydrocarbon Fire Exposure

Specifications

SP-575701-80-01	Painting of Equipment, Piping and Miscellaneous Steel

3.0 PRODUCTS

3.1 General - Materials

Acceptable Basic Materials - Vessels and Exchangers

3.1.1 All insulation materials and accessories shall conform to the regulations of the OSHA (Occupational Safety and Health Administration).

3.1.2 When the installation or use of fireproofing insulation materials, accessories, and systems may pose safety or health problems, CONTRACTOR shall provide BUYER with appropriate current information regarding known problems associated with the recommended use of the MANUFACTURER's products and shall also recommend protective measures to be employed in their safe utilization. CONTRACTOR shall establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.

3.1.3 Insulation and accessory materials shall not contain asbestos in any form. This requirement shall be maintained without exception.

3.1.4 The basic fireproofing insulation materials for vessels and exchangers shall be formed in cylindrical sections, one piece or half sections, depending upon size and commercial availability.

3.1.5 Rigid block insulation shall be used on heads of vessels and exchangers.

3.2 Insulation Materials

3.2.1 Acceptable insulation system materials and suppliers shall be those listed herein. Materials equal or superior to those described may be used with prior written concurrence of BUYER. Engineering data and user references for the evaluation of alternative materials shall accompany proposals. BUYER shall be sole judge of suitability of alternative materials.

3.2.2 Materials for insulation systems shall be suitable for the metallurgy of the insulated equipment and other components of the insulation system which they contact.

3.2.3 **Recommended Materials**

A. Blocks

Calcium Silicate:

- Pabco Super Caltemp 1500 "Quad" Block
- Or BUYER approved equal

B. Insulating Cement

Mineral wool base filler for cracks, voids, and joints between blocks:

- Eagle Picher Super 66
- Manville 460
- Or BUYER approved equal

C. Weatherproof Coating

For vessel head within skirt

- Eagle Picher One Cote
- Keene Super Power House
- Manville 375

3.3 Jacketing Materials

3.3.1 Jacketing material shall be selected based on ability to withstand firewater impingement, code requirements, environmental considerations, maintenance requirements, and aesthetics.

3.3.2 **Stainless Steel Jacketing - Type 316**

A. For vessel and exchanger heads: Smooth, 0.019 inch, mill finished, cut and machine rolled section.

B. For vessel and exchanger shells: Smooth, 0.019 inch, mill finished, cut and machined rolled section.

3.3.3 All metal jacketing systems shall have a moisture barrier to prevent galvanic corrosion at the metal-to-insulation interface of the jacket and the piece of equipment. Moisture barriers shall be factory-applied to the underside of the metal jacket.

3.3.4 Jacketing shall be secured with stainless steel bands and screws so that insulation can easily be removed for inspection of corrosion.

3.4 Standard Accessory Material

3.4.1 Flashing/caulking compound shall be nonshrinking, permanently flexible, metallic gray, 94 percent nonvolatile, with a water vapor permeability of 0.008 as specified by ASTM E96, for service from minus 100 degrees F to 300°F.

3.4.2 Banding shall be fabricated from 3/4 inch by 0.020 inches thick, AISI Type 304 soft annealed stainless steel material.

3.4.3 Banding seals shall be heavy duty 18-8 Cr-Ni stainless steel, AISI Type 302 or 304, T-5005 hard temper, wing-type, 0.032 inches thick.

3.4.4 Screws shall be self-tapping, slotted, hex head, sheet metal, 304 stainless steel, number 8 by 1/2 inch long.

3.4.5 Wire shall be 0.0625 inches (16 gauge) diameter, 304 stainless steel, annealed temper, to secure block insulation prior to jacketing.

3.4.6 Floating ring shall be 1/4" stainless steel type 316 annealed rod.

3.5 Removable and Reusable Jacketed Covers

3.5.1 Equipment with irregular or complex surfaces such as manways or inspection openings that require regular inspection and maintenance shall be insulated with removable and reusable jacketed covers.

3.5.2 Removable covers shall be designed to provide the following qualities:

- Insulation integrity
- Accurate fit
- Ease in removing and replacing
- Adaptability to field conditions and interferences
- Neat appearance consistent with adjacent insulated systems

4.0 APPLICATION OF INSULATION

4.1 General

4.1.1 Block insulation on vessels and exchangers shall be applied with staggered joint arrangement. Top and bottom edges shall be securely tied over support rings with wire on 12 inch centers. Insulation shall then be secured in place with band loops spaced on 12 inch centers.

4.1.2 Heads shall have the insulation shaped so that all sections closely fit the contour of the head and are laced together with wire or are secured with bands on 12 inch centers at tangent line. Insulation for exposed heads shall be secured with banding attached to a 1/4 inch round stainless steel rod, as a floating ring on the top and a circumferential band at the tangent line of the vessel head as per Attachment 3.

4.1.3 Insulation and jacketing around structural support attachments on vessels and exchangers shall be closely fitted and sealed around such objects. Insulation voids in these areas shall be filled with insulating cement.

4.1.4 Care should be taken to avoid contact between dissimilar materials which might cause galvanic corrosion.

4.1.5 All cracks, voids, and joints in the block insulation surface shall be filled with insulating cement either troweled or palmed on after wires or bands are installed.

4.2 Jacketing

4.2.1 Weatherproof covering on straight fireproof insulated vessels and exchangers shall be stainless steel jacketing machine rolled to the OD of the insulation and fitted snugly over insulation. Joints shall be lapped a minimum of three inches (circumferentially and longitudinally) and arranged to shed water and secured with bands.

4.2.2 Each section of jacketing on vertical vessels shall be supported from the next lower section with "S" clips made from the banding material. Longitudinal joints on vertical jacketing shall be staggered.

4.2.3 Stainless steel jacketing on horizontal vessels and exchanger shells shall be fitted snugly to the insulation and both longitudinal and circumferential joints shall be lapped a minimum of three inches and arranged to shed water as per Attachment 1.

4.2.4 Vessels heads within skirts shall be insulated and covered with a weatherproof coating as per Attachment 2.

4.2.5 Exposed vessel heads shall be insulated and jacketed as specified in Section 3.3. Gored head sections shall be overlapped a minimum of two inches and fastened with stainless steel sheet metal screws on three inch centers. All seams shall be lapped to provide maximum weather protection as per Attachment 3.

4.3 Vessels and Exchangers Fireproofing Insulation

4.3.1 Vessels and exchangers shall be fireproof insulated where indicated by insulation code **IF** on the Mechanical Flow Diagrams.

4.3.2 Fireproofing insulation thickness shall be in accordance as specified in Section 1.4.

4.3.3 Nameplates shall not be insulated.

4.3.4 Manhole covers on vessels and exchangers shall be fireproof insulated with removable covers. Covers shall be furnished with jacketing as specified in Section 3.5..

4.3.5 On horizontal vessels and exchangers, jacketing shall be secured with bands spaced on 12 inch centers. Horizontal seams shall have stainless steel screws on six inch centers.

4.3.6 A total of four inspection openings shall be provided for each vessel and exchanger. Inspection opening shall consist of a three inch square removable piece of block insulation with a nine inch square stainless steel jacket as per Attachment 5. Location of openings will be specified at a later date prior to any insulation work.

4.4 Removable and Reusable Jacketed Covers

4.4.1 Covers shall be designed with a minimum number of pieces. Covers shall overlap adjacent insulation by two inches and must be designed to prevent air movement behind the insulating covers. Covers shall be secured to adjacent jacketed insulation with (minimum four) stainless steel screws.

4.4.2 Covers shall be designed from actual field measurements to ensure proper fit and design as per Attachment 4.

5.0 EXECUTION

5.1 General

5.1.1 Scope of work, general terms and conditions, and MANUFACTURER's recommended installation instructions for fireproofing insulation shall be considered as supplemental to the requirements of this specification.

5.1.2 All applications of insulation shall be in strict accordance with these specifications. CONTRACTOR shall submit for BUYER's approval any materials, insulation details, or intended practices of insulation application not covered in this Specification. Omission of details from these Specifications shall not relieve CONTRACTOR from the obligation

to supply a properly designed installation in accordance with current acceptable construction practices.

5.1.3 Where brand or trade names are mentioned herein, they are for the purpose of identifying general types of acceptable materials. Products offered as "equal " will be acceptable after information is submitted to and approved by BUYER. Written acceptance in Purchase Order shall constitute approval.

5.1.4 All materials shall be new, the best quality of the respective types, and suitable for the intended service.

5.1.5 Craftsmen regularly engaged in the insulation industry shall install the fireproofing insulation. The quality of workmanship shall be the best obtainable. Finished work shall be uniform and neat in appearance. All installation procedures shall follow good and acceptable insulation practices for the particular service.

5.2 Submittals

5.2.1 Product Data

Submit the MANUFACTURER's specifications and installation instructions, including data substantiating compliance with specified requirements, to BUYER for review.

5.2.2 Samples

Submit one sample of specified or equal fireproofing material indicating density, porosity, temperature rating, ASTM E 119 Fire Exposure Test data and finish texture for BUYER review.

5.2.3 Material Safety Data Sheet

Submit all applicable MSDS (Material Safety Data Sheet) forms to BUYER for review.

5.3 Quality Assurance

5.3.1 CONTRACTOR shall have no fewer than two years of experience installing fireproofing insulation.

5.3.2 CONTRACTOR shall provide BUYER with a signed and dated certification specifying what vessels and exchangers were provided with fireproofed

insulation. Thickness, UL design number, and UL rating shall also be on the certificate.

5.4 Product Delivery and Handling

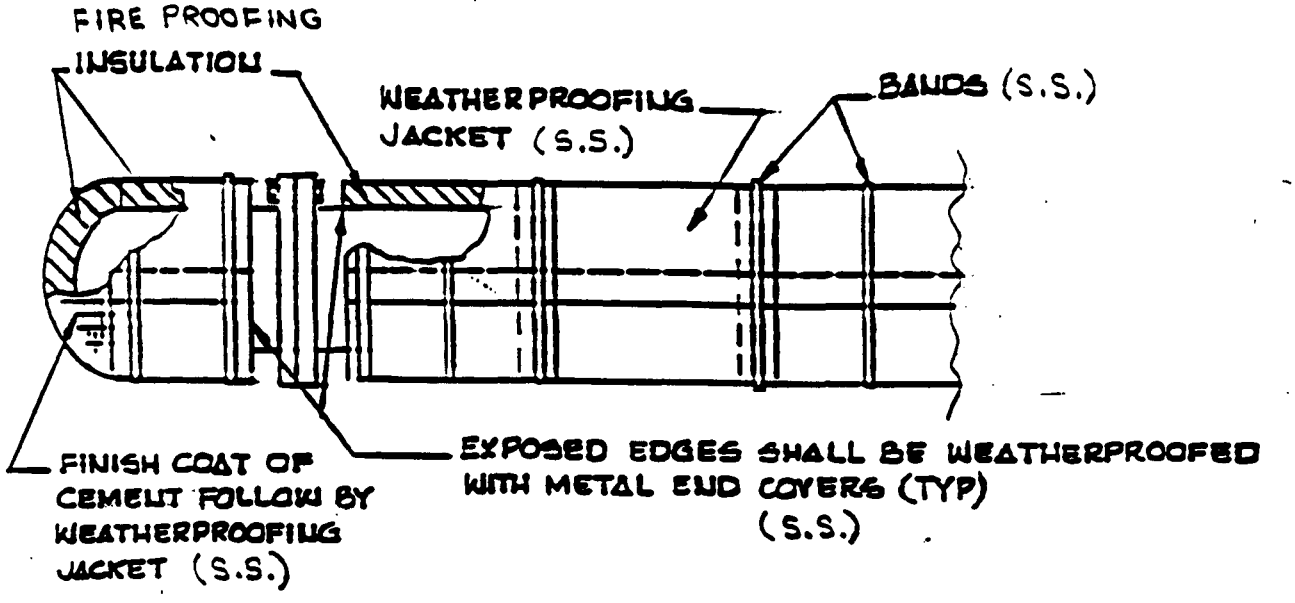
Deliver, store, and handle materials in accordance with the MANUFACTURER's recommendations, and prevent intrusion of moisture and foreign material.

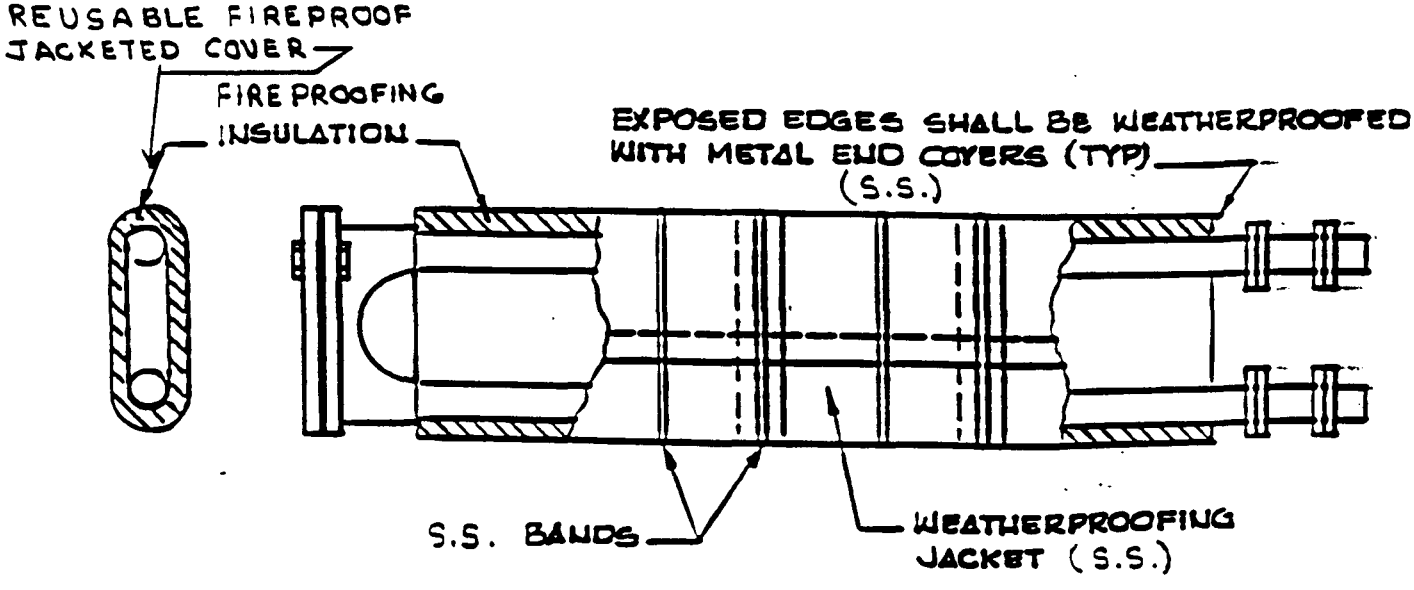
6.0 ATTACHMENTS

Attachment 1	Detail for Shell and Horizontal Vessels
Attachment 2	Vessel Fireproof Insulation, Support Ring, Weatherproofing, and Bottom Head Details
Attachment 3	Detail for Vessel Fireproof Insulation Support, Flashing and Weatherproofing
Attachment 4	Detail for Removable and Reusable Jacketed Covers
Attachment 5	Detail for Removable and Reusable Inspection Openings

ATTACHMENT 1

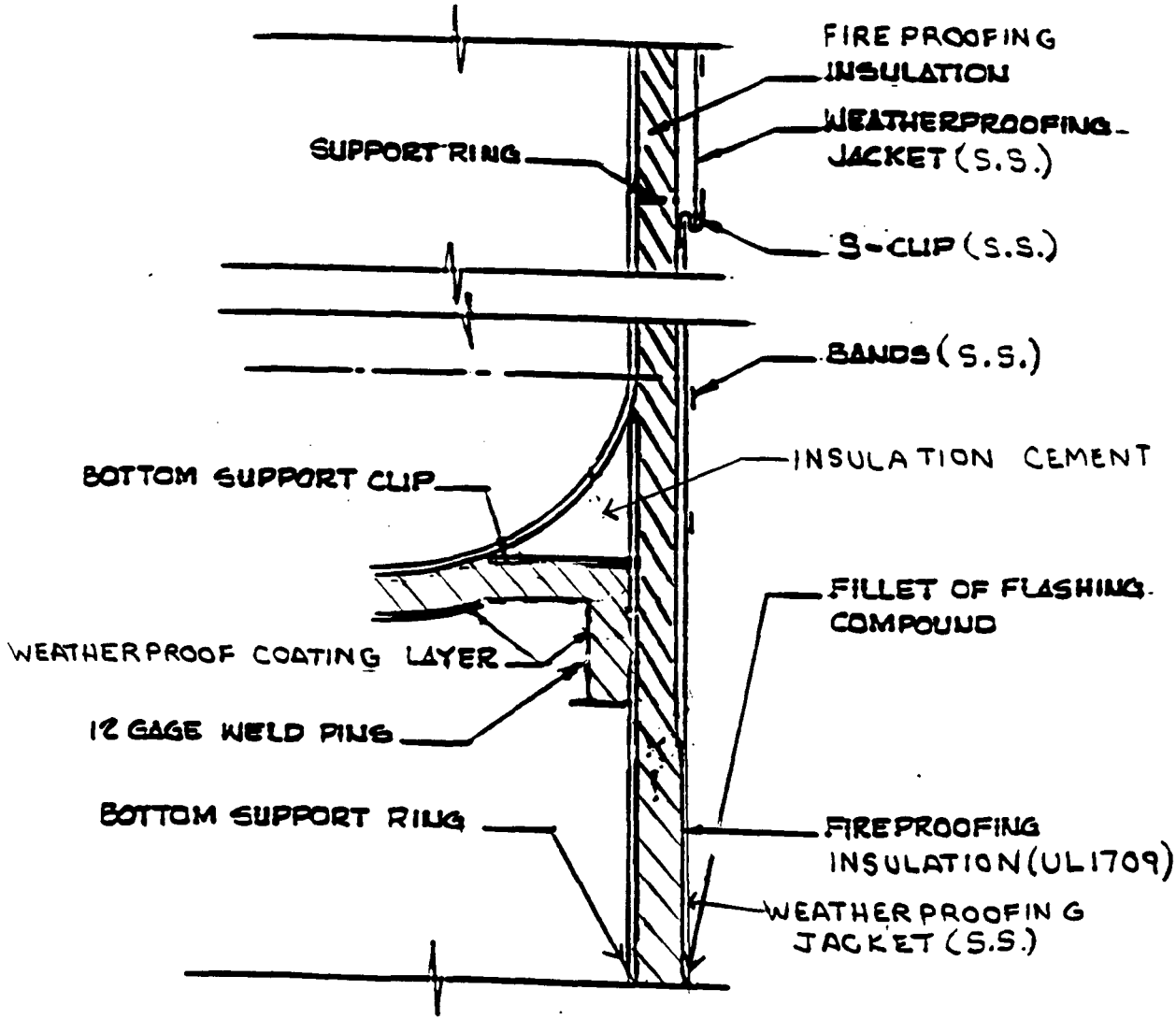
DETAIL FOR SHELL AND HORIZONTAL VESSELS





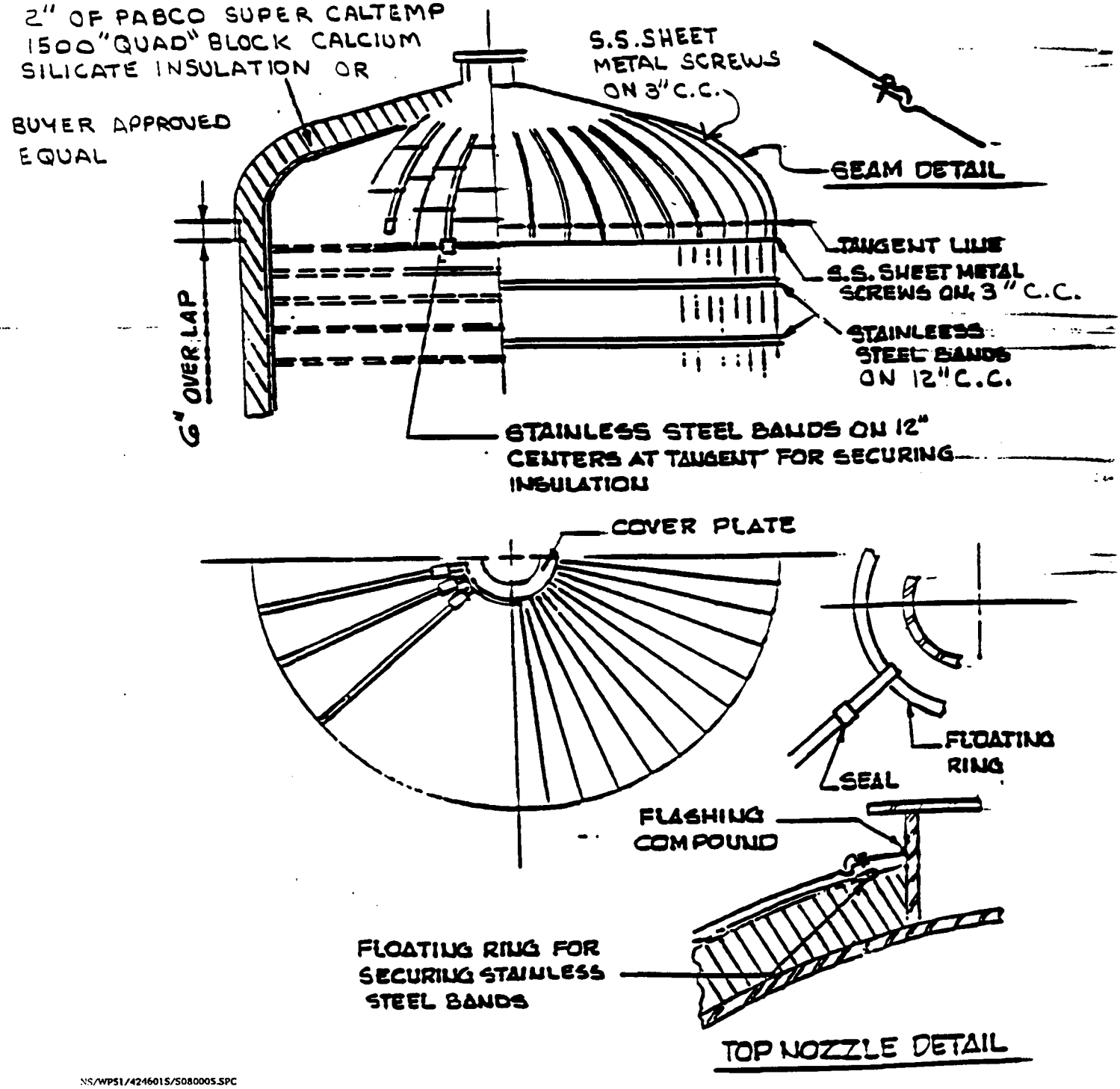
ATTACHMENT 2

VESSEL FIREPROOF INSULATION, SUPPORT RING, WEATHERPROOFING, AND BOTTOM HEAD DETAILS



ATTACHMENT 3

DETAIL FOR VESSEL FIREPROOF INSULATION SUPPORT, FLASHING AND WEATHERPROOFING

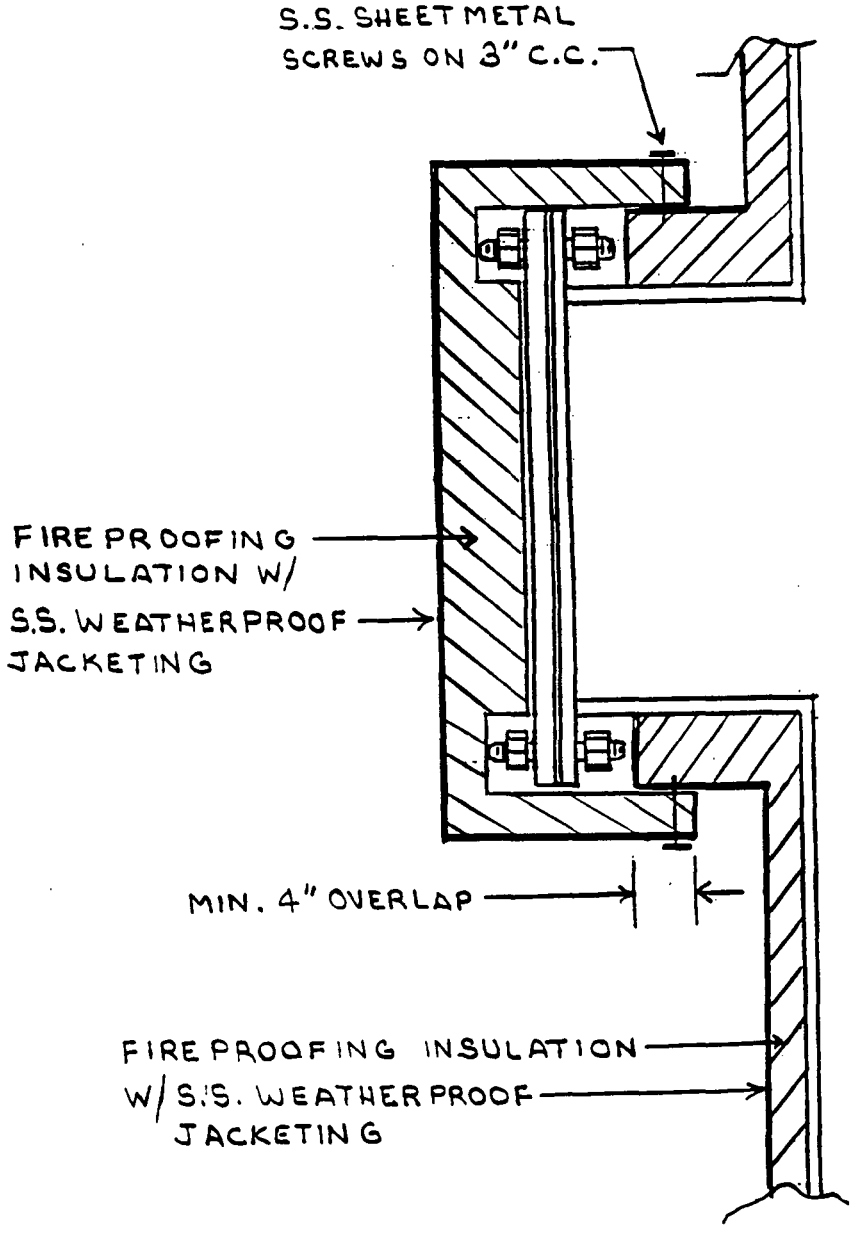


FIREPROOFING OF VESSELS AND EXCHANGERS
(Continued)

SP-575701-80-05

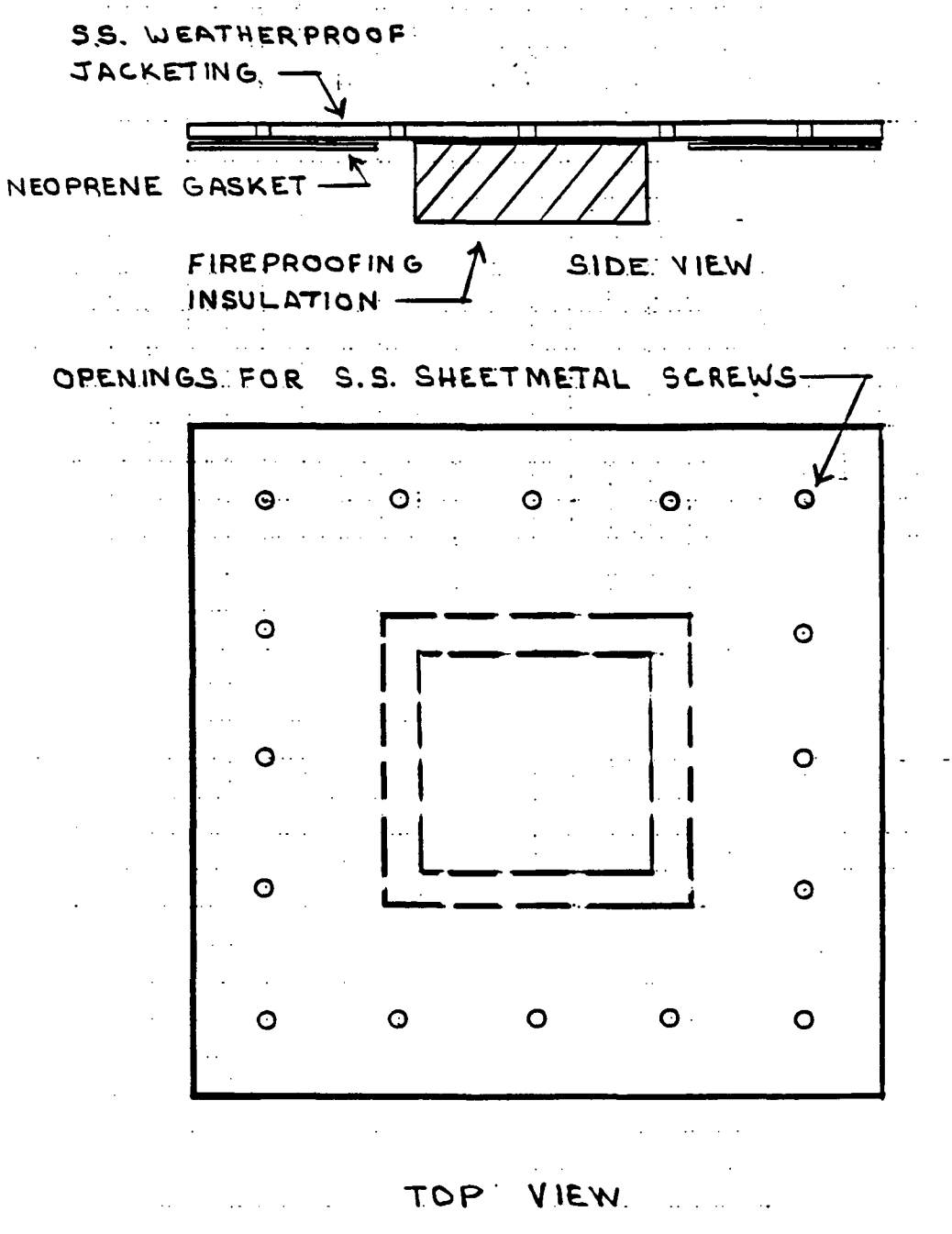
ATTACHMENT 4

DETAIL FOR REMOVABLE AND RE-USABLE JACKETED COVERS



ATTACHMENT 5

DETAIL FOR REMOVABLE AND RE-USABLE INSPECTION OPENINGS



Shell Western E&P Inc.
An affiliate of Shell Oil Company

PO Box 11164
Bakersfield CA 93389-1164

October 26, 1993

Mr. Thomas F. Poe
Fire Marshal/Division Chief
City of Huntington Beach Fire Department
2000 Main Street
Huntington Beach, CA 92648

Dear Chief Poe:

SUBJECT: FIRE PROTECTION PLAN ADDENDUM-HUNTINGTON BEACH

Considerable design effort has been underway since our last meeting, and the purpose of this letter is to give you an update as to the Fire Protection Status, and the overall project status. Both are proceeding according to plan, and schedule.

Attached are:

(1) Meeting Notes for our July 16,1993 meeting.
(2) A copy of the revised Fire Protection Plan addenda for your Approval. Please return one executed copy.
(3) Revised Piping Transpositions resulting from our meeting.

Fire Protection System:

The Fire Protection System is designed to supply 2500 gpm to all areas of the plant for firefighting use, supplied by a new diesel fire water pump. The design basis flow shall be provided with 100 psi available at the fire water monitors. We are currently working with Public Works to secure a 12" water service at the intersection of Goldenwest and Pacific Coast Highway. The secondary source requested will be supplied by our existing 8" connection at Cherry Hill. Fire Department connections will be provided at both locations to allow connection of a pumper truck.

We have complied with the requirements discussed at the meeting, but are seeking relief from the requirement in the Fire Protection Plan for internal cement lining of piping. The hydraulic calculations indicate that a minimum 12" main will be required to meet the water flows required by the HBFD. We intend to use an existing 12" that is not internally coated, but offer in mitigation to hydrostatically test this line on a biannual basis, and institute a corrosion monitoring/testing program for this system. Use of this existing line will result in a project savings of $1MM. We have committed in the past to hydrostatically, and non-destructively test any existing piping that is used in this project.

Within four weeks we will be sending to your and Mr Hunt's attention drawings/ specifications/design details for your review/comment/approval per the Fire Protection Plan.

Overall Project:

Engineering is essentially 80% complete, and major equipment is on order. We are securing the necessary authorities for construction from the South Coast Air Quality Management District, and plan to begin requesting building permits within the next 60 days. Construction is anticipated to begin in December 1993, and we will complete the project by December 1994. The demolition of the existing Gas Plant #11 will begin June of 1994.

The project will be conducted in phases:

(1) The construction and operation of the Ground Flare, which is a device similar to the one located in the parking lot at City Hall.
(2) Shutdown, secure, purge, and demolish the existing plant.
(3) A parallel effort for construction of the new facility.
(4) Site remediation and closure of the existing site.

An onsite qualified archeologist will monitor all initial grading activities associated with the removal of the existing Gas Plant #11, and a closure plan will be submitted to the Huntington Beach Fire Department, and the State Department of Oil & Gas for approval as per the conditions of our Negative Declaration.

If you have any questions or need any additional information, please contact me at (805) 326-5072.

Shell appreciates the City of Huntington Beach Fire Department's continued support and cooperation on this project with our common goal of Safety.

Best Regards,

James F. Langer, P.E.
Project Manager
Huntington Beach Gas Plant Project
Coastal Asset

JFL:yh

Attachments

cc: Mr. James Hunt
President
Hunt Research Corporation
P. O. Box 291
Solvang, CA 93464

SPECIFICATION SP-575701-49-07

FOAM/WATER FIRE EXTINGUISHING SYSTEM

The attached specification, revised as indicated below, is issued herewith. If this is a later revision than now in your possession, please destroy previous issue.

Revision No.	0	Date	09/13/93	Pages	ALL
Revision No.	1	Date	09/27/93	Pages	ALL
Revision No.		Date		Pages	
Revision No.		Date		Pages	
Revision No.		Date		Pages	

Note: New issue X

Revised sheets only attached

Entire specification reissued

Prepared by: G. MONTEATH

Date: 09/13/93

Approved by Fluor Daniel:

Date: 10/18/93

Approved by SWEPI:

Date: 10/18/93

SPECIFICATION SP-575701-49-07

FOAM/WATER FIRE EXTINGUISHING SYSTEMS

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SPECIFICATION SP-575701-49-07

FOAM/WATER FIRE EXTINGUISHING SYSTEMS

1.0 GENERAL

1.1 Scope

This specification, when accompanied by the BUYER's drawings and specifications, covers the requirements for the design, materials, fabrication, installation, inspection and testing of the Foam/Water Fire Extinguishing System.

1.2 Definitions

For the purposes of this specification, the following definitions apply:

BUYER: Shell Western E&P Inc. (SWEPI) or SWEPI's authorized representative.

SUPPLIER: The vendor selected by BUYER to engineer, supply and install equipment, in accordance this specification and referenced documents.

CONTRACTOR: The corporation, partnership or individual contracted to provide on-site construction services, materials and/or fabrication in accordance with this specification and referenced documents. CONTRACTOR shall be a licensed California contractor experienced in the installation of foam systems which meet the requirements of NFPA 11 and 13.

MANUFACTURER: The original fabricator of the equipment or components described in this specification and referenced documents.

FABRICATOR: The corporation, partnership or individual contracted to perform services to produce a specific product normally remote from jobsite, as described in this specification and referenced documents.

2.0 APPLICABLE CODES, STANDARDS AND REFERENCES

The equipment, materials, and/or design requirements covered by this specification shall be in accordance with the latest issue of the following referenced specifications, codes, and standards unless a specified edition/date is otherwise indicated.

2.1 Codes and Standards

2.1.1 Factory Mutual (FM)

Factory Mutual Data Sheets and Approval Guide

2.1.2 Underwriters Laboratories Inc. (UL)

Underwriters Laboratories Product Directories

2.1.3 National Fire Protection Association (NFPA)

NFPA 11 Low Expansion Foam and Combined Agent Systems

NFPA 13 Installation of Sprinkler Systems

NFPA 22 Water Tanks for Private Fire Protection

NFPA 24 Private Fire Service Mains and their Appurtenances

NFPA 70 National Electrical Code

NFPA 72A Local Protective Signalling Systems

NFPA 72E Automatic Fire Detectors

NFPA 101 Life Safety Code

2.1.4 American Society of Mechanical Engineers (ASME)

Section VIII Pressure Vessels, Division 1

2.2 Standard Specifications

SP-575701-00-01 Structural Engineering Design Criteria

SP-575701-20-01 Structural Steel Fabrication

SP-575701-20-02 Structural Welding Shop and/or Field

SP-575701-50-03 Piping Specification

SP-575701-80-01 Painting of Equipment, Piping and Miscellaneous steel

SP-575701-90-02 Welding of Shop and/or Field Fabricated Piping

3.0 DESCRIPTION

The design, materials, fabrication, installation, and testing of the Foam/Water Fire Extinguishing Systems shall comply with the requirements of NFPA 11 and 13. All foam water extinguishing devices shall be suitably listed by UL or approved by FM.

3.1 Design Criteria

SUPPLIER shall design a manual Foam/Water Fire Extinguishing System per the requirements of NFPA 11, 13, and all applicable local, state and federal requirements. SUPPLIER shall be responsible to determine foam capacities & flow rates required per the needs of Tank Farm No. 1 and be responsible to obtain all necessary certifications..

3.2 System Design

The Foam/Water Fire Extinguishing System shall be designed by the SUPPLIER for the protection of Tank Farm No. 1. SUPPLIER shall provide a self-contained, skid-mounted Foam/Water Fire Extinguishing System (see drawing 078-92-007C). In addition, SUPPLIER shall provide all piping, supports, and foam chambers to comprise a total foam system. The Foam/Water Fire Extinguishing System shall be of the Diaphragm Balance Pressure Proportioning type design and shall include all necessary equipment, approved design drawings, configuration, installation and testing. As a minimum, the scope shall include the following:

3.2.1 Foam

The foam concentrate provided by BUYER shall be a synthetic type and shall meet the requirements of NFPA 11. The foam shall form a 3 percent solution by volume when mixed with water. The foam solution shall be produced by continuous introduction of the foam concentrate at the correct ratio to the water flow. The foam concentrate shall be introduced into the waterflow by pressure injection through the use of a pressure proportioning tank and a proportioning ratio controller.

3.2.2 Diaphragm (Bladder) Proportioning Tank, V-200

The foam bladder tank shall be sized on the basis of extinguishing a fire in a 40 foot diameter tank. The design shall meet the requirements of NFPA 11. The foam bladder tank shall be skid mounted and will be permanently located, as shown on Firewater Transposition Dwg. No. 078-91-009B). The foam liquid storage tank shall be of welded construction in accordance with the requirements of Section 2 of this specification. The foam bladder tank shall provide for filling, draining, cleaning, and inspection of interior surfaces.

3.2.3 Proportioning Controller (Venturi-Type)

SUPPLIER shall provide a proportioning controller to mix the foam concentrate and water to produce a 3 percent solution at various flow rates.

3.2.4 Strainers for Foam Concentrates

Strainer shall be installed in foam concentrate line upstream of metering orifices or ratio controllers so as to be accessible for cleaning during system operation.

3.2.5 Foam/Water System Piping

All piping, fittings and valves for the Foam/Water Fire Extinguishing System shall be in accordance with the requirements of Section 2 of this specification. Hydraulic calculation shall be made in accordance with the requirements of NFPA 11. The SUPPLIER shall provide all design drawings, calculations, piping layouts, pipe supports, hangers, and critical pipe dimensions for BUYER approval.

3.2.6 Foam Chamber

Foam chambers shall provide the means of introducing foam to the tanks located in Tank Farm No. 1. SUPPLIER shall select and size the appropriate foam chamber per the requirements of NFPA 11.

4.0 SYSTEM OPERATIONS

The balance pressure proportioning design shall be configured to operate as follows:

4.1 The foam system will be activated manually by connection to the fire department truck and opening valves systematically.

4.2 Water supply then simultaneously feeds the ratio controller and pressurizes the foam concentrate through a bladder in the tank.

4.3 Water flowing through the ratio controller venturi creates a differential pressure common to both the downstream water and foam concentrate. This pressure differential between V-200 and the proportioning controller inlet, induces foam concentrate from V-200 through a foam concentrate orifice and mixes with the water to produce foam solution at various flow rates.

4.4 During operation the water outside V-200's bladder gradually displaces the foam concentrate inside, causing the bladder to collapse until the supply is exhausted.

4.5 At such time that the foam supply is exhausted, the system shall be shut down, the tank drained, and the bladder refilled with foam concentrate.

5.0 TECHNICAL REQUIREMENTS

5.1 Welding

All welding shall be in accordance with the requirements of Specification SP-575701-20-02 and SP-575701-90-02.

5.2 Structural

All equipment, supports, and skids shall conform to the requirements of Specification SP-575701-00-01 and SP-575701-20-01.

5.3 Supports

5.3.1 All pipe supports shall be designed, furnished, and installed by CONTRACTOR. All piping shall be supplied with adequate sway bracing to prevent movement during operations.

5.3.2 Exterior supporting steel members shall be galvanized.

5.3.3 Hangers for support of piping and equipment shall be galvanized and shall be types approved for fire protection services. Supports shall not interfere with access to operating areas.

5.4 Tooling

SUPPLIER shall furnish any special tooling needed for maintenance and servicing of the system. The tooling shall be new and shall not have been used for manufacturing or assembly of the unit.

6.0 QUALITY CONTROL

6.1 Materials/Equipment Supplied

SUPPLIER shall furnish all fire protection material and equipment from BUYER's suggested manufacturers lists. All materials and equipment furnished in accordance with this specification shall be standard equipment, new, designed for the use intended, and conform to the types and sizes defined in NFPA. Materials and equipment furnished shall be UL listed and/or FM approved for the particular application proposed.

6.2 Inspection

6.2.1 SUPPLIER shall furnish the BUYER copies of the SUPPLIER's Quality Control Plan.

6.2.2 The following information shall be available to the inspector upon request:

A. Evidence, such as material certifications, purchase specifications and bills of materials, to establish that various parts and components are of specified material.

B. Copies of SUPPLIER's unpriced purchase orders to all subsuppliers.

7.0 SUBMITTALS

7.1 SUPPLIER shall submit a list of materials being used to BUYER for review prior to shipment. The list shall include a description of all materials and material listings.

7.2 SUPPLIER shall submit plan drawings and hydraulic calculations to BUYER for review prior to installation. Drawings and calculations shall be in accordance with NFPA 11.

7.3 SUPPLIER/CONTRACTOR shall provide BUYER with a set of Operation and Maintenance Manuals prior to testing the system. Each set of manuals shall contain the following information:

7.3.1 A complete set of instructions regarding operation, maintenance, and testing of equipment involved.

7.3.2 A complete bill of materials of all replaceable parts, their part numbers, current cost, and name and address of nearest supplier.

7.3.3 Supporting documentation including calculations, drawings, certification.

7.3.4 A copy of all guarantees and warranties issued.

7.4 Before final acceptance by BUYER, SUPPLIER/CONTRACTOR shall provide the BUYER with As-Built drawings and test certificates in accordance with NFPA 11.

8.0 SUGGESTED MANUFACTURERS

Chubb National Foam
3M Co.
Ansul Fire Protection
Rockwood Systems
Feecon
Grimway

9.0 SURFACE CONDITIONS

9.1 SUPPLIER/CONTRACTOR shall examine the areas and conditions under which work of this section will be performed. CONTRACTOR shall not proceed until unsatisfactory conditions are corrected.

9.2 It shall be the responsibility of CONTRACTOR to coordinate with BUYER, the schedule and sequencing of installation, prior to installation. Specifically, the CONTRACTOR shall schedule and coordinate the following:

a) Excavation of underground piping
b) Penetrations in tanks located in Tank Farm No. 1
c) Inspection by Huntington Beach Fire Marshall to coincide with inspection of other systems

10.0 DOCUMENTATION

10.1 SUPPLIER shall supply shop drawings with schematics to facilitate BUYER evaluation of the effectiveness of each system.

10.2 Drawings and Data submitted shall include information and calculations on the amount of foam, container storage pressure, the location and flow rate of each nozzle, the nozzle discharge pressure, size and equivalent length of pipe, fittings and the location.

10.3 Plans and calculations shall be submitted for BUYER review.

11.0 INSPECTION

11.1 BUYER shall be allowed access to SUPPLIER/CONTRACTOR's facilities to inspect the equipment prior to shipment. SUPPLIER/CONTRACTOR shall coordinate with BUYER to schedule or waiver the inspection prior to the packaging of the equipment being shipped.

11.2 BUYER shall be permitted to inspect SUPPLIER/CONTRACTOR supplied equipment at the jobsite prior to installation.

11.3 During and after installation the system shall be subject to inspection for proper workmanship, appearance, and compliance with this specification.

12.0 SHIPPING, HANDLING AND STORAGE

12.1 Equipment shall be prepared for shipment after all shop tests have been completed.

12.2 Openings shall be covered and lifting points clearly marked.

12.3 SUPPLIER/CONTRACTOR shall be responsible for, and shall make all arrangements for, delivery, unloading and handling of all equipment, materials and tools, and for the storage of same in areas as designated by BUYER.

12.4 SUPPLIER/CONTRACTOR shall provide protection for the equipment during transit and storage.

13.0 INSTALLATION

13.1 CONTRACTOR and all of his employees, subcontractors, etc., must at all times keep away from all parts of the site except the areas in which work is being done under this specification or the areas assigned for storage of materials. BUYER will assign a foreman to the project, and his direction shall be closely followed. At no time shall any work commence or continue without the presence and direction of BUYER's foreman.

13.2 CONTRACTOR shall install the piping and equipment in accordance with the working drawings as accepted by BUYER.

13.3 Any deviations from the accepted drawings shall require prior acceptance by BUYER.

13.4 CONTRACTOR shall install the equipment so that it will not interfere with piping, electrical conduit and structural members. If any such interferences exist or occur, CONTRACTOR shall make the necessary adjustment to permit satisfactory installation of the equipment without additional cost upon approval of BUYER's construction manager.

13.5 CONTRACTOR shall give adequate prior notice to BUYER of any requirements for BUYER-supplied services for installation and testing of the system.

13.6 All excess oil, dirt, pipe joining compound, rust, and mill scale shall be removed from piping and equipment. All dirt, debris, and excess cutting oil shall be removed from the interior of all piping and equipment before it is erected.

13.7 Open ends of all installed piping and equipment shall be covered at the end of each working day to prevent foreign material from entering.

14.0 IDENTIFICATION

14.1 CONTRACTOR shall furnish a master chart for each system and shall show the identification numbers and locations of all critical system components, valves, and instruments.

14.2 Drain and test valves shall have brass tags not less than 2-1/2 inches in diameter, inscribed with 3/4 inch numbers. The tags shall be attached to the valves with non-ferrous chains.

15.0 TESTING

15.1 CONTRACTOR shall perform inspections and tests in accordance with this specification and applicable codes and standards. The tests shall include all testing required by NFPA 11, as a minimum. A test plan shall be submitted to the BUYER for approval prior to the start of testing.

15.2 CONTRACTOR shall flush the water supply connections in accordance with NFPA 11 and 13. Prior to testing, the foam/water system shall be flushed to allow thorough cleaning. The flushing operation shall be documented and certified.

15.3 Piping shall be hydrostatically tested in accordance with the requirements of NFPA 11 and 13. After testing and acceptance, the system shall be thoroughly drained.

15.4 All tests performed by CONTRACTOR shall be conducted in the presence of BUYER's authorized representative, and representatives of all authorities having jurisdiction. Concerned parties shall be notified not less than 1 week in advance of the tests in order to acknowledge attendance at the tests. CONTRACTOR shall execute the Inspection Agreement of the National Automatic Sprinkler and Fire Control Association, Inc., and subsequent reports of inspection required by the Agreement.

16.0 CLEANUP

16.1 Before acceptance of the installation, CONTRACTOR shall remove the following:

16.1.1 Rubbish and debris resulting from the work.

16.1.2 CONTRACTOR-furnished equipment, tools, and temporary services and utilities.

16.2 Equipment or areas damaged by CONTRACTOR shall be repaired, replaced, or restored to its original condition at no additional cost to BUYER.

CONTRACT 424601
RFQ/PO NO. 42A601-4-0602
ITEM NO. P-100
REV 1 DATE 9/14/93
ORIG. BY GBM CHECK'D BY
SHEET 1 OF 2

FLUOR
SPECIFICATION SHEET
FIRE WATER PUMP

REV

Client SWEPI Item No. No. Pumps Read. ONE
Unit FIRE WATER PUMP Driver: Motor NA Furnished By SELLER
Pump Mfr. * Turbine NA Furnished By //
Size and Model * Engine *DIESEL Furnished By SELLER
NOTE: ○ Indicates information to be Completed by Purchaser:
☐ By Vendor Applicable To: Proposals ● Purchase ○ As Built ○

GENERAL

Applicable Specs: ● NFPA 20 ○ FM
● Other UL
Label Required: ● Yes ○ No
Environment: ○ Indoors ● Outdoors Elev.: 50 FT
Ambient Temp: Min 35 Max 95°F Wet Bulb °F
Protection Read.: ○ Winterization ○ Tropicalization
● Other MARINE ENVIRON.
Pump: ● Horiz. ○ Vert. Gear: ○ Yes ● No

OPERATING CONDITIONS

Liquid WATER US GPM RATED: - 2000
Temp. °F 65°-75°F Disch. Pres., PSIG 129
Sp. Gr. 1.0@60 Suct. Pres., PSIG 22
Vap. Pres., PSIA 0.43@75°F Diff. Pres., PSI 108
Diff. Head, Ft 249 (SEE NOTES BELOW)
NPSHA, Ft. 30 Hyd. HP 157

* PUMP PERFORMANCE

■ Proposal Curve No.
■ RPM ■ Eff. ■ NPSHR, Ft
■ Max Diff. Pres., PSI ■ Rated BHP
☐ Submergence Read., Ft ■ Max BHP

RIGHT ANGLE GEAR

☐ Mfr ☐ Model & Size
☐ HP Rated ○ Item No.
☐ HP Max ☐ Service Factor
☐ RPM In ☐ RPM Out ☐ Ratio
☐ Vert. Thrust Cap. Lbs Up DN ☐ Eff.
☐ Lubrication
☐ Cooling Water GPM PSI

STEAM TURBINE DRIVER

☐ HP Rated ☐ RPM ○ Item No.
☐ Mfr ☐ Model & Size
Steam: ○ Inlet PSIG ○ Inlet Temp. °F
○ Exhaust PSIG ☐ Rate, Lb/HP/Hr

PUMP ACCESSORIES BY VENDOR

● Air Release Valve
● Main Relief Valve ● Size For Full Flow
● Waste Cone on Relief Valves (ENCLOSED TYPE)
● Flow Meter

PUMP ACCESSORIES BY VENDOR (Continued)

● Waste Cone for Engine Cooling Water Discharge
○ ○

HORIZONTAL PUMP CONSTRUCTION

Nozzles	SIZE	RATING	FACING	LOCATION
Suction				
Discharge				

Case-Mount: ■ Centerline ☐ Foot ☐ Bracket
—Split: ■ Axial ☐ Radial
—Pres.: ■ Max Allowed ■ Hydrotest
Impeller Dia.: ■ Rated ■ Max.
Bearings—Type: ■ Radial ■ Thrust
Lube: ☐ Ring Oil ☐ Flood
Coupling: ■ Mfr ☐ Model
Packing: ☐ Mfr. & Mtl
Mech. Seal: ■ Mfr. Mod & Mtl

VERTICAL PUMP CONSTRUCTION

○ Sump Depth, Ft
Disch. Nozzle: ○ Above ○ Below Surface
☐ Size ☐ Rating ☐ Facing
Column Pipe: ☐ Flanged ☐ Threaded
Line Shaft: ☐ Open ☐ Enclosed
Impeller Dia: ☐ Rated ☐ Max
Pump Thrust, Lbs Up DN
Coupling: ☐ Mfr ☐ Model
Packing: ☐ Mfr & Mtl
Mech. Seal: ☐ Mfr. Mod. & Mtl

* PUMP MATERIALS

■ Bowl or Case	■ Shaft
■ Impeller	☐ Sleeve
☐ Suct. Bell	☐ Gland
☐ Column	■ Bowl Brg
☐ Head	☐ Lineshaft Brg
■ Strainer	■ Wear Parts

SYSTEM SKETCH

SEE UTILITY FLOW
DIAGRAM DWG.
No 078-97-007B

REVISION LOG

REV	ORIG. BY	CHCKD. BY	DESCRIPTION
1	SN.		ISSUED FOR RFQ
2			
3			
4			
5			

PRINTED IN U.S.A. FORM E-1183 A 4/83

NOTE 1. PUMP CAPACITY SHALL BE MINIMUM 150% OF RATED CAPACITY.
2. THE DIFFERENTIAL HEAD IS BASED ON A FLOW RATE OF 2500 GPM

CONTRACT 424601
RFQ/PO NO. 424601-4-0602
ITEM NO. P-100
REV 1 DATE 9/14/93
ORIG. BY GBM CHECK'D BY _____
SHEET 2 OF 2

FLUOR

SPECIFICATION SHEET

FIRE WATER PUMP
(Continued)

REV

~~ELECTRIC DRIVER~~ NA

■ HP _____ ■ RPM _____ ○ Item No. _____
☐ Frame _____ ○ Volts/PH/HZ _____
☐ Bearings—Type _____ ☐ Lube _____ ☐ Mfr _____
○ Type _____ ○ Encl _____ ○ Insul _____
☐ F.L. Amps _____ ☐ L.R. Amps _____ ☐ °C Rise _____
○ VHS ○ VSS ☐ Vert. Thrust Cap., Lbs _____ Up _____ Dn
☐ Cooling Water _____ GPM _____ PSI

~~ELECTRIC DRIVE CONTROL PANEL~~

☐ Mfr: _____ ☐ Model No. _____
○ Provided By _____ Enclosure _____
○ Automatic ○ Non-Automatic ○ Ltd. Service
○ Remote Start ○ Sequential Starting
○ Deluge System ○ Continuous Run Operation
○ Dry System ○ Power Failure Indicator
○ Minimum Time Run Relay
Starting: ○ Across the Line ○ Reduced Voltage
○ Circuit Breaker Interrupting Capacity _____
○ Circuit Breaker Interrupting Current _____
Test Connections: ○ Terminals ○ Test Link.
○ Pump Start on Loss of Alarm Circuit Power
○ Test Recording Gage
○ Manual Shutdown ○ Automatic Shutdown
Pressure Switch Settings: ○ High _____ ○ Low _____
Alarms and Signals (on Controller):
○ Pilot Lamp, A.C. Power Availability
○ _____
Alarms and Signals (Remote):
○ _____
○ _____
○ _____
○ _____
○ _____

✳ ENGINE DRIVER

■ Mfr. _____ ■ Model _____ ☐ Displ. _____
■ HP, Rated _____ ■ RPM _____ ○ Item No.
■ No. of Cylinders ☐ % De-Rate _____
Turbocharged: ☐ Yes ☐ No ☐ Max RPM
Governor: ○ Variable, + ____ %, (—) ____ % ○ Constant
○ Hyd. ○ Mech. ○ NEMA Class _____
☐ Mfr _____ ☐ Model _____
Start: ● Electric ○ Air ○ Gas _____
Shutdown: ○ Fuel Vented ○ Inlet Air
■ Guaranteed Fuel Rate @ Rated Load _____ Lb/HP-Hr
○ Fuel System: ○ Separate Tank Drawing Attached
○ Operating Capacity 8 Hours ■ Tank Size _____ Gal.
■ Tank Height Above Engine ℄ Ft. _____ Max. _____ Min.
Support Structure: ● By Vendor ○ By Fluor

Cooling ○ Cooling Water Solenoid Valve By Vendor
☐ _____ Heat Rejection, BTU/BHP—HR
☐ Cooling Water ____ gPM ☐ Gear Cooling Water Req'd ____ gPM
○ Thermostatically Controlled Heater to Maintain Engine Temp. Between _____ °F and _____ °F with Ambient Air Temp of _____ °F
Cooling Water System Materials _____
Battery: ● Lead Acid ○ Nickel Cadmium
● Earthquake Proof Battery Rack
○ Cable Length Required _____ Ft.
Air Start: ☐ _____ PSIG, ☐ _____ Std Cu Ft/Start _____
● Air Inlet Filter ● Dry ○ Oil Bath
Exhaust Silencer: ● Residential (85dBA) ○ Industrial
Max. Exhaust Pipe Length _____ ■ Flex Connector
○ _____
○ _____
○ _____

✳ ENGINE DRIVE CONTROL PANEL

■ Mfr. _____ ■ Model No. _____
● Automatic ○ Non-Automatic ○ Remote Man.
● A.C. Electrical Service Available 460 VAC
○ Enclosure Heater Required
○ Pump Start on Loss of Alarm Circuit Power
○ Deluge System ○ Dry System
○ Sequential Starting (JOCKEY/MAIN) ○ Power Failure Start
● Weekly Test Timer ○ Test Recording Gage
● Manual Shutdown ○ Automatic Shutdown
● Overspeed Shutdown ● Cooling Water Solenoid
Pressure Switch Settings: ● High ____ ● Low _____
○ _____
○ _____

Alarms and Signals (on Controller):
● Pilot Lamp, A.C. Power Availability ● PILOT LAMP, OVERSPEED.
● Pilot Lamp, Battery LOW VOLTAGE
● Pilot Lamp Low Oil Pressure
● Pilot Lamp High Engine COOLANT TEMP.
● Pilot Lamp Engine Starting Failure
● PILOT LAMP BATTERY CHARGER FAILURE
● COMMON AUDIBLE ALARM
Alarms and Signals (Remote):
● ENGINE FAIL TO START
● ENGINE RUNNING
● MAIN SWITCH NOT IN AUTO.
● COMMON TROUBLE

REVISION LOG

REV	ORIG. BY	CHCK'D. BY	DESCRIPTION
A	GBM		ISSUED FOR SQUAD CHECK
1	GBM		ISSUED FOR RFQ
2			
3			
4			
5			

FLUOR DANIEL
CENTRIFUGAL PUMP DATA SHEET

Sheet No. ____ Rev. 1
Job No. 424601
P.O. No. ____
Inquiry No. 424601-4-0602
Page 1 of 2

NOTE: ○ Indicates Information To Be Completed By Purchaser
☐ Indicates Information To Be Completed By Manufacturer

Applicable to: ● Proposal ○ Purchase ○ As Built

REV.	DATE	BY	CHK'D
A	09-17-93	GBM	
0	09-28-93	GBM	

For SWEPI
Site HUNTINGTON BCH, CALIF.
Unit JOCKEY PUMP

Service FIRE WATER
Pump Mfr. *
Size & Type *
No. Stages *
Serial No. ____

No. Pumps Required ONE
No. Motor Driven ONE
Pump Tag No. P-101
Motor Tag No. P-101-M
Motor Provided By SELLER
Motor Mounted By SELLER

~~No. Turbine Driven~~
~~Pump Tag No.~~
~~Turbine Tag No.~~
~~Turbine Provided By~~
~~Turbine Mounted By~~

LIQUID

Name WATER
Pumping Temperature (°F)
Normal 75 Max. 60 Min. 90
Specific Gravity @ 60 °F 1.0
Vapor Press. (PSIA) 0.5 @ 80°F
Viscosity (CP) @ 0.92 °F 75
Corrosion/Erosion Caused By: N/A
Remarks: ____

OPERATING CONDITIONS

Capacity (U.S. GPM)
Normal 20 Rated 22
Disch. Press. (PSIG) 100
Suct. Press. (PSIG)
Max. 60 Rated 38
Diff. Press. (PSI) 62
Diff. Head (Ft) 143
NPSH Available (Ft) 30
Hyd. Power (HP) 0.8

SITE CONDITIONS

Temp(°F) Max. 95 Min. 35
Rel. Hum. (%) Max. ____ Min. ____
Altitude (Ft) SEA LEVEL
○ Indoor ○ Heated ● Roof
● Outdoor ● Unheated ○ Sun
Area Classification UNCLASSIFIED
Other MARINE COASTAL ENVIR.
Remarks: SKID WILL BE LOCATED UNDER A ROOF

✳ PERFORMANCE (To Be Completed By Manufacturer / SELLER)

Proposal Curve No. ____
Speed (RPM) ____
Efficiency (%) ____
Rated Power (BHP) ____

Min. Continuous Flow (GPM)
Thermal ____ Stable ____
Max. Head Rated Imp. (Ft.) ____
Max. Power Rated Imp. (BHP) ____

NPSH Required (Ft. Water)
3% Head Drop ____
Suction Specific Speed ____

✳ CONSTRUCTION (To Be Completed By Purchaser and Manufacturer / SELLER)

Nozzles:	SIZE	RATING	FACING	LOCATION
Suction				
Discharge				

Misc. Conn.	SIZE	TYPE
Drain		
Vent		
Press Gage		
Warm Up		
Balance Line		

Casing Mount:
☐ Foot ☐ Bracket
☐ Centerline ☐ Inline
☐ Near Centerline

Casing Split:
☐ Axial ☐ Radial

Casing Type:
☐ Diffusor ☐ Single Volute
☐ Stepped ☐ Double Volute

Max. Allowable Pressure (PSIG)
At 60°F ____
At Norm. Pump Temp. ____
Hydro Test Pressure (PSIG) ____
Remarks: ____

Impeller Diameter (in.)
Rated ____ Max. ____ Min. ____
Imp. Type: ☐ Open ☐ Closed
Imp. Suction: ☐ Single ☐ Double
Imp. Mount.: ☐ Btwn. Brgs. ☐ Overhung
Rotation (Viewed From CPLG) ☐ CW ☐ CCW

Bearing (Type/No.)
Radial ____
Thrust ____
Lubrication Type: ☐ API 614
☐ Grease ☐ Ring Oil ☐ Oil Mist
☐ Flood ☐ Flinger ☐ Pressure

Coupling:
Manufacturer ____
Type/Model ____
Driver Half-Coupling Mounted by:
● Pump Mfr. ○ Driver Mfr. ○ Purchaser

Packing
Manufacturer ____
Type ____
Size/No. Rings ____

Mechanical Seal:
API Class Code ____
Manufacturer ____
Model ____
Manufacturer Code ____
○ Cartridge Type Required

Gland Type/Mat'l ____
Gland Plate Taps Required for:
○ Quench ○ Flush ○ Drain ○ Vent

FLUOR DANIEL

CENTRIFUGAL PUMP DATA SHEET

Sheet No. 2 OF 2 Rev. 1
Job No. 424601
Page 2 of 2

NOTE: ○ Indicates Information To Be Completed By Purchaser
☐ Indicetes Informetion To Ba Completed By Menufacturar

✱ MATERIALS (To Be Completed By Purchaser and Manufacturer/SELLER)

○ Teble E-1 Cless _____ ☐ Case/Imp. Wear Rings _____ Beseplate:
☐ Barrel/Case _____ ■ Shaft _____ ■ Meteriel/Type _____
■ Impeller _____ ☐ Slaeve _____ ☐ API 610 Std. No. _____
Remarks: _____

✱ AUXILIARY PIPING (To Be Completed By Purchaser and Manufacturer/SELLER)

○ Seel Flush Piping Plen _____
○ Tubing ○ Carbon Steel
○ Pipe ○ Stainless Steel
○ External Seel Flush Fluid
_____
○ Supply: ____ °F ____ PSIG
☐ Req'd: ____ GPM ____ PSIG
Seel Flush Piping Assembly:
○ Threaded ○ Socket Welded
○ Seal Walded ○ Butt Welded
○ Unions ○ Flangad

○ Auxiliary Flush Plan _____
○ Tubing ○ Carbon Steel
○ Pipe ○ Steinless Steel
○ Auxiliery Flush Fluid
_____
○ Supply: ____ °F ____ PSIG
☐ Req'd: ____ GPM ____ PSIG
Auxiliary Flush Piping Assembly:
○ Thraaded ○ Socket Welded
○ Seal Welded ○ Butt Welded
○ Unions ○ Flanged

○ Cooling Water Piping Plen _____
○ Tubing ○ Cerbon Steel
○ Pipe ○ Steinless Steel
○ Sight Flow Indicators Raquired
○ Supply: ____ °F ____ PSIG
☐ Total Watar Req'd ____ GPM
Cooling Water Piping Assembly:
○ Threadad ○ _____ Welded
○ Unions ○ Flenged
○ Packing Cooling Injection Req'd
○ Supply: ____ °F ____ PSIG
☐ Req'd: ____ GPM ____ PSIG

Remarks: _____

INSPECTION AND TEST (To Be Completed By Purchaser)

TEST	NON-WIT	WIT	OBSERVED
Performance	●	○	○
Hydrostetic	●	○	○
NPSH	○	○	○

○ Shop Inspection
○ Dismantle end Inspect After Test
○ Metariel Certificetion

○ Casting Rapair Procedura App. Req'd.
○ Inspaction Raq'd for Nozzle Welds:
○ Mag. Particla ○ Dya Penetrant
○ Rediographic ○ Ultresonic
○ Inspaction Req'd for Castings:
○ Mag. Particle ○ Dye Penatrant
○ Radiographic ○ Ultrasonic

○ Inspection Req'd For _____
○ Mag. Particle ○ Dye Penatrant
○ Radiographic ○ Ultrasonic
Remarks _____
TESTING SHALL BE PER REQUIREMENTS OF NFPA 20

✱ MOTOR DRIVER (To Be Completed By Purchaser and Manufacturer)

■ _____ HP ■ _____ RPM
☐ Frame _____
☐ Volts/Phese/Hertz 460/3/60
☐ Type SCIM
☐ Enclosure TEFC

☐ Temperature Rise (°F) 80°C over 40°C AMB.
■ Full Load AMPS _____
■ Lockad Rotor AMPS _____
☐ Insulation F
■ Menufecturer _____

■ Baarings _____
☐ Lube _____
Remarks: _____

✱ WEIGHTS (To Be Completed By Manufacturer/SELLER)

Unit Weights (LBS)	Motor Driven	Turbine Driven
Pump		
Beseplete		
Driver		
Other: _____		
Totel Weight		

INLINE PROCESS PUMPS

☐ Pump Thrust (LBS)	UP	DOWN
At Min. Flow		
At Design Flow		
At Runout		

☐ Motor Thrust Capacity (LBS)
UP _____ DOWN _____

ADDITIONAL INFORMATION

API Standerd 610 Governs Unless Otherwise Noted NFPA 20

✱ SELLER TO PROVIDE INFO / DATA WHERE INDICATED WITH ASTERISK.

FLUOR DANIEL

ELECTRIC MOTORS

SPECIFICATION SHEET

Contract 424601
Item No. ME-100
Revision 1 Date 11/19/93
By S. NAKASHIMA
Unit
P.O. No.
Inquiry No. 424601-4-0602
Sheet 1 Of 1

*SELLER SHALL COMPLETE DATA SHEET AND RETURN WILL PROPOSAL.

										REV.
1	Motor Tag Number(s)	P-101-M								
2	Manufacturer/Serial No.	/	/	/	/	/	/	/	/	
3	Power Rating HP									
4	Service Factor	1.15								
5	Speed Synch./Full Load, RPM	/	/	/	/	/	/	/	/	
6	Bearing Type									
7	Bearing Lubrication									
8	Voltage, Phase, Frequency	460/3/60								
9	Full Load Current									
10	Locked Rotor Current 100%V / 80%V	/	/	/	/	/	/	/	/	
11	Acceleration Time (Incl Load) 100%V / 80%V	/	/	/	/	/	/	/	/	
12	Locked Rotor Stall Time (Cold), Seconds									
13	Locked Rotor Stall Time (Hot) 100%V / 80%V	/	/	/	/	/	/	/	/	
14	Locked Rotor Torque (%FL)									
15	Breakdown Torque (%FL)									
16	Efficiency A. Full Load									
17	B. 3/4 Load									
18	C. 1/2 Load									
19	Power Factor A. Full Load									
20	B. 3/4 Load									
21	C. 1/2 Load									
22	D. Locked Rotor									
23	Sound Pressure Level at ft in DBA									
24	Space Heaters Volts/Phases/Watts									
25	Rotation (Facing End Opposite Drive Shaft)									
26	Insulation	F								
27	Enclosure Type/Motor Mounting (H or V)	TEFC1 H	/	/	/	/	/	/	/	
28	Frame									
29	Net Weight lb									
30										
31										

REVISION LOG

REV.	ORIG. BY	CHCKD. BY	DESCRIPTION
1	S. NAKASHIMA		ISSUED FOR RFQ
2			
3			
4			

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City of Huntington Beach
2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

August 16, 1993

Mr. J. F. Langer, Senior Chemical Engineer
Shell Western E&P, Inc.
Coastal Assets California Division
SPT 754
5060 California Avenue
Bakersfield, California 93309

RE: CHARGES FOR HUNT RESEARCH CORPORATION

Dear Mr. Langer:

Enclosed is the Invoice from Hunt Research Corporation for services rendered for the City of Huntington Beach Fire Department to plan check, review and recommend corrections in fire protection details for the new Shell Gas Plant and existing facilities on the Shell Oil Lease located on Pacific Coast Highway and Golden West Street in Huntington Beach, California.

Pursuant to section 2.302 of the Uniform Fire Code and the Fire Department's understanding, costs were to be billed to Shell Western for the use of Hunt Research Corporation services for technical assistance to the Fire Department.

Thank you for your cooperation to assure that a quality system will be installed specific to the needs of the City of Huntington Beach. Please call me if you have any questions regarding the above at 714-536-5564.

Sincerely,

Thomas F. Poe

THOMAS F. POE
Division Chief/Prevention

TFP/cgs/B:gasplnt1 ttp
Enclosure

c: Michael P. Dolder, Fire Chief; Ward Kinsman, Fire Protection Analyst;
Mark Miller, Senior Department Analyst;
James W. Hunt, President, Hunt Research Corporation, P O Box 291, Solvang, CA 93464

FLUOR DANIEL

INTEROFFICE CORRESPONDENCE

To:	Bill Linkus	Date:	July 21, 1993
Location:	Bakersfield	Reference:	SHELL "SWEPI"
From:	Dave Rich		
Location:	Irvine	Client:	SHELL
Extension:	5166	Subject:	Meeting with Fire Marshall

cc: G. Monteath
I. Gosla

Following is a summary of the subject meeting.

Attending:

(SWEPI)	Allan Budvitis	Operations Foreman
(Client)	Jim Langer	
(HBFD)	Ward Kinsman	Fire Protection Analyst
(HBFD)	Thomas Poe	Fire Marshall/Division Chief
(FD)	Dave Rich	
(HBFD)	Jim Hunt	Consultant
(HBFD)	Mark Bodenbender	Captain
(FD)	Buddy Leech	Process Engineer
(HBFD)	Lee Caldwell	

The meeting was scheduled to conduct a detailed review of the plant fire water system. Following is a summary of the important points of the meeting:

1. A detailed review of hydrant and monitor locations was conducted. I will convey these comments to FD Bakersfield for revision, via a marked-up set of plans.

2. The client agreed to provide a AFFF foam bladder tank with proportioner, to serve the proposed Oil Plant foam systems (Area #2). The system will remain manual, for use by HBFD. Client and HBFD will be discussing arrangements for the provision of a foam "cache".

3. Chief Poe will initiate flow tests of City water lines to confirm water supply characteristics. Current estimate is 3,000 to 4,000 gpm @ 20 psi. Client will pay fees. Tests to be conducted at Goldenwest entrance, and at Cherry Hill & Palm intersection.

4. The new connection to the city main at Cherry Hill & Palm will be made to the 8" leg extending from the 12" main line, so that domestic service is not interrupted.

5. On-site fire mains must be 8" minimum.

6. The fire pump system will consist of a diesel driven pump with associated controller, jockey pump and fuel tank equipment. Client will relocate a used 2,000 gpm unit to this site. Client will provide pressure rating of this pump to me for verification that capacity is sufficient for the system.

   A single diesel fire pump is acceptable to HBFD and the consultant, provided:

   a) that all performance requirements are verified by tests, and

   b) that provisions are made for fire trucks to act as the secondary pump source (fire dept. connection to pump bypass line).

7. If the proposed 2,000 gpm (used) pump proves to be insufficient to meet design basis requirements, the Client will provide a new 2,500 gpm diesel pump.

8. The design basis for the plant fire water system will be revised to 2,500 gpm, as requested by the HBFD consultant. The system shall provide 100 psi to the monitor nozzles, at that flow. FD process engineering will revise flow diagrams and calculations to reflect this requirement.

9. HBFD has requested that 10" piping not be used; however, teleconference with Ward Kinsman 7/20/93: 10" will be acceptable to HBFD.

Miscellaneous Comments

- Plant roads to be "all weather".
- Isolation valves on mains every 1,200'. (Shown on marked up plans 7/20)
- AFFF supply shall be based on NFPA II requirement: 0.10 gpn density; 55 minute duration; 3% solution; 39'0" diameter tank. Total foam requirement: 197 gallons (200 gallons).
- Combination hydrant monitor to be a single piece unit.
- Conference Notes to be sent to HBFD for concurrence.

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

June 21, 1993

Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648

Gentlemen:

SUBJECT: HUNTINGTON BEACH LEASE FIRE PROTECTION SYSTEM

The enclosed Addenda to the Fire Protection Plan represents the proposed fire and safety features which will be provided for the Water Plant, Oil Dehydration, Stretford Unit, and new Gas Processing Facility.

This safety plan is the result of an analysis of the potential risks from processes and equipment, balanced with appropriate automatic and manual safety features, to insure that reasonable safety levels are achieved.

Upon acceptance by the City of Huntington Beach Fire Department, this plan will form the basis of the safety system provided for the operation of the facility.

If you have any questions, please contact Mr. Jim Langer at (805) 326-5072.

Very truly yours,

J. C. Elliott
Technical Manager - L.A. Basin
California Division

JFL:tmm

Enclosure

SHELL WESTERN EXPLORATION & PRODUCTION INC.

HUNTINGTON BEACH

GAS PROCESSING PROJECT

FIRE PROTECTION PLAN

ADDENDA

FLUOR DANIEL

BAKERSFIELD, CALIFORNIA

MAY 12, 1993

REVISION 1

SPECIFICATION SP-575701-49-02

FIRE PROTECTION SYSTEM

ADDENDA

1.0 INTRODUCTION

This addenda provides data and information to supplement the "Approved, Fire Protection System, Master Plan". The addenda includes the following sections:

2.0 General Facility Description
3.0 Firewater Supply Source Description
4.0 Risk Areas Design Basis
5.0 Firewater Demand Summary
6.0 Firewater Demand Calculations
7.0 Firewater System Piping Transposition
8.0 Fire Department Notes
9.0 Attachments
10.0 Addenda Approval

2.0 GENERAL FACILITY DESCRIPTION

The systems, equipment and areas requiring fire protection coverage have decreased in their order of magnitude. The areas requiring fire protection are as follows:

AREA 1 - GAS PROCESSING

Area 1 has decreased both in number of equipment and in the quantities of gas being processed. The new design incorporates only one (1) reciprocating gas compressor compared to three (3) gas compressors. In addition, the total gas processed has decreased by 1/3. Originally, two (2) trains of equipment, each processed 3.0 MMSCFD, whereas now one (1) equipment train processes 4.0 MMSCFD.

AREA 2 - OIL PLANT

The equipment included within this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 3 - STRETFORD UNIT

An existing sulfur removal system retrofitted to allow processing of the 4.0 MMSCFD of sweet and sour gas. This unit replaces the Sulferox Unit, which shall be considered for future installation

AREA 4 - FREE WATER KNOCKOUT VESSELS

The equipment included in this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 5 - GROUND FLARE AREA

Area to include emergency vent stack

AREA 6 - WATER PLANT

The equipment included in this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 7 - CONTROL ROOM

No changes.

3.0 FIREWATER SUPPLY SOURCE DESCRIPTION

The site firewater source is assumed to be the municipal water system. The municipal source will be pressurized by a new on-site fire pump system. Seven areas of risks were determined, each one of them protected by a reasonable supply of water.

4.0 RISK AREAS DESIGN BASIS

The revised design basis includes seven (7) risk areas and the following assumptions:

a) Where primary hazards exist, fixed systems are provided.

b) Each area includes a firewater allowance for two fixed or mobile monitor streams (500 gpm each), for the protection of the general area.

c) Each area includes a firewater allowance of 500 gpm for manual hoses.

d) The integrity of hazard containers is maintained (i.e. a ruptured container is not considered).

e) The firewater supply is capable of providing 100 psi at each monitor inlet, based on maximum demand.

5.0 FIREWATER DEMAND SUMMARY

AREA #1 **GAS PROCESSING**
Water demand: 1945 gpm

AREA #2 **OIL PLANT**
Water demand: 1720 gpm

AREA #3 **STRETFORD UNIT**
Water demand: 1500 gpm

AREA #4 **FREE WATER KNOCKOUTS**
Water demand: 1500 gpm,

AREA #5 **GROUND FLARE**
Water demand: 1500 gpm

AREA #6 **WATER PLANT**
Water demand: 1500 gpm

AREA #7 **CONTROL ROOM**
Water demand: 1500 gpm

6.0 FIREWATER DEMAND CALCULATIONS

AREA #1 **GAS PROCESSING**

Equipment included:

- K-601 - Reciprocating compressor skid - 4 MMSCFD
- ME-800 - Propane refrigeration skid - 200 gallons propane storage
- Compressor scrubbers V-601, V-602, V-606
- ME-700 - Glycol Regeneration Skid
- Dewpoint Control Unit Skid (DCU), includes E-604 Propane heat exchanger
- Sulfatreat vessels - V-604, V-605
- V-4, Drain Drum
- P-702 Glycol make-up pump
- T-703 Glycol Storage

Water demand:

Fixed water spray system provided for ME-800, K-601, E-604. Density = 0.50 gpm/sq ft

Largest Hazard (K-601): 445 gpm
Area Protection (Monitors): 1000 gpm

Manual Hose:	500 gpm
Total:	1945 gpm

No fixed protection is provided for remaining equipment.

AREA #2 **OIL PLANT**

Equipment included:

- LACT Unit
- Crude Oil Tanks T-101, T-102, T-103, T-104
- Oil Tanks Diked Area
- Vapor Recovery System
- Filter Surge Tank T-316
- Heater Treaters V-102, V101
- Skim Tanks T-317, T-318

Water demand:

Fixed foam systems are provided for:
Tanks T-101, 102,103,104, 316, 317 and 318,
Density = 0.16 gpm/sq ft

Largest Hazard (T-317):	220 gpm
Area Protection (Monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1720 gpm

No fixed protection is provided for remaining equipment.

AREA #3 **STRETFORD UNIT**

Equipment included:

- V-1 Inlet Scrubber
- V-2, V-3, V-5, Contact Towers
- V-4, Discharge Scrubber
- T-1 Sulfur Slurry Holding Tank
- T-2 Flotation Cell
- T-3 Oxidizer
- T-4 Pump Surge Tank

Water demand:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm

Dry chemical extinguishers are provided. The only hazard at this unit includes natural gas. There are no liquid hydrocarbons storage at this unit. The safety features for the Stretford Unit include emergency plant shutdown.

AREA #4 **FREE WATER KNOCKOUT VESSELS**

Equipment included:

- FWKO's # 107, 108, 109, 110, 111, 114, 115
- V-104, V-110, V-111

Water demand:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm,

AREA #5 **GROUND FLARE**

Equipment included:

- Pilot Gas
- Purge Gas
- Gas Relief System

Water demand:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm

AREA #6 **WATER PLANT**

Equipment Included:

- Flotation Cells T-334, T-335, T-336, T-337, T-338
- Sludge Tanks T-330, T-331

Water demand:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm

AREA #7 **CONTROL ROOM**

Water demand:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm

Dry Chemical extinguishers are provided.

7.0 FIREWATER PIPING TRANSPOSITION

To satisfy the requirements as defined in sections 4,5 and 6, the Piping Transposition Drawing was developed. Reference attached drawing.

8.0 FIRE DEPARTMENT NOTES

9.0 ATTACHMENTS

- Firewater Piping Transpositions
- Revised Plot Plan
- Revised Process Flow Diagram
- Revised Mechanical Flow Diagrams
- Area Classification Drawings

10. ADDENDA APPROVAL

When approved by the Huntington Beach Fire Department, this document shall serve as the official Fire Protection Plan for the SWEPI Gas Processing Project facility at Golden West Blvd. and Pacific Coast Highway.

APPROVED BY:

_____ Date_____
Authorized Agent for:
Shell Western E&P Inc.

_____ Date_____
Huntington Beach Fire Department

SHELL WESTERN EXPLORATION & PRODUCTION INC.

HUNTINGTON BEACH

GAS PROCESSING PROJECT

FIRE PROTECTION PLAN

ADDENDA

FLUOR DANIEL

BAKERSFIELD, CALIFORNIA

JULY 30, 1993

REVISION 2

SPECIFICATION SP-575701-49-02

FIRE PROTECTION SYSTEM

ADDENDA

1.0 INTRODUCTION

This addenda provides data and information to supplement the "Approved, Fire Protection System, Master Plan". The addenda includes the following sections:

2.0 General Facility Description
3.0 Firewater Supply Source Description
4.0 Risk Areas Design Basis
5.0 Firewater Demand Summary
6.0 Firewater Demand Calculations
7.0 Firewater System Piping Transposition
8.0 Fire Department Notes
9.0 Attachments
10.0 Addenda Approval

2.0 GENERAL FACILITY DESCRIPTION

The systems, equipment and areas requiring fire protection coverage have decreased in their order of magnitude. The areas requiring fire protection are as follows:

AREA 1 - GAS PROCESSING

Area 1 has decreased both in number of equipment and in the quantities of gas being processed. The new design incorporates only one (1) reciprocating gas compressor compared to three (3) gas compressors. In addition, the total gas processed has decreased by 1/3. Originally, two (2) trains of equipment, each processed 3.0 MMSCFD, whereas now one (1) equipment train processes 4.0 MMSCFD.

AREA 2 - OIL PLANT

The equipment included within this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 3 - STRETFORD UNIT

An existing sulfur removal system retrofitted to allow processing of the 4.0 MMSCFD of sweet and sour gas. This unit replaces the Sulferox Unit, which shall be considered for future installation

AREA 4 - FREE WATER KNOCKOUT VESSELS

The equipment included in this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 5 - GROUND FLARE AREA

Area to include emergency vent stack

AREA 6 - WATER PLANT

The equipment included in this area remains unchanged. Detailed risk evaluation resulted in the requirement to cover fewer equipment.

AREA 7 - CONTROL ROOM

No changes.

3.0 FIREWATER SUPPLY SOURCE DESCRIPTION

The site firewater source is to be the municipal water system. The municipal source will be pressurized by a new on-site fire pump system. Seven areas of risks were determined, each one of them protected by a reasonable supply of water.

4.0 RISK AREAS DESIGN BASIS

The revised design basis will provide 2500 gpm to all areas of the plant for firefighting use, supplied by a single diesel fire pump.

The design basis flow shall be provided with 100 psi available at the fire water monitors, hydrants, and miscellaneous end devices.

The Huntington Beach Fire Department will act as the backup pumping system, in the event that the primary diesel pump fails. City water pressure from two hydrants located adjacent to the pumphouse will be boosted by pumper truck(s), supplying a 6-way fire department connection to the fire pump bypass line.

5.0 FIRE PROTECTION SUMMARY

AREA #1 GAS PROCESSING

Equipment included:

- K-601 - Reciprocating compressor skid - 4 MMSCFD
- ME-800 - Propane refrigeration skid - 200 gallons propane storage
- Compressor scrubbers V-601, V-602, V-606

- ME-700 - Glycol Regeneration Skid
- Dewpoint Control Unit Skid (DCU), includes E-604 Propane heat exchanger
- Sulfatreat vessels - V-604, V-605
- V-4, Drain Drum
- P-702 Glycol make-up pump
- T-703 Glycol Storage

Fire Protection:

Fixed water spray system provided for ME-800, K-601, E-604. Density = 0.50 gpm/sq ft

No fixed protection is provided for remaining equipment.

AREA #2 **OIL PLANT**

Equipment included:

- LACT Unit
- Crude Oil Tanks T-101, T-102, T-103, T-104
- Oil Tanks Diked Area
- Vapor Recovery System
- Filter Surge Tank T-316
- Heater Treaters V-102, V101
- Skim Tanks T-317, T-318

Fire Protection:

Fixed foam systems are provided for:
Tanks T-101, 102,103,104, 316, 317 and 318, and tank diked area.
Density = 0.16 gpm/sq ft

No fixed protection is provided for remaining equipment.

AREA #3 **STRETFORD UNIT**

Equipment included:

- V-1 Inlet Scrubber
- V-2, V-3, V-5, Contact Towers
- V-4, Discharge Scrubber
- T-1 Sulfur Slurry Holding Tank
- T-2 Flotation Cell
- T-3 Oxidizer
- T-4 Pump Surge Tank

Fire Protection:

No fixed protection systems are provided.

Area Protection (monitors):	1000 gpm
Manual Hose:	500 gpm
Total:	1500 gpm

Dry chemical extinguishers are provided. The only hazard at this unit includes natural gas. There are no liquid hydrocarbons storage at this unit. The safety features for the Stretford Unit include emergency plant shutdown.

AREA #4 **FREE WATER KNOCKOUT VESSELS**

Equipment included:

- FWKO's # 107, 108, 109, 110, 111, 114, 115
- V-104, V-110, V-111

Fire Protection:

No fixed protection systems are provided.

AREA #5 **GROUND FLARE**

Equipment included:

- Pilot Gas
- Purge Gas
- Gas Relief System

Fire Protection:

No fixed protection systems are provided.

AREA #6 **WATER PLANT**

Equipment included:

- Flotation Cells T-334, T-335, T-336, T-337, T-338
- Sludge Tanks T-330, T-331

Fire Protection:

No fixed protection systems are provided.

AREA #7 **CONTROL ROOM**

Fire Protection:

No fixed protection systems are provided.

Dry Chemical extinguishers are provided.

6.0 FIREWATER PIPING TRANSPOSITION

To satisfy the requirements as defined in sections 4,5 and 6, the Piping Transposition Drawing was developed. Reference attached drawing.

7.0 ATTACHMENTS

- Firewater Piping Transpositions
- Revised Plot Plan
- Revised Process Flow Diagram
- Revised Mechanical Flow Diagrams
- Area Classification Drawings

10. ADDENDA APPROVAL

When approved by the Huntington Beach Fire Department, this document shall serve as the official Fire Protection Plan for the SWEPI Gas Processing Project facility at Golden West Blvd. and Pacific Coast Highway.

APPROVED BY:

_____ Date 10/26/93
Authorized Agent for:
Shell Western E&P Inc.

_____ Date _____
Huntington Beach Fire Department

March 10, 1993

J. C. Elliott, Technical Manager
Shell Western E&P Inc.
P.O. Box 11164
Bakersfield, Ca. 93389-1164

SUBJECT: GAS PLANT RELOCATION

Dear Mr. Elliot:

The fire department has reviewed your request to extend time to relocate your current gas plant from an area designated as part of the future Bolsa Chica Park site to a new gas plant facility located on the Shell Oil Lease.

The fire department will approve the extension of time as requested beyond the agreed upon date of December 1994 providing Shell has met the following conditions:

1. A Hazard Utilization Study approved be the fire department must be completed to show how the current plant risks will impact the existing and growing residential development.

2. A Fire Protection Plan approved by the fire department must be completed to show hazards of the current plant. The plan must show how measures will be proposed for mitigating risks, such as fire, explosion or toxic releases. Emergency management procedures must be incorporated into the plan to show evacuation areas and provisions for evacuating people.

It was a pleasure meeting with you and the other the Shell representatives in February and the subsequent follow-up telephone call I had with you on March 1st informing you of this action. If you have any further questions from myself or the fire department, please call at 714-536-5564.

Sincerely,

Thomas F. Poe
Fire Marshal

c Michael Dolder, Fire Chief
Mark Bodenbender, Fire Captain, Petro-Chem

SWEPI
SSCA -Huntington Beach
Gas Processing Projects

FLUOR DANIEL, INC.
Bakersfield, CA
Contract No. 424601

SPECIFICATION SP-575701-49-05

FIRE PROTECTION DELUGE SYSTEMS

The attached specification, revised as indicated below, is issued herewith. If this is a later revision than now in your possession, please destroy previous issue.

Revision No.	0	Date	03/16/92	Pages	ALL
Revision No.	1	Date	01/04/93	Pages	ALL
Revision No.		Date		Pages	
Revision No.		Date		Pages	
Revision No.		Date		Pages	

Note: New issue X

Revised sheets only attached

Entire specification reissued

Prepared by: VINAY KUMAR

Date: 03/16/92

Approved by Fluor Daniel:

Date:

Approved by SWEPI:

Date: 2/16/93

SPECIFICATION SP-575701-49-05

FIRE PROTECTION DELUGE SYSTEMS

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SPECIFICATION SP-575701-49-05

FIRE PROTECTION DELUGE SYSTEMS

1.0 GENERAL

1.1 Scope

1.1.1 This specification shall include furnishing the complete engineering and design as well as furnishing the material, installation, testing and equipment required for the complete and operational automatic deluge spray system including detection and alarm systems.

⚠1 1.1.2 The Deluge Spray System is to be installed at the Shell Western E&P Inc. (SWEPI) Gas Processing Plant at Huntington Beach, California, for a gas compressor and a propane compressor located inside the compressor building, and a propane surge drum and air cooling heat exchanger.

1.2 Definitions

For the purposes of this specification, the following definitions apply:

BUYER: Shell Western Exploration and Production, Inc. (SWEPI) or SWEPI's authorized representative.

SELLER: The vendor selected by BUYER to supply equipment, engineering, or services described in this specification and referenced documents.

CONTRACTOR: The corporation, partnership or individual contracted to provide on-site construction services, materials and/or fabrication in accordance with this specification and referenced documents.

MANUFACTURER: The original fabricator of the equipment or components described in this specification and referenced documents.

FABRICATOR: The corporation, partnership or individual contracted to perform services to produce a specific product normally remote from jobsite, as described in this specification and referenced documents.

2.0 APPLICABLE CODES, STANDARDS, AND REFERENCES

Design engineering and installation shall be in accordance with the latest edition of the following Codes, Standards, and Documents referenced in the specification.

National Fire Protection Association (NFPA)

NFPA 13	Installation of Sprinkler Systems
NFPA 15	Water Spray Fixed Systems for Fire Protection
NFPA 70	National Electric Code
NFPA 72A	Local Protective Signaling Systems
NFPA 72D	Proprietary Protective Signaling Systems
NFPA 72E	Automatic Fire Detectors

BUYER's Specifications and Standard Forms

SP-575701-50-08	Firewater Piping Systems
SP-575701-70-16	Control Panels
SP-575701-50-81	Coating and Wrapping of Steel Pipe
Form E-212	Vendor Drawings and Data Commitment

3.0 DESCRIPTION

3.1 One deluge valve riser shall be provided for the area specified in Section 1.1.2. The deluge system shall be hydraulic release type and shall meet the requirements of NFPA 15. The associated detection equipment shall meet the requirements of NFPA 72E.

3.2 The CONTRACTOR shall provide one local alarm system which shall include, but not be limited to, local alarm bell, and manual pull station. The fire alarm system shall meet the requirements of NFPA 70, 72A, and 72D.

3.3 BUYER will provide firewater to the CONTRACTOR from one 10-inch 150# flanged stub-up. CONTRACTOR shall make the proper connections as required for system operation.

3.4 Power (120 VAC single phase) will be provided by BUYER. CONTRACTOR shall make the necessary connections and shall provide circuit breakers as required for system operation.

3.5 CONTRACTOR shall provide all wiring and conduit and shall make the necessary connections for a complete and operational deluge system with alarm and detection. Wiring and conduit to the local and central control rooms shall not be a part of the Work included under this specification.

3.6 CONTRACTOR shall provide spare contacts to transmit all trouble alarm signals and fire alarm signals to the fire alarm panel located in the control rooms.

4.0 DESIGN CRITERIA

⚠1 4.1 Water for each deluge system will be available from the yard firewater supply loop at a pressure of 100 psig. CONTRACTOR is to verify adequate water supply prior to installation.

4.2 Compressors shall be directly sprayed at a rate of 0.5 gpm per square foot of "envelope" surface area which includes the compressor case, gear box, motor, lube oil console, etc. Water spray piping shall be designed and installed so as not to interfere with dismantling operation of the compressor and/or associated equipment.

⚠1 4.3 Water density for propane surge drum and air cooling heat exchanger will be 0.25 gpm per square foot.

4.4 Minimum end head pressure at hydraulically most remote nozzle shall be 25 psi.

5.0 OPERATING SEQUENCE

5.1 Activation of fixed-temperature heat detectors located in the deluged area will cause the local control panel to activate a local alarm bell, shut down the compressors and air fin cooler, open the deluge valve, and transmit a fire alarm signal to the fire alarm panel located in the Central Control Room.

5.2 Activation of a manual pull station will cause the same sequence of events as the activation of the detection system.

5.3 Any system malfunction or trouble will cause an audible and visual indication at the local control panel. The panel will then transmit a trouble alarm signal to the fire alarm panel located in the Central Control Room.

6.0 QUALITY ASSURANCE

6.1 All equipment and system components shall be Underwriters' Laboratories, Inc. (UL) listed and/or Factory Mutual Systems (FM) approved.

6.2 CONTRACTOR shall be a licensed California contractor experienced in the installation of deluge spray systems which meet the requirements of NFPA 15.

7.0 SUBMITTALS

7.1 CONTRACTOR shall submit a list of materials being used to BUYER or BUYER's authorized representative for approval prior to shipment. The list shall include a description of all materials and material listings.

7.2 CONTRACTOR shall submit plan drawings and hydraulic calculations to BUYER or BUYER's authorized representative for approval prior to installation. Drawings and calculations shall be in accordance with NFPA 15.

7.3 CONTRACTOR shall provide BUYER or BUYER's authorized representative with a set of Operation and Maintenance Manuals prior to testing the system. Each set of manuals shall contain the following information:

7.3.1 A complete set of instructions regarding operation, maintenance, and testing of equipment involved.

7.3.2 A complete bill of materials of all replaceable parts, their part numbers, current cost, and name and address of nearest supplier.

7.3.3 Supporting documentation including calculations,

7.3.4 A copy of all guarantees and warranties issued.

7.4 Before final acceptance by BUYER, CONTRACTOR shall provide the BUYER or BUYER's authorized representative with As-Built drawings and test certificates in accordance with NFPA 15.

8.0 TECHNICAL REQUIREMENTS

8.1 Deluge Riser

Each deluge riser shall include, but not be limited to, a strainer, OS&Y gate valve with tamper switch, deluge valve, and the trim required for a complete and operational automatic/manual deluge spray system.

8.2 Piping

8.2.1 Piping, fittings and valves shall be as specified in BUYER's Specification SP-575701-50-08

8.2.2 Deluge system piping and fittings downstream of the system water control valve shall be galvanized. Pipe and fittings on the supply side of the system water control valve shall not be galvanized. All aboveground piping shall be painted red.

8.2.3 Deluge system piping crossing an aisleway or access area shall be underground and shall be protected against corrosion as required. Coating and wrapping of steel pipe and fitting shall be per Specification SP-575701-50-81

8.2.4 Deluge system piping shall slope at not less than 1/2 inch in 10 feet. Low point drains shall be provided for trapped water and valved as required by NFPA. All test, drain, and flush connection to the local sump.

8.2.5 Cathodic protection of underground steel pipe shall be provided. The contractor shall provide an insulating flange set between all underground and aboveground piping.

8.3 Valves

8.3.1 The deluge valves shall be FM approved clapper-and-latch or diaphragm type with ball check valve trim, main and auxiliary drains, ball drip valve, drip funnel and support, pressure gages to indicate the pressure below the clapper (or diaphragm), break-glass control stations for local manual actuation, air and priming water connections, and electric alarm switch to signal water flow in the system at the local panel. Devices and connections for the following shall be provided:

A. Automatic fixed temperature thermal actuation

B. Additional electrical contacts for supervision

C. Trouble alarms

8.3.2 The deluge valves shall be mounted in an accessible location outside the respective protection zone. The deluge valve release shall be supervised for system integrity.

8.4 Strainer

8.4.1 An approved strainer with blow-off valve shall be provided in the feed main riser. The strainer shall be accessible for cleaning during a fire emergency.

8.4.2 Spray nozzles with orifices less than 1/8 inch shall be provided with individual strainers.

8.5 Supports

8.5.1 All supports shall be furnished, designed, and installed by CONTRACTOR. All piping shall be supplied with adequate sway bracing to prevent movement during operations.

8.5.2 Exterior supporting steel members shall be galvanized.

8.5.3 Hangers for support of piping and equipment shall be galvanized and shall be types approved for fire protection services. Supports shall not interfere with access to operating areas.

8.6 Fire Protection

8.6.1 The fire detection system shall include detectors and alarm devices with accessories required for supervised control, annunciation, and actuation of the deluge system. Detectors shall be in NEMA 4X fixtures, suitable for marine environment.

8.6.2 Each detector shall be a fixed temperature thermal, spot type, detecting unit designed for outdoor application. Detector contacts shall be designed to close when the fixed temperature exceeds 165°F. The detectors shall be self-restoring so that the contacts open when the temperature at the detector location drops below the activation temperature. All detectors shall be Fenwal Detect-A-Fire (Series 270 or 271), as manufactured by Fenwal, Inc., Ashland, Massachusetts, or approved equal. CONTRACTOR shall supply two spare detectors of each type furnished. The maximum spacing between the detectors shall be 8 feet around the periphery of the compressor and refrigeration skids.

8.6.3 Any failure of the detection system shall initiate local audible and remote audible and visual alarms but shall not cause the deluge valve to open.

8.6.4 All detectors and associated wiring shall be arranged such that continuity of the detector circuits is continuously monitored by "end of line" devices and problem automatically annunciated at the local control pane.

8.7 Local Control Panel

8.7.1 CONTRACTOR shall provide a local control panel for the deluge system, designed in accordance with applicable sections of NFPA 72A and 72D.

8.7.2 The local control panel shall be provided with an overcurrent protection device to protect the alarm initiating circuits from excessive amperage.

8.7.3 The panel shall be complete with zone indicating unit modules, solid-state control modules for input signals, output signals, and power supply.

8.7.4 The control panel shall provide for supervision of the deluge valve release circuit, and system water control gate valve, and shall initiate the audible and visual trouble alarm for abnormal conditions.

8.7.5 Upon receipt of a thermal or remote manual release signal, the deluge valve shall release and initiate an alarm at the local control panel signifying that the system is actuated.

8.8 Local Fire Alarm Bell

The local fire alarm bell directly actuated by the local control panel shall be 24 VDC rated and approximately 10 inches in diameter. The bell shall have a sound pressure level of 115 dBA at a distance of 10 feet. The bell shall be the vibrating type and shall be provided with a NEMA 4X fixture, suitable for marine environment.

8.9 Tools

8.9.1 CONTRACTOR shall furnish all tools, ladders, and temporary supports required for performance of the Work required by this specification.

8.9.2 CONTRACTOR shall furnish one set of any special tools required for the operation or maintenance of CONTRACTOR furnished equipment. CONTRACTOR shall provide a detailed list of all special tools furnished.

9.0 SURFACE CONDITIONS

9.1 CONTRACTOR shall examine the areas and conditions under which Work of this section will be performed. CONTRACTOR shall not proceed until unsatisfactory conditions are corrected.

9.2 It shall be the responsibility of CONTRACTOR to coordinate with BUYER or BUYER's authorized representative for the schedule and sequencing of installation prior to installation.

10.0 INSPECTION

10.1 BUYER shall be allowed access to CONTRACTOR's facilities from which the equipment shall be shipped. CONTRACTOR shall coordinate with BUYER or BUYER's authorized representative to schedule or waiver the inspection prior to the packaging of the equipment being shipped.

10.2 BUYER shall be permitted to inspect CONTRACTOR supplied equipment at the jobsite prior to installation.

10.3 During and after installation the system shall be subject to inspection for proper workmanship, appearance, and compliance with this specification.

11.0 SHIPPING, HANDLING AND STORAGE

11.1 Equipment shall be prepared for shipment after all shop tests have been completed.

11.2 Openings shall be covered and lifting points clearly marked.

11.3 CONTRACTOR shall be responsible for, and shall make all arrangements for, delivery, unloading and handling of all equipment, materials and tools, and for the storage of same in areas as designated by BUYER or BUYER's authorized representative.

11.4 CONTRACTOR shall provide protection for the equipment during transit and storage.

12.0 INSTALLATION

12.1 CONTRACTOR and all of his employees, subcontractors, etc., must at all times keep away from all parts of the site except the areas in which work is being done under this specification or the areas assigned for storage of materials. BUYER will assign a foreman to the project, and his direction shall be closely followed. At no

time shall any work commence or continue without the presence and direction of BUYER's foreman.

12.2 CONTRACTOR shall install the piping and equipment in accordance with the working drawings as accepted by BUYER.

12.3 Any deviations from the accepted drawings shall require prior acceptance by BUYER or BUYER's authorized representative.

12.4 CONTRACTOR shall install the equipment so that it will not interfere with piping, electrical conduit and structural members. If any such interferences exist or occur, CONTRACTOR shall make the necessary adjustment to permit satisfactory installation of the equipment without additional cost.

12.5 CONTRACTOR shall give adequate prior notice to BUYER of any requirements for BUYER-supplied services for installation and testing of the system.

12.6 All excess oil, dirt, pipe joining compound, rust, and mill scale shall be removed from piping and equipment. All dirt, debris, and excess cutting oil shall be removed from the interior of all piping and equipment before it is erected.

12.7 Open ends of all installed piping and equipment shall be covered at the end of each working day to prevent foreign material from entering.

13.0 IDENTIFICATION

13.1 CONTRACTOR shall furnish a master chart for each system and shall show the identification numbers and locations of all critical system components, valves, and instruments.

13.2 Control valves shall have engraved, two-color (white and black), laminated plastic labels with minimum 1/2 inch lettering. Labels shall be attached with bronze chains or drive screws.

13.3 Drain and test valves shall have brass tags not less than 2-1/2 inches in diameter, inscribed with 3/4 inch numbers. The tags shall be attached to the valves with non-ferrous chains.

14.0 TESTING

14.1 CONTRACTOR shall perform inspections and tests in accordance with this specification and applicable codes and standards.

14.2 CONTRACTOR shall flush the water supply connections in accordance with NFPA 13. Prior to testing, the deluge system shall be flushed to allow thorough cleaning. The flushing operation shall be documented and certified.

14.3 Piping shall be hydrostatically tested in accordance with the requirements of NFPA 13. After testing and acceptance, the system shall be thoroughly drained.

14.4 All operating parts, including automatic detection equipment, shall be fully tested to ensure their proper operation. Sensitivity of each detector shall be adjusted. CONTRACTOR shall perform a pattern test to ensure that complete coverage is obtained.

14.5 All tests performed by CONTRACTOR shall be conducted in the presence of BUYER's authorized representative, and representatives of all authorities having jurisdiction. Concerned parties shall be notified not less than 1 week in advance of the tests in order to acknowledge attendance at the tests. CONTRACTOR shall execute the Inspection Agreement of the National Automatic Sprinkler and Fire Control Association, Inc., and subsequent reports of inspection required by the Agreement.

15.0 CLEANUP

15.1 Before acceptance of the installation and when directed by BUYER or BUYER's authorized representative, CONTRACTOR shall remove the following:

15.1.1 Rubbish and debris resulting from the work.

15.1.2 CONTRACTOR-furnished equipment, tools, and temporary services and utilities.

15.1.3 Dirt, stains, and spatters resulting from the Work.

15.2 Equipment or areas damaged by CONTRACTOR shall be repaired, replaced, or restored to its original condition at no additional cost to BUYER.

FLUOR DANIEL

REVIEW/APPROVAL TRANSMITTAL
REQUEST FOR PURCHASE (RFP)

REQUISTIONER (Signature)	DATE	MASTER DESCRIPTION	RFP NUMBER
Wm W Scott	03-Jan-94	FIRE PROTECTION SENSORS & DETECTORS	424601-7-0022-00RP

Please Review/Approve the Attached Request for Purchase (RFP) Package.

Indicate your approval or disapproval by checkmarking the appropriate box. Forward the approved package to the next listed reviewer. Return disapproved packages to Requistioner. Indicate reason(s) for disapproval in the space provided below.

REVIEWER/APPROVER	TITLE	LOCATION	SIGNATURE (No Initials)	APPROVED YES	APPROVED NO	DATE
W. Scott	Fluor Daniel Inst. Engineer	FD-BFLD	Wm W Scott	✓		1/03/93
W. Linkus	Fluor Daniel Proj. Engineer	FD-BFLD				
R. Faber	Fluor Daniel Purc. Manager	FD-BFLD				
J. Langer	SWEPI Proj. Manager	SWEPI				

LAST APPROVER, FORWARD PACKAGE TO PURCHASING AGENT	LOCATION
Ron Faber	BFLD

COMMENTS:

SUPPLIER'S DRAWING AND DATA COMMITMENT

FLUOR DANIEL

DATE: December 15, 1993 REV.:

INQUIRY NO. 7-0022-00RQ SUPPLEMENT_____ DATE_____ PO NO._____ SUPPLEMENT_____ DATE_____

EQUIPMENT TAG NUMBERS FIRE PROTECTON SENSORS AND DETECTORS SERVICE _____

SUPPLIER DETECTION SYSTEMS INC., 10611 Calle Lee, Unit 121, Los Alamitos, CA, 90720 phone 1-714-995-7185
ATTN FRANK DAGERMAN _

INSTRUCTIONS:

1. All drawings/data submitted must be marked with PURCHASE ORDER NUMBER and EQUIPMENT TAG NUMBER(S).
2. Identical items may be represented on common drawing with all EQUIPMENT TAG NUMBERS clearly shown.
3. All drawings/data submitted must be of good quality that will allow production of legible copies and microfilming.
4. The PURCHASER will specify in Column I the QUANTITY and TYPE CODE. These codes are described as follows:

   A = Certified Reproducible Transparencies submitted to Purchaser for Authorization to proceed.
   B = Certified Reproducible Transparencies submitted to Purchaser for information ONLY.
   P = Number of copies of Data required for Information Only.

5. The SUPPLIER enters in Column IV the PROMISED SUBMITTAL time (in weeks) after award of Purchase Order. The Purchaser will assign priorities in Column III to drawings/data (HIGHEST PRIORITY = LOWEST number). SUPPLIER will return this form to Fluor Daniel with his QUOTATION. The SUPPLIER'S signature is required.
6. The DUE DATE (Column V) will be entered by the Purchaser at the time the PO is issued. The DUE DATE will be based upon the promised submittal time furnished by the SUPPLIER (Column IV). Upon receipt of the PO, the SUPPLIER must provide the Purchaser the drawings and data as specified.

DRAWINGS/DATA REQUIRED BY PURCHASER

I	II	III	IV	V
TYPE OR QTY	DESCRIPTION	PRIORITY	SUPPLIER PROMISED SUBMITTAL (WEEKS)	DATE DUE TO PURCHASER
1	DIMENSIONAL OUTLINE DRAWING		2 WKS ARO	
2A	PIPING/CONNECTION DRAWINGS see Note 3 on pg 2		N/A	
2A	ELECTRICAL WIRING/ CONNECTION DRAWINGS see Note 4 on pg 2		N/A	
2A	CERTIFIED TEST DATA PERFORMANCE CURVES(AS APPLICABLE)		2 WKS ARO	
2B	COMPLETE CATALOG SHEETS OF SPECIFIED ITEMS		1 WK ARO	
2P	RECOMMENDED SPARE PARTS LIST FOR 1 YEAR OPERATION WITH PRICES		2 WKS ARO	
2P	COMPLETE PARTS CATALOG		2 WKS ARO	
6P	INSTALLATION, OPERATION AND MAINTENANCE MANUAL		2 WKS ARO	

CERTIFIED BY:_____ COMPANY:_____ DATE:_____

NOTES

1) Vendor data shall be identified by the model/ type, and applicable instrument tag numbers.

2) All identical instruments can be represented by one (1) common certified reproducible providing all instrument tag numbers are clearly stated on the certified reproducible.

3) Drawings shall show overall and clearance dimensions, size, rating, and location of piping connections. When applicable, drawings should also show specified orientation and materials of components.

4) Drawings shall show conduit connection size and location, terminal location and identifiction, electrical classification, voltage and power consumption required.

5) Include sub-suppliers equipment.

FLUOR DANIEL 03-Jan-94

ENGINEERING
BILL OF MATERIAL

RFQ NUMBER: 424601-7-0022-00RP W.SCOTT
MASTER DESCRIPTION: FIRE PROTECTION SENSORS AND DETECTORS

	VENDORS DATA		REF. DRWGS.	
ITEM	ITEM IDENTIFICATION OR TAG NUMBER	DESCRIPTION	CATALOG NO. OR INSTR DATA SHT.	QUANTITY
1	AE-1101A	Combustible Sensor	11.01.03	1
2	AE-1101B	Combustible Sensor	11.01.03	1
3	AE-1101C	Combustible Sensor	11.01.03	1
4	AE-1101D	Combustible Sensor	11.01.03	1
5	AE-1101E	Combustible Sensor	11.01.03	1
6	AE-1101F	Combustible Sensor	11.01.03	1
7	AE-1101G	Combustible Sensor	11.01.03	1
8	AE-1101H	Combustible Sensor	11.01.03	1
9	AE-1101I	Combustible Sensor	11.01.03	1
10	AE-1149A	H2S, Toxic Gas Sensor	11.01.04	1
11	AE-1149B	H2S, Toxic Gas Sensor	11.01.04	1
12	AE-1149C	H2S, Toxic Gas Sensor	11.01.04	1
13	AE-1148A	UV/IR Flame Detector	11.01.05	1
14	AE-1148B	UV/IR Flame Detector	11.01.05	1
15	AE-1148C	UV/IR Flame Detector	11.01.05	1
16	AE-1148D	UV/IR Flame Detector	11.01.05	1
17	AE-1148E	UV/IR Flame Detector	11.01.05	1
18	AE-1148F	UV/IR Flame Detector	11.01.05	1
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				

FLUOR DANIEL	SPEC NO: 11.01.03	REV. 0
INSTRUMENT SPECIFICATIONS	P.O.:424601-7-0022	DATE: 12/17/93
	MANUFACTURER: GENERAL MONITOR	
FOR: SWEPI	BY: WYS / CHK'D: SP / APPR'D:	
	NO. / DATE / BY / REVISION	
AMBIENT COMBUSTIBLE SENSR		

AREA	TAG NUMBER	SERVICE/REMARKS
	SEE PAGE 2	

GENERAL	
2. Function	Ind. [X] Control [ ] Trans. [X]
3.*Case	Mfr.Std. [X] Nom.Size _____ Color: Mfr.Std. [X]
4. Mounting	Flush [ ] Surface [X] Yoke [ ] 2" Pipe [ ] Other ____
5. Enc.Class	G.P. [ ] W.P. [ ] Ex.P. [X] Class I, Div. 2,Grp. D
	For Intrinsically Safe System [ ] Other: _____
6. Pwr.Supply	117VAC [ ] dc [X] Volts: 24VDC
7.	
8.	
9.	
10. Transmitter Output	4-20 mA[X] 3-15 psig[ ] Adj.Damp [ ] Other: _____
	Calibration: 0-100% LEL
11. Alarm Sw.	Quantity: 0 Form: NA Rating: _____
12. Alarm Func.	Meas.Var. [ ] Dev. [ ] Contacts _____ on Inc. Meas.
SENSOR	
13. Style	Directional [ ] Omni-dir [ ] Ambient [X]
14. Mounting	Flush [ ] Surface [X] Yoke [ ] 2"Pipe [ ] Other W/TRANS
15. Body	Type: _____ Model: _____
16. Materials	Body: _____
17. Rating	Pressure: _____ psig Temperature: _____ °C
18. Range	Adj. Range: _____ Set at: _____
19. Connection	Type & Rtg: _____
20. Temp.Comp.	Manual [ ] Automatic [ ] Model: _____
21. Cable	Type: _____ Length: _____

PROCESS CONDITIONS	Minimum	Normal	Maximum	Units
	Fluid:			
23. Temperature	20	75	90	DEG. F
24. Pressure	14.7			PSIA
25.				
26.				
27.				

27. OPTIONS	LOCAL INDICATOR
28.	SPLASH GUARD (P/N 10395-1)
28.*Mfr.& Model	GENERAL MONITOR S104 w/ DISPLAY

NOTES:
1. Permanently affix stainless steel identification tag with Tag No.
2. Asterisked* items shall be supplied by Manufacturer unless specified.
3. All accessories shall be mounted.
4. All electrical apparatus shall be suitable for Class I,Div.2,Gr.D

AREA	TAG NUMBER	SERVICE/REMARKS
09	AE-1101A	GAS COMP.K-601 AREA, COMBUST. "A"
09	AE-1101B	GAS COMP.K-601 AREA, COMBUST. DECT. "B"
09	AE-1101C	PROPANE COMP ME-800 COMBUST. SENSOR "C"
09	AE-1101D	PROPANE COMP ME-800 COMBUST. SENSOR "D"
09	AE-1101E	DCU AREA COMBUST. SENSOR
09	AE-1101F	GLYCOL COMP ME-700 AREA COMBUST SENSOR
09	AE-1101G	FLARE, H-1 AREA COMBUST. SENSOR "G"
09	AE-1101H	DCU CONTROL ROOM COMBUST. SENSOR "H"
09	AE-1101I	DCU CONTROL ROOM COMBUST. SENSOR "I"

FLUOR DANIEL	SPEC NO: 11.01.04			REV. 0
INSTRUMENT SPECIFICATIONS	P.O.:424601-7-0022			DATE: 12/17/93
	MANUFACTURER: GENERAL MONITOR			
FOR: SWEPI	BY: WYS	CHK'D: SP	APPR'D:	
	NO.	DATE / / / / / /	BY	REVISION
AMBIENT H2S SENSOR/TRANS				

AREA	TAG NUMBER	SERVICE/REMARKS
	SEE PAGE 2	

GENERAL	
2. Function	Indicate [X] Transmit [X]
3.*Case	Mfr.Std. [X] Nom.Size _____ Color: Mfr.Std. [X]
4. Mounting	Flush [ ] Surface [X] Yoke [ ] 2" Pipe [ ] Other _____
5. Enc.Class	G.P. [ ] W.P. [ ] Ex.P. [X] Class I ,Div.2, Grp. D
	For Intrinsically Safe System [ ] Other: _____
6. Pwr.Supply	117VAC [ ] dc [X] Volts: 24 Other: _____
7. Receiver	See Specification: _____
10. Transmitter Output	4-20 mA[X] 3-15 psig[ ] Adj.Damp [ ] Other: _____
	Calibration:
11. Alarm Sw.	Quantity: ___ Form: _____ Rating: _____
12. Alarm Func.	Meas.Var. [ ] Dev. [ ] Contacts _____ on Inc. Meas.
SENSOR	
13. Style	Directional [ ] Omni-Dir [X] Ambient [ ]
14. Mounting	Flush [ ] Surface [ ] Yoke [ ] 2" Pipe [ ] Other W/TRANS
15. Housing	Type: _____ *Model: _____
16. Materials	Housing: _____
17. Rating	Pressure: _____ psig Temperature: _____ °C
18. Range	Adj. Range: Set at:
19. Measuring	Type: _____ *Model: _____
20.	
21. Temp.Comp.	Manual [ ] Automatic [ ] *Model: _____
22. Cable	Type: _____ Length: _____
PROCESS CONDITIONS	Fluid/GAS: H2S AMBIENT

	Minimum	Normal	Maximum	Units
23. Temperature	20	76	90	Deg. F
24. Pressure	14.7	14.7	14.7	PSIA
25.				

26. OPTIONS	LOCAL INDICATOR
27.	SPLASH GUARD (P/N 10395-1)
28.*Mfr.& Model	GENERAL MONITOR S204

NOTES:
1. Permanently affix stainless steel identification tag.
2. Asterisked* items shall be supplied by Manufacturer unless specified.
3. All accessories shall be piped & mounted.
4. All electrical apparatus shall be suitable for Class I,Div.2,Gr.D

AREA	TAG NUMBER	SERVICE/REMARKS
09	AE-1149A	GAS COMP.K-601 AREA H2S SENSOR "A" H2S
09	AE-1149B	PROPANE COMP ME-800 AREA H2S SENSOR "B" H2S
09	AE-1149C	DCU YARD AREA H2S SENSOR "C" H2S

FLUOR DANIEL	SPEC NO: 11.01.05	REV. 0
INSTRUMENT SPECIFICATIONS	P.O.:424601-7-0022	DATE: 12/17/93
	MANUFACTURER: GENERAL MONITOR	
FOR: SWEPI	BY: WYS / CHK'D: SP / APPR'D:	
	NO. / DATE / BY / REVISION	
FIRE (UV/IR) DETECTOR		

AREA	TAG NUMBER	SERVICE/REMARKS
	SEE PAGE 2	

GENERAL	
2. Function	Indicate [ ] Transmit [X]
3.*Case	Mfr.Std. [ ] Nom.Size _____ Color: Mfr.Std. [X] _____
4. Mounting	Flush [ ] Surface [ ] Yoke [ ] 2" Pipe [ ] Other SEE OPTN
5. Enc.Class	G.P. [ ] W.P. [ ] Ex.P. [X] Class I, Div.2, Grp. D
	For Intrinsically Safe System [ ] Other: _____
6. Pwr.Supply	117VAC [ ] dc [X] Volts: 24 Other: _____
7. Receiver	See Specification: _____
10. Transmitter Output	4-20 mA[X] 3-15 psig[ ] Adj.Damp [ ] Other: _____
	Calibration:
11. Alarm Sw.	Quantity: ___ Form: _____ Rating: _____
12. Alarm Func.	Meas.Var. [ ] Dev. [ ] Contacts _____ on Inc. Meas.
SENSOR	
13. Style	Directional [X] Omni-Dir [ ] Ambient [ ]
14. Mounting	Flush [ ] Surface [ ] Yoke [ ] 2" Pipe [ ] Other SEE OPTN
15. Housing	Type: SEE TRANS *Model: _____
16. Materials	Housing: _____
17. Rating	Pressure: ATMOS. psig Temperature: _____ °C
18. Range	Adj. Range: Set at:
19. Measuring	Type: _____ *Model: _____
20.	
21. Temp.Comp.	Manual [ ] Automatic [ ] *Model: _____
22. Cable	Type: _____ Length: _____

PROCESS CONDITIONS

Fluid:UV/IR FLAME

	Minimum	Normal	Maximum	Units
23. Temperature	20	76	90	Deg. F
24. Pressure	14.7	14.7	14.7	PSIA
25.				

26. OPTIONS	MOUNTING HARDWARE W/ SWIVEL (P/N 961-003 & 961-004)
27.	
28.*Mfr.& Model	GENERAL MONITOR FL3000

NOTES:
1. Permanently affix stainless steel identification tag.
2. Asterisked* items shall be supplied by Manufacturer unless specified.
3. All accessories shall be piped & mounted.
4. All electrical apparatus shall be suitable for Class I,Div.2,Gr.D

AREA	TAG NUMBER	SERVICE/REMARKS
09	AE-1148A	GAS COMP.K-601 AREA FLAME DETECTOR "A" UV/IR
09	AE-1148B	GAS COMP.K-601 AREA FLAME DETECTOR "B" UV/IR
09	AE-1148C	PROPANE COMP ME-800 AREA FLAME DET."C" UV/IR
09	AE-1148D	PROPANE COMP ME-800 AREA FLAME DET."D" UV/IR
09	AE-1148E	DCU NW YARD AREA FLAME DETECTOR "E" UV/IR
09	AE-1148F	GLYCOL COMP ME-700 AREA FLAME DET. "F" UV/IR

5. Table 1-2 "Hazardous Materials" (page 1-18):

    1. Ethylene Glycol is also combustible in it's pure form. Table only states "moderately toxic".

    2. Need MSDS for decanol, ammonium bisulfite, ammonium thiosuflate, and pluronic.

6. Table 1-3 Equipment Removal:

    Equipment abandonment and removal will require a plan and Fire Department permits.

7. Page 1-32: Paragraph 35:

    States that a rotten egg smell from H2S may emulate from the plant. This should not occur if the system is designed correctly and I doubt the SCAQMD people will allow this.

8. Page 1-32; Paragraph 36:

    Discusses rainwater drainage and states that it is collected in pits and is pumped into storm water surge tanks, etc. This needs evaluation for compliance with Article 79 and 80 UFC. (Section 12 FPP should cover you on this one.)

9. Page 1-35; Section 47

    Need MSDS or other information on the waste stream. 34,700 pounds of waste are generated per year.

10. Page 2-14; Sec 2.10 Risk of Upset:

    Concurrence with this section should be subject to Fire Department review of the toxic and flammable footprints.

11. Page 2-19 Paragraph Q:

    "Will the proposal result in exposure of people to potential health hazards?"

    Concurrence with this section should be subject to Fire Department review of the toxic and flammable footprints. The risk of exposure to workers on-site will obviously differ from the risk of off-site exposure. OSHA regulations must be complied with on site, including the hazardous waste risks. It may be found that provisions should be required to facilitate education and notification of the

persons living and using surrounding properties. Older, less energy efficient, structures in proximity to the site may need to be "tightened up" to better facilitate sheltering-in-place (made more air tight to reduce infiltration), depending upon the "footprint".

Appendix B: Properties of Hazardous Materials:

MSDS needed for materials on this table where information is listed as unavailable.

Appendix C: Fire Protection Plan:

This is subject to Fire Department approval. My latest comment letter is dated 8/3/91.

Appendix D: Closure Plan:

Subject to Fire Department approval and Fire Code permits.

Thank You,

Jim Hunt

JH/co

Hunt Research Corporation
JAMES W. HUNT, President [805] 688-4625

8-6-91
Bodenbender

August 3, 1991

Captain Mark Bodenbender
Oil Field Inspector
Huntington Beach Fire Department
2000 Main Street
Huntington Beach, California 92648
Fax: (714) 374-1551

In Re: Review of Revised Flour
Daniel Fire Protection Plan

Dear Mark:

I have reviewed the revised Fire Protection Plan (FPP) for the Shell SWEPI Gas Plant. I received this plan on 7/17/91.

My comments are as follows. They have asterisks as per the FPP:

Section 2.4; Page 2 (Project Description): (no asterisk)

I still feel that this plan should state the "design" H2S concentration in PPM, the amount of gas processed per day, the amount of NGL, sulfur, Ethylene Glycol, etc. The process flow diagrams do not clearly provide this information. For project permitting purposes this information should be clearly stated and include flash points, ignition temperatures and unique hazards. MSDS sheets may not be available for the site specific raw products. They can put this information in the Appendix. Also see Section 4.3 (Ref: your 5/6/91 letter).

Section 4.2 (Modeling): *

Fire Department should see the toxic and flammable footprints prior to issuing any approvals. These should be based upon the "design" throughput and concentrations.

Section 5.1.1, 5.1.2 & 5.1.3; Firewater System: **

These paragraphs should also state that PSI shall be to approval of Fire Department. They state that flow will be, but obviously PSI must also. As an example, many designers do not realize that firefighters want 100 PSI flowing pressure at monitor and hose reel nozzles (Ref: your 5/6/91 letter).

Section 5.1.5: **

Fire water system: Add the words "fire pumps".

Section 5.1.7: **

Minimum main size is stated to be 6". Does this meet the Huntington Beach Fire Department standards? (Ref: your 5/6/91 letter).

Section 5.1.8; Fire Mains: **

Mark note: Existing firewater mains should be test flowed at needed fire flow rates and should be hydrostatically tested. If these pipes are old unlined (and perhaps uncoated) steel they are probably tuberculated and corroded. In addition, they may contribute debris to the water and clog fire systems.

Section 5.1.11; Duration of Fireflow: **

Add: Water should be "clean" so as to not clog or damage fire protection systems (Ref: your 5/6/91 letter).

Section 5.2.1; Fire Pumps: **

Add "and PSI" after the words "minimum flow".

Section 5.2.2: **

Should state that flowing nozzle pressures should be 100 PSI (Ref: your 5/6/91 letter).

Be advised that it appears they are not proposing a pump house. Obviously, salt air exposure will be a problem unless salt air resistant equipment enclosures and protection are provided. I prefer an enclosed pump room.

Section 7.6; Gas/Fire Detection & Shutdowns: **

Paragraph 7.6 "cross checked" should be "cross zoned".

Audible and visible alarms should also be located in the plant. Text says control room (Ref: your 5/6/91 letter).

Section 14; Offsite Monitoring & Protection of Public: * (This relates to the issue raised for Section 4.)

Down

Section 15; Location & Separation of Equipment (site layout): **

I plan to review this plot plan at this point in time. I have requested a full size drawing from Flour. I will provide you a report on the results of my review.

Section 19; Emergency Power: (no asterisk) AUTOMATIC.

OK. Note: Battery backup for the fire detection panels and annunciation should be to approval of the Fire Department. 24 HR. MIN.

Section 20; Portable Fire, Safety & Monitoring Equipment: **

OK Portable gas detectors and EMS equipment should be included on this list (Ref: your 5/6/91 letter). EXPLAIN STANDARD F.A.

Section 27; Site & Equipment Abandonment Plan: **

OK Add: Shall comply with Huntington Beach Fire Department specifications 427 and 431 (Ref: your 5/6/91 letter).

Section 28; Applicable Codes & Standards: (Page 14) (no asterisk)

CHECK Add UBC (Ref: your 5/6/91 letter).
Add NFPA 655 (Ref: your 5/6/91 letter). SUCTION

Section 30; Five Year Upgrade Program for Tank Farm #1: *

They should add second asterisk per your 5/6/91 letter.

Appendix "A": (foam) (no asterisk)

More information on the foam will be needed:

- Has it been tested for quality and deterioration?
- Is it AFFF?
- Is the mutual aid foam AFFF?
- Is this a signed mutual aid agreement?
- What is the response time and who can order it?
- How is it transported and by whom?

I suggest you review my comments and decide which ones you feel should be sent to SWEPI for inclusion in the plan, and which ones you feel will not pose a problem in gaining compliance without being specifically stated in the plan. My experience has been that the biggest compliance and approval issues will involve the firewater system, the alarm system and equipment spacing. I will also be reviewing the "Negative Declaration" you sent me.

There are two ways to go:

1. Send these comments and ask them to be included for clarity to avoid future misunderstandings.

2. Accept plan as is except for Sections 2.4, 4.2, 5.1.8, 14, 20, 27 and 30, and rely on the two asterisk notations to provide Fire Department with ample approval/disapproval authority.

   The SWEPI asterisk legend is as follows:

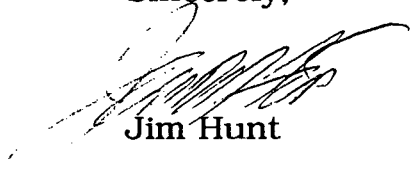
   Sections 5, 7, 15, 20 and 27 have 2 asterisks (approval needed by Fire Department).

   Sections 4, 14 and 30 have one asterisk (Fire Department review only).

   Section 2, 19, 28 and Appendix "A" have no asterisk (apparently intimating no approval or review by Fire Department).

   I prefer option #1, however the City's philosophy, style and posture towards this project may prefer option #2.

Sincerely,



Jim Hunt

CC: file

JH/co

AERA

FIRE DEPARTMENT

August 4, 2000

2000 AUG -4 P 2:38

Duane S. Olson, Fire Marshall
City of Huntington Beach Fire Department - Fire Protection Division
Fire Administrative Office
2000 Main Street
Huntington Beach, CA 92648

SUBJECT: RELEASE OF MAY 22, 2000
AERA ENERGY LLC FACILITY
20101 GOLDENWEST STREET, HUNTINGTON BEACH

Dear Mr. Olson,

Thank you for meeting with us on July 25th. I believe that we now have a much better understanding of your concerns. As we stated in the meeting, Aera is committed to work with you, the California State Lands Commission, and other agencies as appropriate to expeditiously address concerns that may exist regarding operations at our Huntington Beach facility. The following information addresses the specific concerns discussed in the July 25th meeting.

I. May 22 Release Event

Composition of Released Gas: Attachments A-1 and A-2 are analytical results displaying the composition of two hydrocarbon gas streams in our facility that we believe are representative of the gas released to atmosphere during the subject event. Attachment A-1 is the analysis of a gas sample from free water knock-out (FWKO) vessel 111, one of the three FWKO vessels that released gas to the atmospheric relief system on May 22. Attachment A-2 is the analysis of a gas sample taken at a point where the gas streams from all seven of the facility's FWKO vessels are combined with gas from the facility's tank vapor recovery system. The analyses show that the compositions of these two streams are similar.

On May 24, gas from each of the three FWKO vessels that contributed to the release was sampled with the use of Sensidyne tubes to determine approximate H2S concentrations. The results were:

FWKO 111: 700 ppmv
FWKO 114: 250 ppmv
FWKO 115: 30 ppmv

Volume of Gas Released: We have estimated the volume of gas that was released by conducting a material balance calculation on the systems involved. For each of the three FWKO vessels involved, we calculated the volumes of gas and liquid phases present in the vessels and the associated upstream gathering and well systems at the time power was lost (which closed the outlet valves on the FWKO vessels). Using these volumes and the average system pressures at the time power was lost, we then calculated the volume of gas that would need to be expelled to allow each system to equalize at the set pressure of the vessels' relief valves (60 psig). The results of this calculation were:

FWKO 111: 1300 scf
FWKO 114: 1300 scf
FWKO 115: 7600 scf

Total: 10,200 scf

Amount of H2S Released: Given the above release volumes and H2S concentrations, the amount of H2S released was calculated to be:

FWKO 111: 0.08 lbs
FWKO 114: 0.03 lbs
FWKO 115: 0.02 lbs.

Total: 0.13 lbs (the Federal Reportable Quantity for H2S is 100 lbs)

Dispersion Modeling: Using the estimated release volumes, the measured H2S data, and meteorological data for May 22 obtained from the National Weather Service, a vapor cloud dispersion modeling program (DNV Technica's PHAST Software) was utilized to assess the potential threat to public health and safety as a result of exposure to H2S. A summary of the modeling is included as Attachment B. Cases were run for releases from each vessel individually (Graphs 1, 2, and 3) and for a joint plume resulting from a simultaneous release from all three vessels (Graphs 4). Additionally, each of these cases were run for two different release volume scenarios; the August 3 report used the release volumes noted above and the July 26 report used higher volumes. The modeling results show that, in the joint plume scenarios (Graphs 4), the odor threshold for H2S (.0094 ppmv) would not have been exceeded beyond 55 feet downwind of the release point and the Emergency Response Planning Guideline (0.1 ppmv) would not have resulted more than ten feet downwind of the release point. The facility fence line is approximately 300 feet from the release point at its closest point and the nearest existing residence is approximately 1500 feet from the release point.

These dispersion modeling results point to a conclusion that there was not a threat to public health and safety related to the presence of H2S in the May 22 release. However, it does not allow any conclusion to be drawn regarding the potential for hydrocarbon odors to have migrated beyond the fence line. We will do additional dispersion modeling to investigate this possibility.

II. Interim Corrective Action / Mitigation Measures

Our interim corrective actions in response to the May 22 event are comprised of increased electrical system monitoring and changes to facility operating procedures, including:

1) increased monitoring of electrical grid system status,
2) ensuring redundancy in the systems providing us with advance warning of approaching service interruption requests, and
3) modifying and testing our procedures of shutting down the facility in a short time frame while minimizing the potential for releases. These procedures now also include shutting down wells driven by IC engines, and high water cut wells as necessary, during the Stage 1 alert (prior to receiving the 30 minute notification to shut down).

Attachment C provides a summary of the monitoring process we are currently using and the corresponding actions we take as dictated by the system status as determined by the monitoring. Since our meeting on the 25th, we have had occasion to implement these procedures on three separate occasions when service interruption requests have been initiated. This occurred on the afternoons of July 31st, August 1st, and August 2nd. In all three instances, we successfully shut down all facility systems and wells within the thirty minute notification window while preventing any detectable release of gas from our systems and equipment.

We are also evaluating additional facility modifications to further decrease the potential for releases of gas or any other potentially adverse impacts that could result from any loss of electrical service to our facility. We will advise you on the status of this effort in approximately one month.

III. Training and Drills

Release Reporting: Aera is committed to provide frequent training to ensure that all employees understand our release reporting procedures. Attachment D is a flow chart depicting those procedures. It has been our practice to provide this training on an informal basis during morning meetings and occasionally during monthly safety meetings, both attended by all on-duty employees. We will continue this practice and also create a call-up to ensure that no more than three months pass without refresher training. The failure that occurred in our internal reporting process during the May 22 event has been addressed directly with the individual involved and with all employees in morning meetings.

Our employees are trained to immediately (after taking appropriate safe action to stop or control the release) notify a supervisor or an Environmental, Health and Safety (EHS) Field Advisor when a release of any kind is discovered. The supervisor or EHS Field Advisor will then ensure that appropriate external and additional internal company notifications are made. The supervisory representative for the Huntington Beach facility

will typically be the Process Supervisor; Tony DeVito currently holds this position. The facility has two on-site EHS Field Advisors; Milan Steube and Sue Gonzales currently hold these positions. All three of these people, as well as several other on site exempt staff / supervisory personnel are trained in external release reporting procedures, have ready access to emergency response plans and guidance documents, and are available around the clock via pagers or home phone numbers. In addition, other Aera EHS personnel who are experts in release reporting and emergency response are readily available via telephone or pager at other Aera field locations in California or Aera's headquarters office in Bakersfield. Contact names and numbers for all of the above personnel are available on Emergency phone lists posted at key locations in the facility, in emergency response plan documents, and on Aera's Intranet and E-mail systems.

Our employees are also trained to bypass the internal reporting process and call "911" directly if they are confronted with a situation that poses an immediate significant threat to life, health, property, or the environment.

Regarding external reporting of release events, Aera will ensure that your agency receives timely and accurate notification of any unauthorized discharge from its facility in accordance with the Huntington Beach municipal code.

Shutdown Procedures:

As a result of the May 22 event, we have developed a written, step-by-step shutdown procedure for interruptible power events. It is based on a procedure previously used successfully for planned shutdowns, but required some modifications to specifically address the required 30 minute implementation period and the goal of preventing releases. Operating personnel participated in the development of this procedure and most of them now have first hand experience in implementing it. To further ensure we are prepared to effectively implement this procedure when needed in future years, we will conduct a simulated drill during the second quarter of each year (prior to peak electrical demand season).

For scheduled shutdown events, we will continue our historic practice of involving our operating personnel in developing event-specific written procedures which are then reviewed and discussed with employees as part of the planning for each event. Examples of this are a facility-wide maintenance shutdown that is normally scheduled at least once per year and other periodic planned shutdowns that usually affect only portions of the facility.

IV. Interruptible Power Contracts.

We are forwarding copies of our contracts with SCE to our legal department for review and determination of the feasibility of converting to a non-interruptible service contract for our facility.

CLOSING

We will continue to communicate with you as additional information becomes available. In the meantime, please feel free to contact me at (805) 648-8201 or any of the Aera staff members at the Huntington Beach facility any time you have specific questions or concerns.

Again, thank you for meeting with us on July 25th. I look forward to open communications with you and your agency as Aera continues to improve its facility and operations at its Huntington Beach facility.

Sincerely,

A. E. Mueller
Operating Vice President – Coastal Asset

Attachments

Cc: (w/Attachments)
Mr. Tim Greaves, Deputy Fire Marshall, City of Huntington Beach Fire Department

ATTACHMENT A-1

Aera Energy LLC
Analytical Report

Date Analyzed: 04/10/2000 2:01 PM

Sample Name: **Emmy Knock Out #9**

Total BTU cu/ft^3 (Dry std): 1240.9
Total BTU cu/ft^3 (Wet std): 1219.2

Specific Gravity: 0.8484

Natural Gas Report

Component Name	MOL %	gal / MCF
Oxygen	0.162	
Nitrogen	0.810	
Carbon Dioxide	8.338	
Methane	74.802	
Ethane	2.877	
Propane	5.060	1.397
I-Butane	1.419	0.465
N-Butane	2.574	0.813
I-Pentane	0.898	0.329
N-Pentane	0.592	0.214
C6+	2.468	1.015
SUM (Total):	100.000	4.233
SUM (C_4 +) :		2.836
SUM (C_5 +) :		1.557

ND = None Detected

ATTACHMENT A-2

Aera Energy LLC
Analytical Report

Date Analyzed: 04/10/2000 11:35 AM

Sample Name: **Tank Farm 1 Master #2**

Total BTU cu/ft^3 (Dry std): 1136.7
Total BTU cu/ft^3 (Wet std): 1116.8

Specific Gravity: 0.7973

Natural Gas Report

Component Name	MOL %	gal / MCF
Oxygen	0.207	
Nitrogen	1.091	
Carbon Dioxide	9.117	
Methane	78.439	
Ethane	2.055	
Propane	3.319	0.916
I-Butane	0.984	0.323
N-Butane	1.792	0.566
I-Pentane	0.648	0.237
N-Pentane	0.473	0.171
C6+	1.875	0.771
SUM (Total):	100.000	2.984
SUM (C_4 +) :		2.068
SUM (C_5 +) :		1.179

ND = None Detected

AERA

May 30, 2000

Assistant Deputy Executive Officer
Stationary Source Compliance / Major Source
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Dear Sir or Madam,

SUBJECT: REPORT OF EQUIPMENT BREAKDOWN – MAY 22, 2000
AERA ENERGY LLC – HUNTINGTON BEACH FACILITY (#104017)
ELECTRICAL FAILURE

Pursuant to the requirements of SCAQMD Rule 430, this is Aera's written follow-up report for the subject breakdown.

At approximately 2:45 p.m. on May 22, 2000, the California Independent System Operator ordered an interruption of power service to various "interruptible" customers. The interruption, which lasted about two hours, was required due to unusually high demand for electricity in the Southern California area and resulted in a sudden unexpected shutdown of the subject facility. Power was restored at approximately 4:45 p.m. and the facility was gradually returned to normal operation over the next few hours.

The unexpected loss of power and the resulting sudden shut down of facility equipment and systems resulted in temporary pressure surges in the facility's fluid handling systems. These temporary pressure surges caused intermittent venting of hydrocarbon gas to atmosphere via the emergency relief vent system on three of the facility's seven free water knock-out vessels (specifically, Devices 6, 7, and 8). Although the emergency relief system on these vessels operated exactly as designed, this condition is a violation of Condition E-4 of the Facility Permit, which requires air pollution control equipment (i.e., the facility's gas processing and vapor recovery systems) to be "in full use".

An Aera operating employee observed the intermittent venting, but was not aware of the requirements to immediately report it. Milan Steube, Aera's Environmental Advisor, notified AQMD (1-800-CUT-SMOG; Evelyn) immediately upon learning of the relief event. Unfortunately, this did not occur until the following day (May 23). As Mr. Steube discussed with the District's Mr. Owen Amayo on May 25, reporting requirements have been reinforced with all facility employees as part of Aera's follow up to this event.

The intermittent venting occurred over a period of approximately one hour following the loss of power to the facility (i.e., from 2:45 p.m. to 3:45 p.m.). Since the flow rate and exact duration of each intermittent relief event could not be measured or recorded, estimation of the amount of hydrocarbon emissions is highly speculative, but estimated to have been approximately 500 pounds of VOC's.

In an attempt to prevent recurrence of this event, Aera's follow up plan is to conduct a thorough re-examination of:

(1) the manner in which the facility receives warning of a pending power interruption, and
(2) what operational and / or design adjustments might be made to avoid conditions that lead to atmospheric venting when power interruptions do occur (or are anticipated).

Please contact Milan Steube at (714) 969-3234 or at the letterhead address if you require any further information.

Sincerely,

for

W. A. Morris
Manager of Operations - L.A. Basin

Aera Energy LLC – Huntington Beach Facility
Gas Release Event of May 22, 2000

Summary of Follow-Up Actions Taken or Being Taken

1. **Improved State of Readiness for Future Power Interruptions**

   a. We are now monitoring Southern California Edison's web site to get earlier warning (i.e., several hours) of possible power interruptions. This will allow adjustments to be made to plant process equipment that will help minimize the likelihood of a gas release if a power interruption should occur.
   b. We have arranged for our Plant Operator to automatically receive a page from Southern California Edison prior to a pending power interruption. This will occur thirty minutes prior to the actual interruption and will facilitate any additional adjustments that can be made to plant process equipment to minimize the likelihood of a gas release when the power is actually interrupted (may include voluntarily shutting down selected equipment prior to the actual loss of power).

2. **Operational / Design Adjustments.**

   a. Reviewed gas release reporting requirements with personnel.
   b. Reviewed / updated facility shutdown procedures with personnel.
   c. An engineering review of current facility design and operation is being conducted that may identify opportunities for additional improvements.

3. **Equipment Inspection & Repair.**

   a. Replaced electrical breaker that did not operate properly (i.e., did not shut down certain equipment) during May 22 event.
   b. During the two weeks following the May 22 event, a third party inspection service conducted a thorough inspection of the entire facility. Several vapor leaks were identified and repaired.
   c. Another facility inspection by this third party will be conducted in July and on at least a quarterly basis in the future.
   d. A thorough review of the operation of the facility's vapor recovery system is being scheduled. This is a "fine-tuning" effort to further minimize the likelihood of vapor leaks from facility tanks and pressure vessels.

TRANSMISSION VERIFICATION REPORT

TIME : 06/22/2000 08:43
NAME : HUNTINGTON BEACH FD
FAX : 7143741551
TEL :

DATE,TIME	06/22 08:40
FAX NO./NAME	95360239
DURATION	00:03:04
PAGE(S)	04
RESULT	OK
MODE	STANDARD

AERA

May 30, 2000

Assistant Deputy Executive Officer
Stationary Source Compliance / Major Source
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

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The intermittent venting occurred over a period of approximately one hour following the loss of power to the facility (i.e., from 2:45 p.m. to 3:45 p.m.). Since the flow rate and exact duration of each intermittent relief event could not be measured or recorded, estimation of the amount of hydrocarbon emissions is highly speculative, but estimated to have been approximately 500 pounds of VOC's.

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(1) the manner in which the facility receives warning of a pending power interruption, and
(2) what operational and / or design adjustments might be made to avoid conditions that lead to atmospheric venting when power interruptions do occur (or are anticipated).

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Manager of Operations - L.A. Basin

Aera Energy LLC – Huntington Beach Facility
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   d. A thorough review of the operation of the facility's vapor recovery system is being scheduled. This is a "fine-tuning" effort to further minimize the likelihood of vapor leaks from facility tanks and pressure vessels.

CITY OF HUNTINGTON BEACH

2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

June 29, 2000

Aera Energy LLC
20101 Goldenwest Street
Huntington Beach, CA 92648

RE: MAY 22, 2000 HYDROCARBON VENTING AT FACILITY #104017

After reviewing the report regarding equipment breakdown prepared by Aera's Environmental Manager, Milan Steube, the Fire Department has determined that the incident was preventable while posing a potential threat to human health and significant liability to Aera Energy. Based on Aera's May 30, 2000 letter, the current status of "interruptible" electrical power consumer was the major cause. Additionally, this status may violate the agreements made under the conditional use permit granted for the site's operation.

Although mitigation measures were identified in the May 30, 2000 report, the Huntington Beach Fire Department finds these measurers insufficient to adequately safeguard the community from a potentially harmful chemical release. Aera's follow-up plan to prevent a recurrence is unacceptable. Area's current procedures for handling interruptible power at the Huntington Beach facility are not adequate and will require correctional measures.

We recommend a meeting between Aera and our Fire Department staff to discuss corrective actions to your proposed mitigation measures. Please contact Deputy Fire Marshal Tim Greaves or myself at 714 374-5379 to schedule a meeting.

Sincerely,

Duane S. Olson
Fire Marshal

TLG\DSO\bjg

C: Michael P. Dolder, Fire Chief
Paul Mount II, P.E., State Lands Commission
Tim Greaves, Deputy Fire Marshal

7/6/00
Met & discussed the issue with Ron Sherman

CITY OF HUNTINGTON BEACH

INTER-DEPARTMENT COMMUNICATION

To: Tim Greaves, Deputy Fire Marshal

From: William T. Hosband, HazMat Program Manager WTH

Date: July 11, 2000

SUBJECT: "AERA ENGERGY" OIL SPILL OF JULY 5, 2000

The following is a summary of what I have learned from an investigative interview with Susan Gonzales, EHS Field Advisor for AERA Energy LLC (L.A. Basin Operations) at AERA's Huntington Beach site at 20101 Golden West St. conducted on July 11, 2000.

The crude oil spill was reported by a contractor of AERA while on his routine inspection rounds of wells on un-incorporated Bolsa Chica Wetlands operated by AERA Energy LLC. At approximately 7:50 a.m. on the morning of July 5, 2000, a pool of oil was observed near the location of an operating well at the north end of AERA property.

Immediate investigation by AERA surveillance personnel and an AERA Supervisor determined the source to be an eight inch underground production pipeline that is fed from several producing wells in the area. The wells providing production to this pipeline were shutdown and isolation valves were closed. Notification was made to other AERA Supervision and in turn notifications were made to the California Office of Emergency Services (OES) and the National Response Center (NRC). OES notified the California Fish & Game Warden and the U.S. Coast Guard who responded. Also responding were the State Lands Commission and Division of Oil & Gas. A unified command was established with Fish & Game, Coast Guard and AERA personnel.

Initial estimates of the production pipeline leak volume was an estimated 5 barrels of crude oil and 10 barrels of produced water, which spilled into a dry creek just opposite a wet cell and separated by a bridged road. The oil/water combination contaminated an area of approximately 45' X 60' which included some pickleweed which supports several endangered species of wildlife. Efforts to contain the spill and minimize the threat to flora and fauna were implemented by AERA's spill response contractor, Advance Cleanup Technology Inc., under the direction of the California State Department of Fish and Game and AERA Supervisors. Some of the activities included washing down of the pickleweed and evacuation of the oil/water mixture by as many as three vacuum trucks working under contract to AERA.

There were no injuries reported. This incident is under investigation. There were no activities occurring above ground in the area around the line break. The area was monitored for "lower explosive level (LEL), hydrogen sulfide (H2S) and Oxygen (O2) continuously to ensure safe clean-up operations. Levels were constant at 0% LEL, 0 ppm H2S and 20.9% O2. Biologists from Fish & Game requested that netting be placed over contaminated soils to keep wildlife away from harm until all contaminated soils were removed.

The question of Administering Agency Notification requirements has been discussed with AERA Energy personnel and a posed to the Orange County Fire Authority, because the spill occurred on unincorporated Orange County property rather than Huntington Beach City

property. It was agreed by all agencies polled, that notification to the Administering Agency could be either to Huntington Beach Fire or the Orange County Fire Authority and be in compliance with reporting regulations. The notification should, however, be immediate and follow AERA Energy Business and Emergency Plan guidelines.

Attached are pages of existing guidelines that contain information for emergency notification related to spills and releases. It is my recommendation that these guidelines spell out more specifically the agencies to be notified and include the 24-hour telephone numbers for each in the order of call preference. The Orange County Fire Authority representative recommends that **911** be used to notify the Administering Agency as required by AB2185/2187. The telephone number presently listed in the agency list (536-5411) is the general telephone number for Fire Administration but is answered after-hours by a Metro Net Dispatch telephone tree.

Continued open communications between AERA Energy and the Huntington Beach Fire Department will help resolve any notification or response issues that may arise and I encourage a commitment by both parties to maintain those communications at all costs. Thank you.

C: Duane Olson, Division Chief

OVERVIEW

The Huntington Beach production unit is manned 24 hours per day, 7 days per week. During this time all facilities are checked for leaks or operational failures. All personnel are equipped with a two-way radio to communicate immediately any potential or occurring problems that may arise.

Once field personnel discover a spill, they will immediately notify an Aera supervisor. The supervisor will obtain the Material Safety Data Sheet for the material in question. After assessing the amount of the spill and significance of endangerment to personnel, public and the environment, the supervisor will notify any Emergency Response Personnel and all other agencies required to be notified.

The supervisor or a delegate will meet the emergency response personnel at the property entrance and lead them to the incident site. Also, at this time the supervisor will provide them with any information required, such as possible hazards that may be present.

If it becomes necessary to evacuate personnel from a field location the field supervisor will contact personnel via radio. All contract personnel will be contacted in person and lead off lease or to a designated safe area.

If evacuation affects the general public or it appears that it may threaten any residential area, the Supervisor will request assistance from local fire and sheriff agencies.

A personnel count will be made with corresponding duty roster for the day to ensure that all people are accounted for.

1.1 Notification

The person in charge of the facility or appointed delegate must report the release to the National Response Center *as soon* as they have knowledge of a release of a "reportable quantity" of a hazardous material. The fact that the facility is in the midst of an emergency response action cannot delay the notification. The Response Center will ask questions regarding response actions and record pertinent information. It will relay that information to a regional on-scene coordinator already designated by the EPA or to the U.S. Coast Guard. The coordinator will evaluate the circumstances and involve appropriate state and federal agencies.

1.2 Releases into the Environment

Any release that is not wholly contained within buildings or structures is reportable, even if it remains on the plant or installation grounds. Examples include evaporation of a reportable quantity into the air from a spill within a dike or to a concrete pad, or leaks of a reportable quantity from a tank, pipeline or process unit into the ground. "Environment" includes any navigable water, surface water, ground water, drinking water supply, land surface, subsurface strata or ambient air within or under the jurisdiction of the United States.

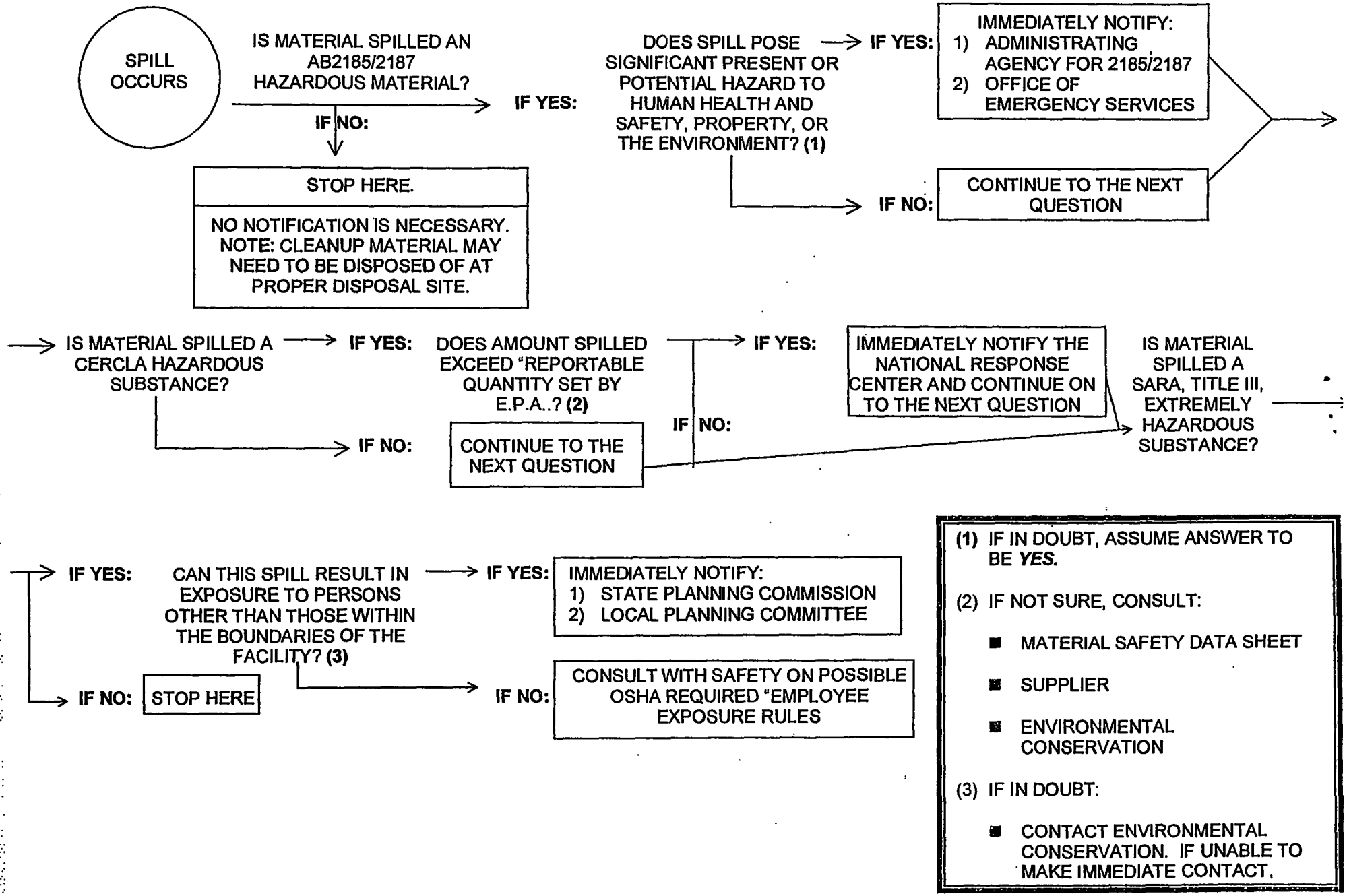
1.3 Reportable Quantity Amounts

EPA has identified the Reportable Quantity for over 600 chemicals in its April 4, 1985. This Reportable Quantity (RQ) refers to the amount of a material at which a spilled or released hazardous substance must be reported. The amount doesn't have to be spilled all at once; if the RQ is spilled in any 24 hour period it must be reported. All SWEPI locations should maintain their Hazardous Material list and update their Reportable Quantities inventories on a regular basis. These vary from 1 pound to over 10,000 pounds.

2.0 AGENCY PHONE LIST

AGENCY	PHONE	REQUIRED BY
Office of Emergency Services (OES)	(800) 852-7550	AB2185/2187
Administrating Agency of AB2185 Huntington Beach Fire Department	(714) 536-5411 911	AB2185/2187
National Response Center (NRC)	(800) 424-8802	CERCLA
State Emergency Planning Commission	Use OES # until further notice	SARA, Title III
Local Emergency Planning Commission	Use OES # until further notice	SARA, Title III
California Regional Water Quality Control Board (RWQCB) Santa Ana Region	(909) 782-4130	AB3506 (1986)
State Lands Commission *Huntington Beach Division* *Long Beach Division*	 (714) 536-3018 (562) 5905201	Local agreement
Division of Oil and Gas (DOG)	(562) 590-5311	Local agreement
Department of Fish and Game *Monday - Friday, 8 a.m. to 4 p.m.* *Weekends and nights (dispatch)*	 (562) 5905132 (916) 445-0045	Local agreement

DECISION TREE FOR EMERGENCY NOTIFICATION OF CHEMICAL SPILLS



(1) IF IN DOUBT, ASSUME ANSWER TO BE ***YES.***

(2) IF NOT SURE, CONSULT:

- MATERIAL SAFETY DATA SHEET
- SUPPLIER
- ENVIRONMENTAL CONSERVATION

(3) IF IN DOUBT:

- CONTACT ENVIRONMENTAL CONSERVATION. IF UNABLE TO MAKE IMMEDIATE CONTACT,

Meeting Objectives

- Improve Aera's understanding of agencies' concerns
- Improve agencies' understanding of Aera's operations and systems
- Agree on next steps needed to work toward resolution of all parties' concerns

Agenda

- Review Agency Concerns
- Review of May 22 Event
- Aera's Response to May 22 Event
- Discussion
- Define and Agree on Next Steps

Review Agency Concerns
Huntington Beach Fire Department

- Incident was preventable while posing a potential threat to human health and significant liability to Aera.
- Interruptible power service may violate agreements made under the conditional use permit for the site.
- Aera's measures to mitigate future events are insufficient to safeguard the community from a "potential harmful chemical release".
- Current procedures for handling interruptible power are not adequate and require correctional measures.

- ADD — HB FIRE HAD TO INQUIRE TO HAVE KNOWLEDGE OF THE ISSUE.

Review Agency Concerns
California State Lands Commission

- Date, time, duration, volume and source(s) of release
- Release composition
- Chronology leading up to, and response to the release
- Agencies notified
- Investigation results
- Shut-down systems:
  - SCE interruption did not kill entire lease; some wells continued to produce
  - Other similar situations where entire lease did not shut down
  - How is ESD system distributed among Emmy, Onshore Strip, and Bolsas?
  - Will a power interruption kill all of the above?
  - Status of "All Call" system for rod wells?
  - ESD for Bolsas?

Review of May 22 Event

- Unanticipated SCE load shed
- Three of seven FWKO vessels released hydrocarbon gas (containing some H2S) to atmosphere via pressure relief system
- HBFD received an odor complaint from Seacliff Country Club

Aera's Response to May 22 Event

- Root Cause Failure Analysis
  - Unanticipated nature of event
  - Facility design
- Improved State of Readiness for Potential Future Load Shed Events
  - Began routinely monitoring SCE's web site as an "early warning" system
  - Arranged for 30 minute warning of key personnel via pager system
  - Reviewed and updated shut down systems and procedures
  - Reviewed and reinforced reporting requirements with personnel
- Equipment Inspection and Repair
  - Conducted thorough third-party inspection and repairs of vapor handling system
  - Confirmed proper operation of "All Call" system for all rod wells
- Operational and Design Adjustments
  - Continuing to fine tune controls on vapor handling system
  - Evaluating potential facility / process modifications to minimize the potential for gas releases during unexpected shut-downs. **Aera is committed to find a long term solution that addresses the concerns of all parties.**

Discussion

- What concerns remain?
- What other actions does Aera need to consider?
- Is there anything we can learn from other facility operators?

CITY OF HUNTINGTON BEACH, CALIFORNIA

Oil Well Permit

1288

Permission is hereby granted to SHELL (WESTERN) E&P INC.

P.O. Box 11164, BAKERSFIELD, CA 93389

to Drill/Redrill/Steam Oil Well CJ294
Name or No.

at 20101 GOLDENWEST MAT B
Legal Description or Location

in accordance with Application No. 405667 approved and on file and subject to the provisions of Chapter 23 of the Huntington Beach Ordinance Code.

DEPARTMENT OF BUILDING & COMMUNITY DEVELOPMENT

Date 9/17/87

by J. McKee
Oil Field Superintendent

Permit # 1288 Application # 405667

APPLICATION FOR OIL WELL DRILLING, REDRILLING OR REWORK
Department of Building and Community Development
City of Huntington Beach, California

TO BE COMPLETED BY APPLICANT

Well Name or Number CJ294

Operator Shell Western E & P Inc.
Address P. O. Box 11164 Bakersfield, CA 93389-1164

Phone 805/326-5679 Bond # 5303238

Land Owner Huntington Beach Company

Address 2110 Main St., H.B., CA 92648-2299

Resident Agent on Whom Notices May be Served

Name Bob Dehnke or Bob Jones
Address 20101 Goldenwest Avenue Huntington Beach, CA 92648

Phone 714/969-3285

Legal Desciption-Lot ___ Block ___ Tract ___
(attach if lengthy description)
RIG AND SITE
Plot Plan (attach) Yes
M2-01-CZ
Zoning O-1

Distance from Nearest Property or Lease Line 50'

Distance from Nearest Public Right-of-Way 50'

Distance from Nearest Structure 300'

Is there a church, hospital or school within 150 feet? Yes ___ No X

Certificate of Insurance with:
Self-insured

Property Damage $ N/A
Personal Liability N/A

DRILLING UNIT SPECIFICATIONS

Drilling Contractor Montgomery
Address P. O. Box 2508 Bakersfield, CA 93303

Phone 805/393-9620

Drilling, Redrilling or Rework New well

Type of Derrick Triple - Rig No. 16

Manufactured by Derrick Services Int.

Height 142' on 20' high base

Does derrick or mast meet A.P.I. Standards 4A, 14th Edition and RD, 3 yrs. Edition Yes

Thickness of Mat N/A

Size of Foundation N/A

Depth of Mat in Ground N/A

Dimension of Cellar 8' x 10'

FOR DEPARTMENT USE ONLY

Application Received 9/15, 1987

Fee $500 Paid 9/17, 1987

Permit Granted 9/17, 1987

Permit No. 1288

License Department

Application Approved Joseph Lucas

Date 9/17/87 License Inspector

DEPARTMENT OF BUILDING & COMMUNITY DEVELOPMENT

Application Approved UP80-51

Date 9-17-87 Director

Department of Public Works

Application Approved M Patapoff

Date 9/17/87 for Director, Public Works

Approval does not relieve applicant of responsibility of securing any required permits from Department of Public Works.

I hereby declare that I, the undersigned, am the agent (for the) operator above named; that I have been duly authorized to make this application for and on behalf of said operator; that I have read this application and know the contents thereof; that the same is true of my own knowledge; I certify under penalty of perjury that the foregoing is true and correct.

Signed M. Quantis

Date 9-14-87

Application Approved 9/17, 1987

FIRE DEPARTMENT
FIRE PREVENTION DIVISION

Fire Department-Fire Prevention Division

Application Approved yes

Date 9/17/87 Fire Marshal

J. McKee
Chief Oil Field Inspector

6300G

SURFACE LEASE

DESCRIPTION

Parcel 1:

A portion of Sections 3, 4 and 10, Township 6 South, Range 11 West, San Bernardino Base and Meridian, in the City of Huntington Beach, County of Orange, State of California described as follows:

Beginning at the intersection of the north corner of Pacific Coast Highway and 23rd Street; thence North 40° 36' 00" East, 672.85 feet along the Northwest line of 23rd Street to a point of tangent curve, concave to the West, having a radius of 30.00 feet; thence Northeast and Northwest along said curve 47.10 feet to a point of tangency; thence North 49° 24' 00" West, 1320.57 feet; thence North 48° 18' 20" West, 1522.215 feet; thence North 47° 04' 50" West, 1758.56 feet to a point of tangent curve, concave to the Southwest, having a radius of 1540.00 feet; thence Northwesterly along said curve 373.69 feet to a point of tangency; thence North 60° 59' 01" West, 385.045 feet to a point of tangent curve, concave to the Northeast, having a radius

of 1510.00 feet; thence Northwesterly along said curve, 658.29 feet, through a central angle of 24° 58' 42" to a point of reverse curve, concave to the South, having a radius of 30.00 feet; a radial line through said point of reverse curve, bears North 53° 59' 41" East; thence Northwesterly and Southeasterly along said curve 47.74 feet to a point of compound curve, concave to the Southeast, having a radius of 1050.00 feet, a radial line through said point of compound curve, bears North 37° 10' 53" West; thence Southwesterly along said curve 136.26 feet to a point of tangency; thence South 45° 23' 00" West, 240.34 feet to a point of intersection with Northeasterly line of said Pacific Coast Highway, said point of intersection is South 44° 37' 00" East, 72.00 feet from the intersection of the westerly city limit line of said Huntington Beach and the northeast line of said Pacific Coast Highway; thence South 44° 37' 00" East 3463.83 feet along the said Northeasterly line of said Pacific Coast Highway to a point of tangent curve, concave to the Northeast, having a radius of 5597.60 feet, thence Southeasterly along said curve 465.69 feet to a point of tangency; thence South 49° 23' 00" East, 2190.92 feet along the Northeasterly line of said Pacific Coast Highway to the point of beginning.

W.B.J.

Parcel 2:

That portion of land in the Northeast 1/4 of Section 4, Township 6 South, Range 11 West, in the City of Huntington Beach, County of Orange, State of California, described as follows:

Beginning at the Northwest corner of the Southwest 1/4 of the said Northeast 1/4 of said section, further described as the Northwest corner of said City of Huntington Beach, as shown on Record of Survey 59-2 as filed August 15, 1962 in the County Recorders office of said county in book 59, page 2, Record of Surveys; thence South 0° 47' 16" East, 861.07 feet to a point; thence North 45° 23' 00". East, 213.46 feet to a point of tangent curve, concave to the Southeast, having a radius of 1150.00 feet; thence along said curve 160.58 feet, to a point of reverse curve, concave to the West, having a radius of 30.00 feet, a radial through said point of reverse curve, bears South 36° 36' 58.5" East; thence Northeasterly and Northwesterly along said curve 46.30 feet to a point of reverse curve, concave to the Northeast, having a radius of 1510.00 feet, a radial line through said point of reverse curve bears South 59° 57' 49" West; thence along said curve 454.465 feet to a point of tangency; thence North 12° 47' 31" West 150.861 feet to a point of intersection with the Northerly line of the Southerly 1/2 of the Northeast 1/4 of said section; thence South 89° 20' 10" ~~West~~ East 94.96 feet to the point of beginning.

W.B.J.

LEASE DESCRIPTION

PRC 425

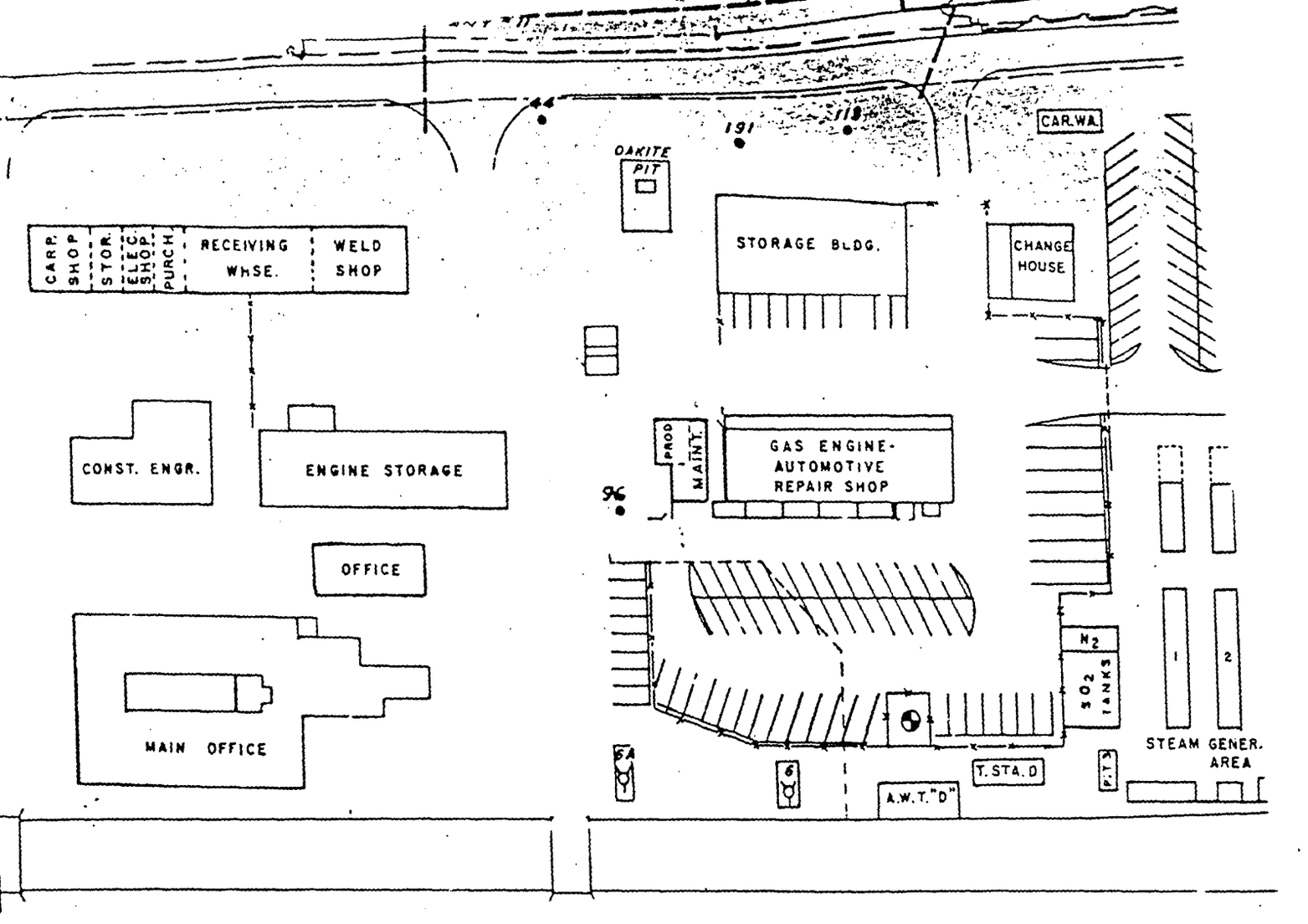
PRC 425.1

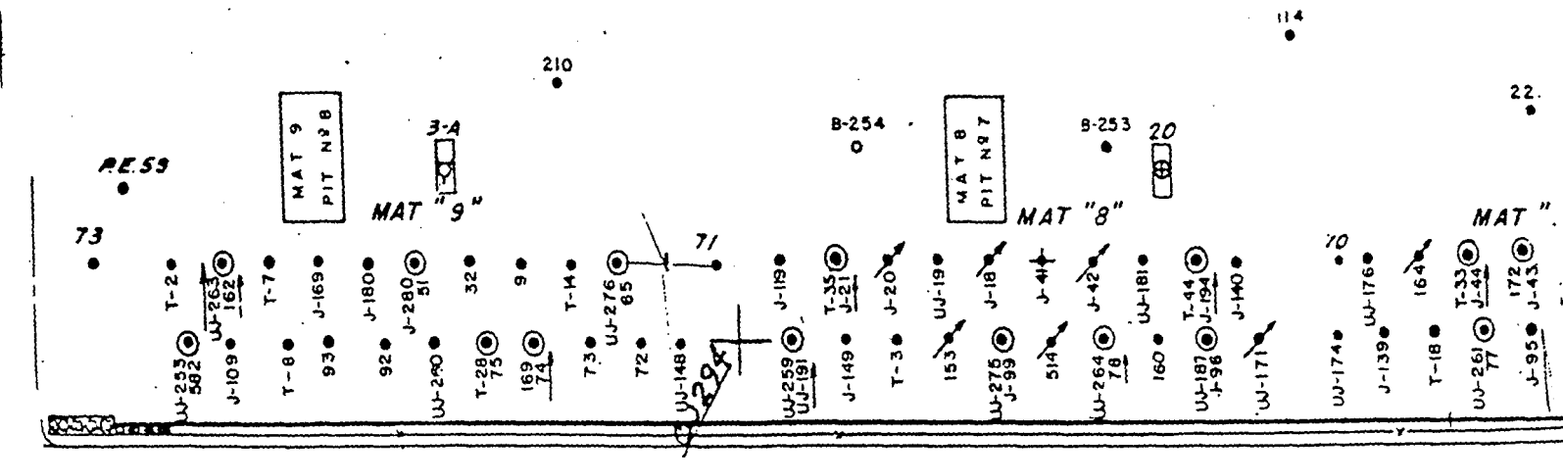
Orange, State of California, and more particularly described as follows:

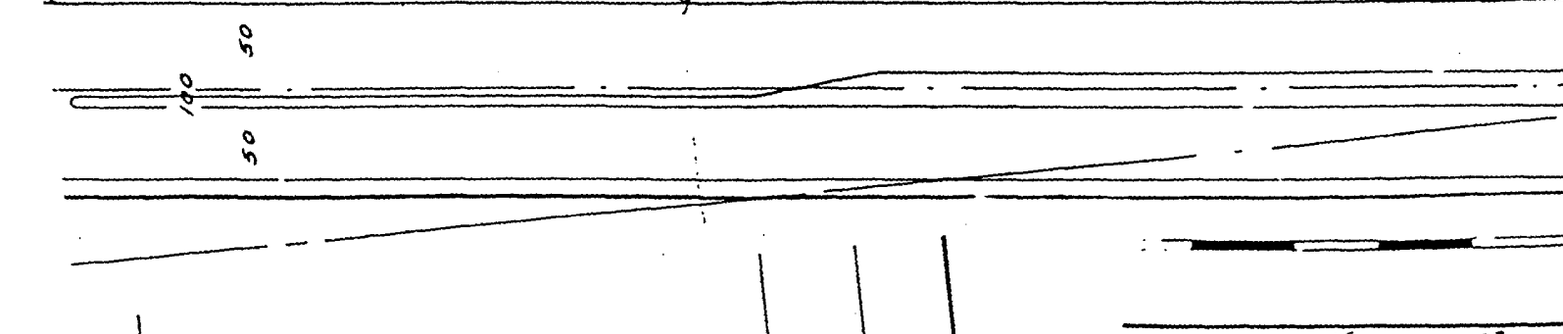
Beginning at a point on the extension southwesterly of the centerline of 23d Street in the City of Huntington Beach, 5280 feet seaward from the intersection of the ordinary high water mark of the Pacific Ocean and the extension southwesterly of said centerline of 23d Street; thence from the point of beginning northwesterly along a line parallel to the ordinary high water mark of the Pacific Ocean to a point which bears S. 40° 36' W. ~~and 5280 feet distant~~ from a 2 inch pipe at the north end of the most westerly course of Lot E as shown on a map entitled "Resurvey of part of Section 34, T. 5 S., R. 11 W., and part of Sections 3, 4 and 10 of T. 6 S., R. 11 W., S.B.M., as per Stearns Ranchos Company's Sectionized Survey by Captain T. C. Healey, Surveyor," filed at page 28 of Book 3 of Maps in the office of the Recorder of the County of Orange, thence S. 40° 36' W. a distance of 5280 feet, thence southeasterly along a line parallel to the ordinary high water mark of the Pacific Ocean and 10,560 feet seaward of said mark to the extension southwesterly of the centerline of 23d Street, thence northeasterly along said centerline extension to the point of beginning,

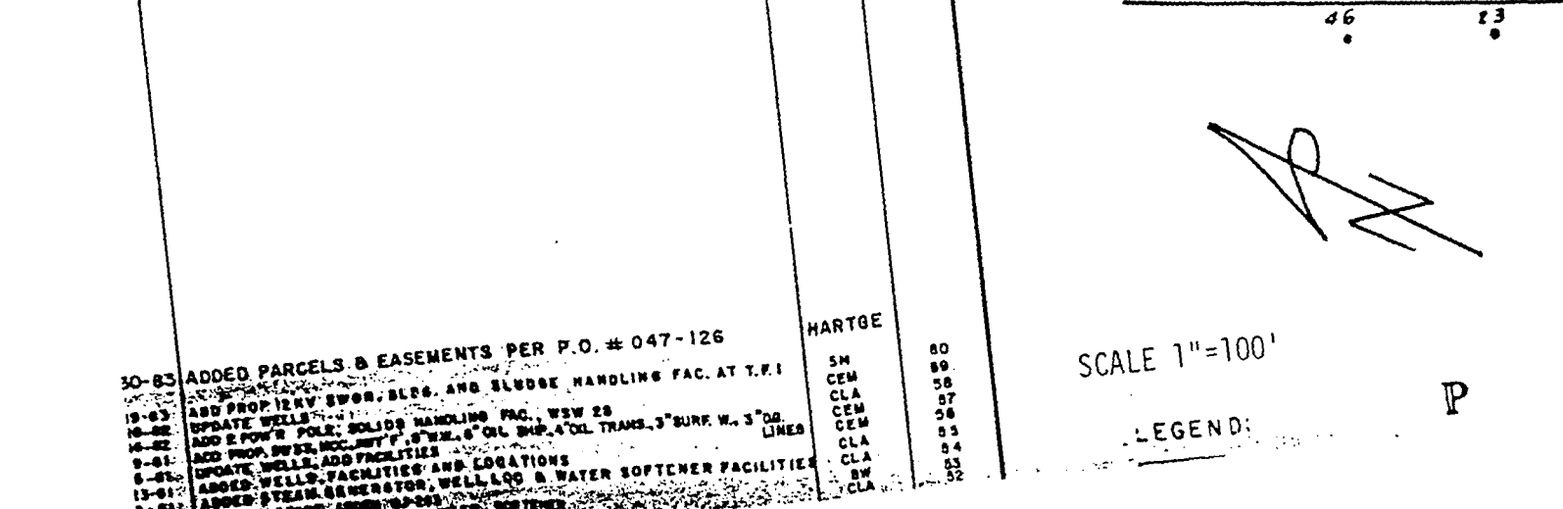
containing 835 acres more or less.

W.O. 404









30-83	ADDED PARCELS & EASEMENTS PER P.O. # 047-126	HARTGE	
19-83	ADD PROP 12KV SWGR. BLDG. AND SLUDGE HANDLING FAC. AT T.P.I	SM	80
16-82	UPDATE WELLS	CEM	89
16-82	ADD 2 POWER POLES; SOLIDS HANDLING FAC., WSW 28	CLA	58
9-81	ADD PROP. SWGR. BLDG., 4" F.O. 6" WTR., 6" OIL SHIP., 4" OIL TRANS., 3" SURF. W., 3" DO LINES	CEM	87
6-81	UPDATE WELLS, ADD FACILITIES	CEM	56
13-81	UPDATE WELLS AND LOCATIONS	CLA	85
2-81	ADDED WELLS, FACILITIES AND WELL LOG & WATER SOFTENER FACILITIES	CLA	84
	ADDED STEAM GENERATOR, WELL LOG & WATER SOFTENER FACILITIES	BW	83
		CLA	52

SCALE 1"=100'

LEGEND:

MONTGOMERY

MONTGOMERY DRILLING CO.

(805) 393-9620 P.O. BOX 80307
BAKERSFIELD, CALIFORNIA 93380

August 24, 1987

Shell Western E&P Inc.
Post Office Box 11164
Bakersfield, Ca. 93389

Attn: Mr. Brian Briggs

Gentlemen:

Pursuant to my conversation with Mr. Brian Briggs on August 20, 1987, the City of Huntington Beach requires that plans and certified specifications for the mast and subbase for Rig 16 be filed with the Fire Department as a condition to permit our Montgomery Drilling Co. Rig 16 to operate within the City.

Attached is a copy of the name plate which is attached to the mast as required under API specifications. The subbases were designed and fabricated to support the weight of the mast, plus hook load of 760,000 lbs. with 240,000 lbs. of setback weight. Also attached is plan drawing DA-M110-B prepared by Derrick Service International Inc., an authorized API manufacturer, of a drilling rig for design of Rig 16.

The letter certifies that Montgomery Drilling Co. Rig 16 now being operated in the Huntington Beach Field by us has not been altered from its original approved API design criteria and, as of this date, said rig complies with all API and other known specifications governing the operation of Rig 16.

I hereby declare that I, the undersigned, as Drilling Superintendent for Montgomery Drilling Co., have been duly authorized to make this statement on behalf of this corporation and that the same is true to my knowledge. I certify under penalty of perjury that the foregoing is true and correct.

Montgomery Drilling Co.

By Gene Lynd
Drilling Superintendent

Attachments

API STD 4E

2848 EDITION

DATE MANUFACTURED

July 1981

HEIGHT 142' FT. MANUFACTURER SERIAL NO. DAM110 — 298

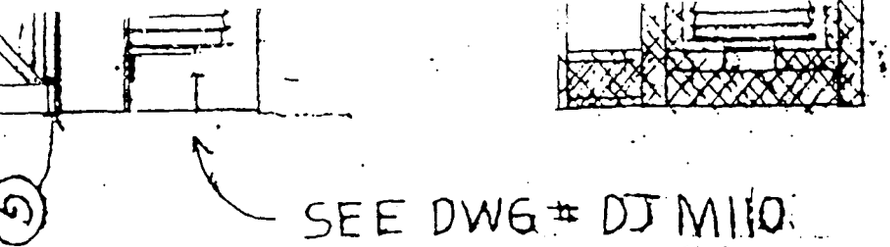
MAX. STATIC HOOK LOAD 760,000 LBS. WITH 12 LINES TO TRAVELING BLOCK.

CAUTION: ACCELERATION OR IMPACT, ALSO SETBACK AND WIND LOADS WILL REDUCE THE MAXIMUM RATED STATIC HOOK LOAD CAPACITY. THE DEAD LINE ANCHOR SHOULD NOT BE SHIFTED FROM ITS ESTABLISHED POSITION WITHOUT CONSULTING THE MANUFACTURER. ALL BOLTS AND PINS SHOULD BE PROPERLY INSTALLED PRIOR TO USE.

MAX. WIND RESISTANCE 70 KNOTS WITH MAX. PIPE SETBACK.

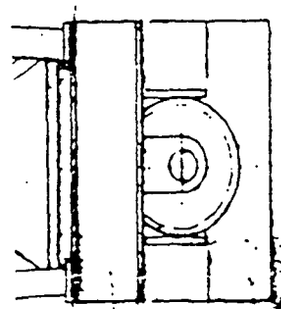
Derrick Service International Inc.

TOMBALL, TEXAS



SEE DWG # DJ M110
FOR CROWN ASS'Y.

25'-3 BACK SPREAD
for MONTGOMERY DRILLING



Derrick Service International, Inc
P.O. BOX Z 19902 HUFFSMITH-KOHRVILLE RD.
TOMBALL, TEXAS 77375

AUTHORIZED MANUFACTURER

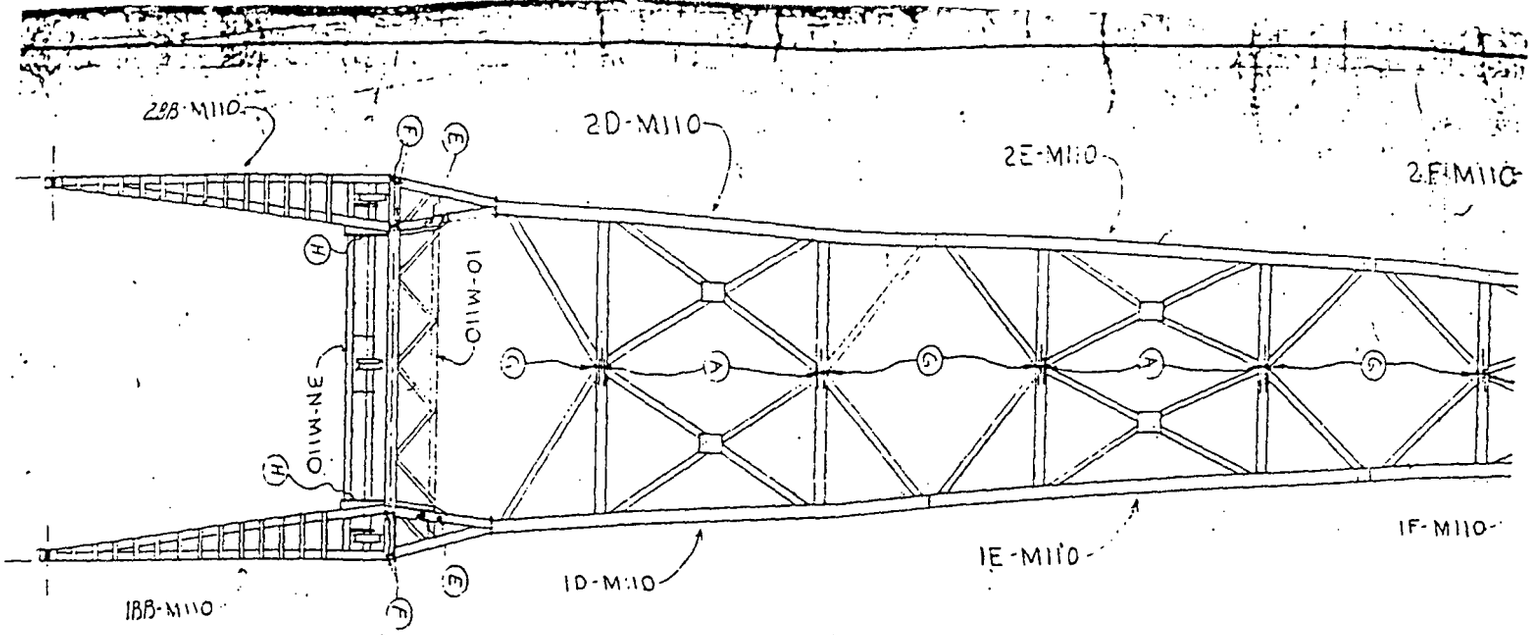
ASSEMBLY 142' 1,025 G.N.C.

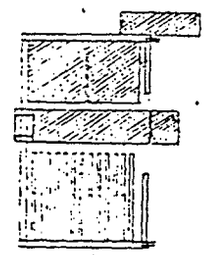
20'-11½ x 25'-3" BASE

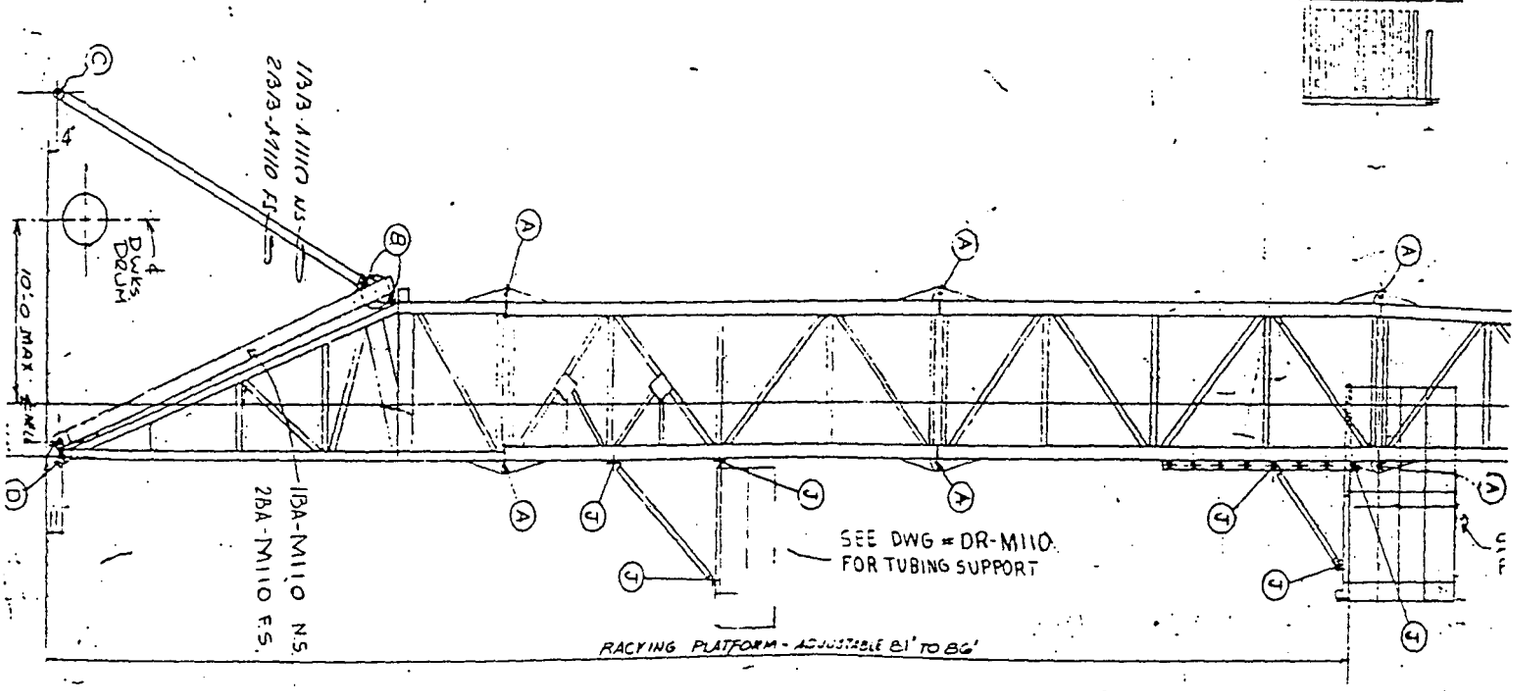
PROPRIETARY INFORMATION

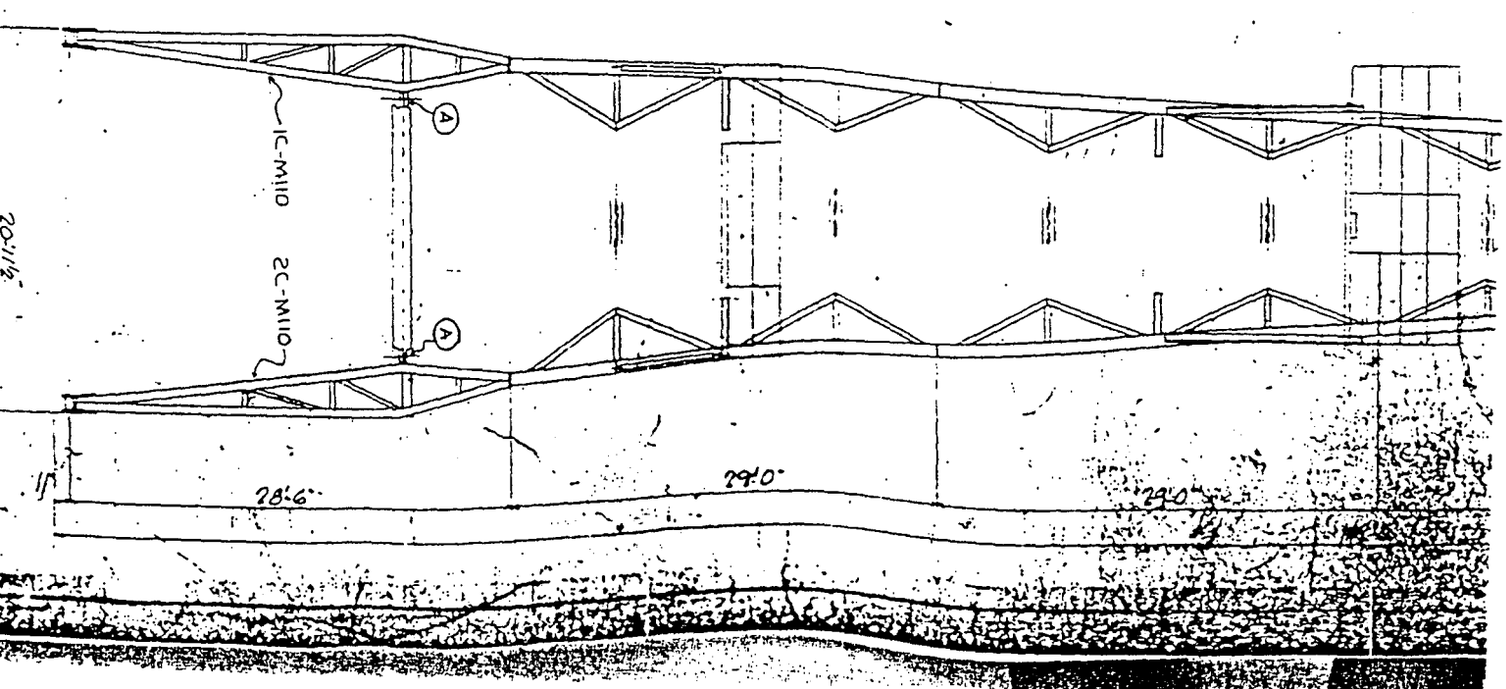
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DRAWN BY	DATE	SCALE	WEIGHT
C.L.	4-10-75	3/16 = 1'-0	
CHECKED	DATE	SHEET	OF
APPROVED	DATE	DRAWING NO.	DA-M110-B

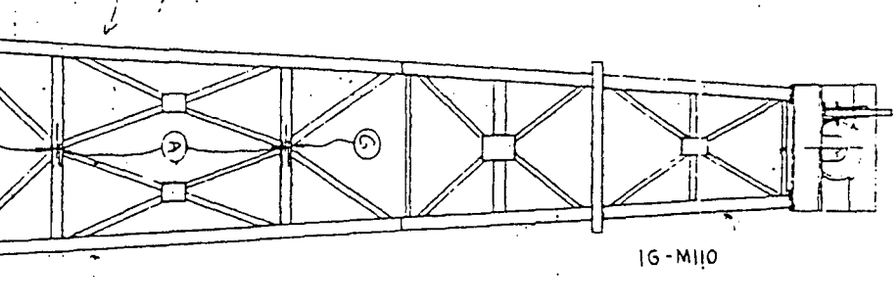

2BB-M110
2D-M110
2E-M110
2F-M110
1O-M110
3N-M110
1BB-M110
1D-M110
1E-M110
1F-M110




1BB-M110 N.S.
2BB-M110 F.S.
10'-0 MAX.
DWG DR-M110
1BA-M110 N.S.
2BA-M110 F.S.
SEE DWG # DR-M110 FOR TUBING SUPPORT
RACKING PLATFORM - ADJUSTABLE 81' TO 86'


1C-M110
2C-M110
28'-6"
29'-0"
29'-0"

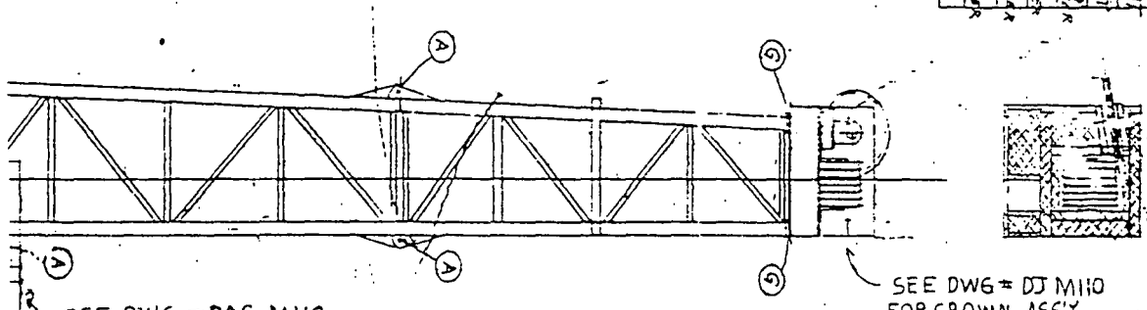
FIM110



1G-M110

-M110-

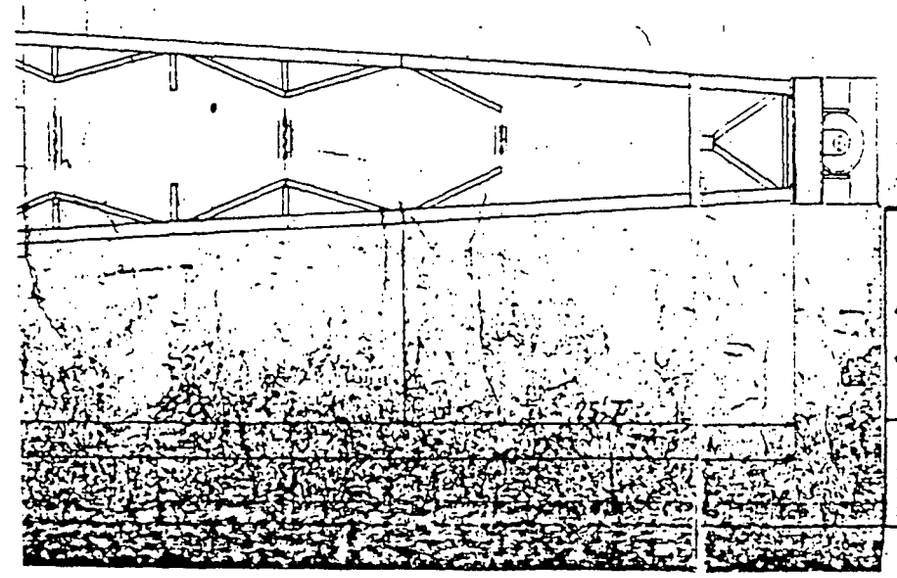
MK	QTY	PINS & BOLTS ⚠3 DESCRIPTION
A	40	2ø PIN x 15⅞ W/ZERT 1144 SP
B	8	2½ø PIN x 5⅝ W/ZERT 1144 SP
C	2	3½ø PIN x 12⅜ W/ZERT 4140 HRHT
D	4	4ø PIN x 11⅛ W/ZERT 4140 HRHT
E	6	1¼ø A325 x 3½ GMB W/HEX NUT HARDENED WASHER
F	8	1½ø A325 x 3 GMB W/HEX NUT HARDENED WASHER
G	20	1ø A325 x 1 GMB W/HEX NUT HARDENED WASHER
H	8	1ø A325 x 1½ GMB W/HEX NUT HARDENED WASHER
J	12	1½ø PIN x 4¼ W/ZERT 1144 SP



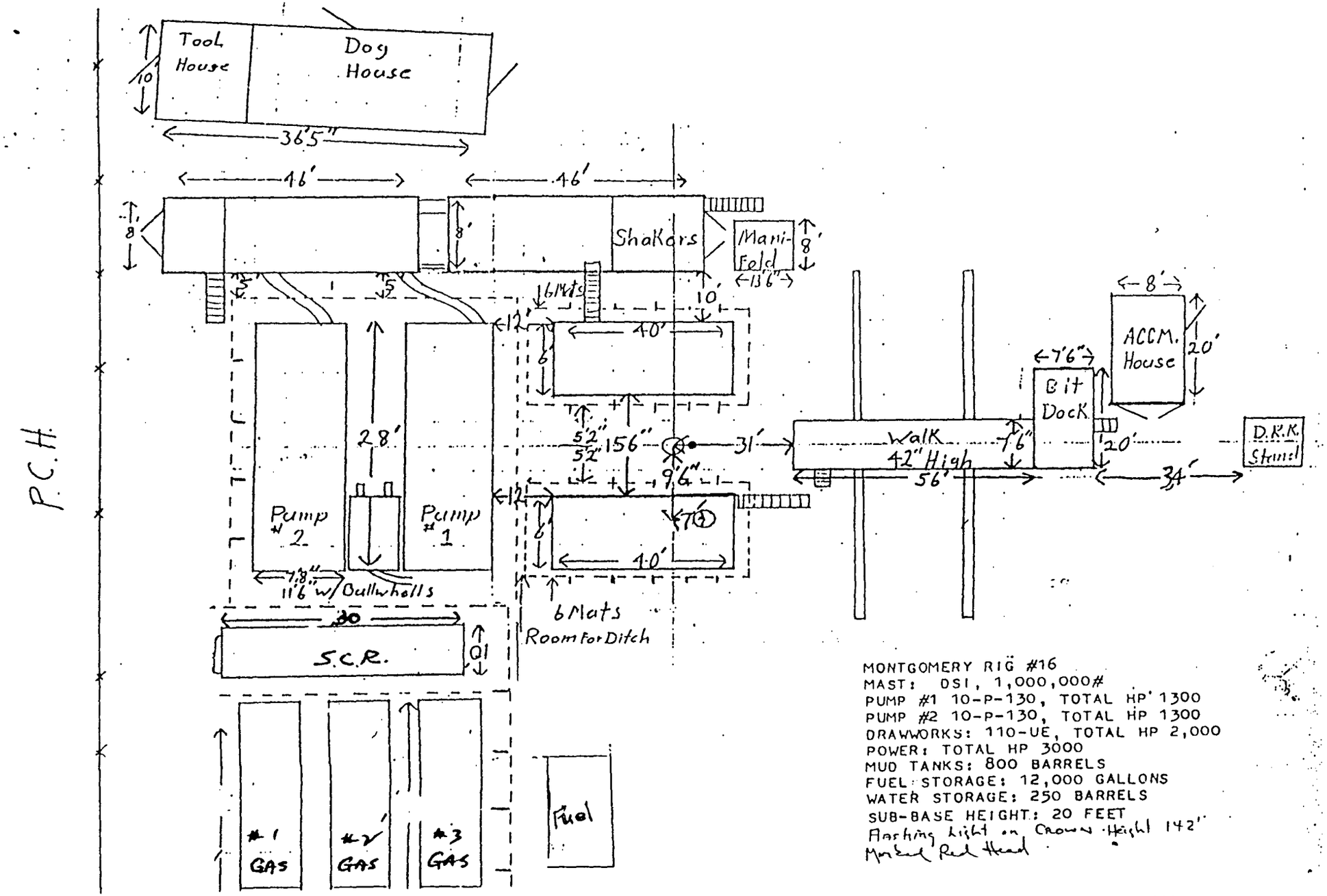
SEE DWG = DAG-M110
FOR RACKING BOARD ASSEMBLY

SEE DWG = DJ M110
FOR CROWN ASS'Y.

25'-3 BACK SPREAD
for MONTGOMERY DRILLING



Derrick Service International, Inc. P.O. BOX 2 19902 HUFFSMITH-KOHRVILLE RD. TOMBALL, TEXAS 77375			
AUTHORIZED ⚠ MANUFACTURER			
ASSEMBLY 142' 1,025 G.N.C. 20'-11½ x 25'-3" BASE			
	C.L.	4-10-75	3/8" = 1'-0"
			DA-M110-B


Tool House
Dog House
10
36'5"
16'
16'
8'
8'
8'
Shakers
Mani-Fold
13'6"
5'
5'
6 Mats
10'
12'
40'
6'
5'2"
5'2"
156"
31'
9'6"
12'
6'
10'
7'6"
28'
Pump #2
Pump #1
7'8"
11'6" w/ Bullwheels
30
S.C.R.
21
6 Mats
Room for Ditch
#1 GAS
#2 GAS
#3 GAS
Fuel
P.C.H.
Walk
42" High
56'
7'6"
Bit Dock
8'
ACCM. House
20'
20'
34'
D.K.K. Stand
MONTGOMERY RIG #16
MAST: DSI, 1,000,000#
PUMP #1 10-P-130, TOTAL HP 1300
PUMP #2 10-P-130, TOTAL HP 1300
DRAWWORKS: 110-UE, TOTAL HP 2,000
POWER: TOTAL HP 3000
MUD TANKS: 800 BARRELS
FUEL STORAGE: 12,000 GALLONS
WATER STORAGE: 250 BARRELS
SUB-BASE HEIGHT: 20 FEET
Flashing light on Crown Height 142'
Marked Red Head

SHELL WESTERN EXPLORATION & PRODUCTION INC.
HUNTINGTON BEACH
GAS PROCESSING PROJECTS

Dew Point Control Unit
Sulferox Unit/Ground Flare

FIRE PROTECTION PLAN

FLUOR DANIEL

BAKERSFIELD, CALIFORNIA

5/28/91



...the new symbol of Value

SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

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SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

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** Documentation/information which will be provided to the City of Huntington Beach Fire Department and it's independent consultant for review.*

*** Items/components/safety systems which will be installed where appropriate and listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.*

SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

1.0 INTRODUCTION/SCOPE

This Plan is provided as supplemental information to the Environmental Assessment for this project. It is intended to document the facility design philosophy, safety systems, fire protection systems, alarms systems, fire detection systems, applicable codes, and approval process once detailed engineering has been completed. This document shall serve as the Fire Protection Plan for this project.

2.0 PROJECT DESCRIPTION

This gas processing project is approximately $10MM of new equipment which will replace existing facilities and which will be consolidated adjacent to SWEPI's recently modernized Tank Farm #1 Oil Dehydration Facility. The primary driving forces are: environmental compliance, emissions reduction, improved safety, reduction in operating expenses, and consistency with the overall City of Huntington Beach, Linear Park Development Project. The project includes three major items:

2.1 Installation of a **Dew Point Control Unit** (DCU), which is a functional equivalent of Shell Western E&P Gas Plant #11. The purpose of this unit is to compress natural gas produced with the associated oil production at this location and to chill the stream to below the ~~hydrocarbon dew point to meet sales gas hydrocarbon and~~ water dew point specifications.

The DCU will have no natural gasoline storage, and all products will be sold via existing pipeline as they are currently being handled and transported.

2.2 The project also includes installation of a **SulFerox Unit** which is a desulfurization unit to replace the existing Stretford Unit. This is a proprietary Shell Oil Company/DOW process which converts hydrogen sulfide to elemental sulfur in a single contacting step. The contacting fluid is non-hazardous and non-flammable.

2.3 An **Emergency Ground Flare**, which will provide a sanitary disposition for natural gas during emergency upset conditions, is also a part of this project. The Ground Flare is of a safe, smokeless, low noise, hidden flame, and environmentally friendly design.

2.4 All product streams, properties, flowrates and temperatures are listed in the Process Flow Diagrams which are attached.

3.0 DESIGN BASIS

3.1 The design for all fire protection, detection and alarm systems shall comply with this specification. All referenced codes, standards, publications and specifications referenced herein shall be a part of this specification.

3.2 The basis of design for the fire protection system at the facility shall be that of a single risk area concept. The facilities shall be divided into separate areas of possible fire involvement, and each area shall be considered as a single risk. The area of the plant requiring the greatest degree of protection shall be classified as the largest single risk area, and the total capacity of the firewater system shall be based on meeting this requirement. The single risk concept assumes only one fire is occurring at any one time.

4.0 RISK ASSESSMENT

△2 ~~4.1~~ HAZOPS (Hazard and Operability Study)*

A Hazard and Operability Study (HAZOP) will be conducted on this project. The study will include a team of engineers, specialists, operators, independent third party consultant, and outside registered professional engineers who will go through the detailed design line by line, item by item, to validate the inherent safety system built into the design of each component.

The Fire Department and its consultant are invited to participate in the HAZOP process.

Additionally, a series of API 14C Safe Charts will be developed for each major system, API 14-C is the recommended practice for analysis, design, installation and testing of basic surface safety systems on offshore production platforms.

The results of these HAZOP and API 14C Safe Charts will be submitted to the Fire Department for their review.

4.2 Toxic and Flammable Dispersion Modeling*

The results of these dispersion modeling which will be done by a third party consultant will be submitted to the Fire Department for their review. All criteria and modeling assumptions will be submitted with the model results.

△2 4.3 Hazardous Materials/MSDS List*

Material Safety Data Sheets are kept physically on the lease. On site are located a full volume of MSDS Sheets for review as per OSHA requirements. MSDS sheets will be added and updated as required by OSHA and in conjunction with this project.

5.0 FIRE PROTECTION CONCEPTS

The facility depends on early hazard detection and the ability of plant personnel to contain a flammable liquid fire and/or a high pressure flammable gas fire with fixed and portable fire fighting equipment.

All detailed plans for the Fire Protection System, equipment types and locations will be submitted to the Fire Department for approval. This shall occur during the request for the project building permits.

△2 All fire protection equipment shall be listed where equipment having such listings are available. The Fire Department will allow the applicant to propose reasonable alternatives and solutions which assure equal safety to life and property when strict compliance with listings or approvals are not reasonably attainable.

5.1 Firewater System**

△2 5.1.1 Fixed firewater monitors shall be located adjacent to the process areas, pipeways, equipment, and elevated structures. Fixed monitors shall be 40 feet to 50 feet from equipment to be protected. Approximate spacing between monitors should be 150 feet. Each monitor should be capable of producing at least the minimum flow requirements to meet Fire Department standards.

△2 5.1.2 Firewater hydrants with pumper connections shall be installed around the perimeter of the facility. Hydrant spacing in the system shall allow easy access for fire truck operation while maintaining minimum exposure to personnel. The firewater supply source shall have the capability of delivering a minimum four hour supply to the fire pump suction inlet. Hydrants should have a minimum flow as required by Fire Department standards. Hydrant spacing should be approximately 250-300 feet apart on roads and approximately 40-50 feet from equipment to be protected.

△2 5.1.3 Hose reels and hose carts shall be installed along pipe racks, and process area. Fixed wet hose reels shall contain 100 feet of 1-1/2 inch hard line booster fire hose with an adjustable fog nozzle having a capacity of 125 gpm.

△2 5.1.4 The firewater supply system shall consist of firewater mains, laterals, and isolation block valves to provide the required firewater flows to each "fire loading" area, even though one section of the system is shut in for maintenance or repairs. Post indicator valves shall be used for sprinkler or deluge systems.

5.1.5 The firewater system includes piping, fittings, valves, hydrants, water monitors, hose reels, hose hydrants, and stub-up connections for firewater spray systems.

5.1.6 A firewater transposition drawing showing the total fire protection system piping shall be prepared for approval by authorities having jurisdiction.

5.1.7 The minimum pipe size for firewater mains and hydrant branch lines shall be six (6) inches.

5.1.8 All new underground carbon steel pipe shall be outside coated and wrapped. Field joints shall be coated and wrapped after assembly and hydro-test. All buried piping shall be cement-lined for internal corrosion protection. All new above ground piping shall be exterior painted and internal lined. Any existing firewater piping shall be externally protected.

5.1.9 Hydrants, monitors, valve pits (boxes, etc., shall be located a minimum of three feet from the edge of the road shoulder. Where a shoulder is not provided, this distance shall be five feet from the edge of the road. Four (4) guard posts shall be provided for distances less than 10 feet from the edge of the road and where maintenance vehicles may be operating. Hydrants or approved hose manifolds shall be used for truck and hose connections.

5.1.10 General information for laying piping systems, installation of and requirements for thrust blocks, valve pits (boxes), and appliances such as hydrants and water monitors shall be in accordance with NFPA 24.

5.1.11 The duration of the required firewater flow shall be 4 hours, as per the NFPA Code.

5.2 Firewater Pumps**

△2 5.2.1 The fire protection engineer shall verify that the new or existing firewater pumps are capable of delivering firewater flow rates to the largest user, and meet the designed water flow requirements at each fire protection system. The flow rate shall meet the minimum flow requirements as determined by Fire Department standards.

⚠2 5.2.2 The fire pumps shall delivery the required flow rates to all areas of the facility at a pressure of approximately 100 psi at the base of the fire fighting appliance and a minimum of 60-70 psi at the inlet side of all water spray system operation valves. Firewater pumps shall be designed to meet NFPA 20 and provide for redundant pump with required capacity as per NFPA 20. Appropriate tie-ins to water supply will be determined. Pumps shall be remotely located in an approved covered shelter.

An evaluation of the need for firewater pumps and tanks will be performed in conjunction with the Fire Department to determine if adequate flow and duration can be supplied with only a looped system.

6.0 FIRE SUPPRESSION SYSTEM**

6.1 Portable hand held fire extinguishers shall be installed in all areas of the facilities. The extinguishing agent shall be compatible with the class of fire to be encountered.

⚠2 6.2 Foam systems may not be required in the scope of this project. See Appendix A for quantity of foam already stored on site.

6.3 A water spray deluge system shall be provided for areas as required.

⚠2 6.4 Hose reels and hose carts shall be provided throughout the plant for easy access and emergency use.

7.0 GAS/FIRE DETECTION AND SHUTDOWNS**

7.1 The area UV/IR flame detectors and vapor/gas alarm systems shall be monitored at the Local Control Room and/or the Central Control Room and shall shut down plant upon alarm.

7.2 Combustible vapor/gas sensors shall be installed in critical outdoor areas. The gas sensors shall monitor the level of hydrocarbon/ air mixture and/or hydrogen sulfide.

7.3 Manual ESD stations shall be provided in the areas of egress.

7.4 A detail of the alarm and shutdown system wiring hardware and design will be submitted for approval at submittal of building permits.

7.5 ESD valves are located on the plant inlet and outlet limits and, upon actuation, all plant gas feeds will be blocked in and diverted to the flare.

7.6 All detectors causing ESD shutdowns will be crossed checked to minimize false shutdowns. Audible and visible alarms will be provided in each control room. Any detection of hydrocarbon or flame detection will initiate an alarm requiring operator initiation of ESD. The cause of the ESD will be alarmed and listed in the control rooms on a first out basis. Annunciation of an ESD will be alarmed on the fire control panels at the plant entrances.

△2 7.7 A fire control alarm panel will be located at each plant entrance (2 entrances) to inform the Fire Department of cause and area of alarm.

8.0 FIRE PROTECTION SYSTEMS**

8.1 SulFerox Unit Area

△2 8.1.1 The SulFerox units contain hydrogen sulfide and hydrocarbons. Self-contained breathing apparatus and safety showers and eyewash stations shall be provided for this area.

8.1.2 Structural steel supporting vessels shall be fireproofed according to UL 1709. The fireproofing shall be capable of meeting a 2 hour UL 1709 fire rating.

8.1.3 Fixed water monitors shall be installed in the area to protect all equipment.

8.1.4 Hydrants for manual firefighting and fire truck pumper application shall be located in the area.

8.1.5 Hose reels and portable dry chemical extinguishers shall be strategically located in the area.

8.1.6 The sulfur product consists of a 40 percent water, wet sulfur cake which is non-hazardous and will be stored in approved DOT containers.

8.2 Dew Point Control Unit, Knockout Drums, Stabilizer Skid, Pipeways, Glycol Unit and Pumps

8.2.1 This area shall be protected by fixed water monitors to cover equipment, vessels and pipeways.

8.2.2 Combustible vapor/gas sensors and UV/IR flame detectors shall be installed. Vapor/gas readout from 0 to 100 percent of LEL shall be monitored at the alarm panels located in the Local Control Room and Central Control Room. The vapor/gas sensors shall provide visual and audible alarm at 25 percent and 40 percent of LEL.

8.2.3 Hydrants for manual firefighting and fire truck pumper application shall be located in the area. Required hose shall be on fire hose carts and/or fire trucks.

8.2.4 Hose reels and portable dry chemical fire extinguishers shall be strategically located in the area.

8.3 Gas Compressors and Lube Oil skids in the Compressor Building

8.3.1 Gas compressors, refrigeration compressors, and lube oil console shall be protected by an automatic water spray deluge system discharging at a rate of 0.5 gpm/sq. ft. Fixed temperature pilot heads (165°F) shall be installed in the protected area for actuation of the deluge system. A manually actuated release station shall be provided with the system riser.

8.3.2 The area UV/IR flame detectors and vapor/gas alarm systems shall be monitored at the Local Control Room and/or the Central Control Room and shall shut down plant upon alarm.

△2 8.4 Local Control Room

The Local Control Room interior shall be maintained under positive air pressure to prevent combustible vapor/gas from contaminating the area. The local control room is located upwind and away from the process area and will only be partially attended. The remote control room (1000 feet away) will be attended 24 hours per day. H_2S detections will be added to the building HVAC. Smoke detection will be provided. Adequate building protection will be provided for plant personnel and equipment.

8.5 Substation and Transformers

Substation buildings shall be located in electrical non-classified, non-hazardous area.

9.0 ELECTRICAL AREA CLASSIFICATION**

9.1 Electrical equipment installed in classified hazardous areas shall be approved for use in the specific atmosphere as outlined in the NFPA 70, National Electric Code, API RP500A, and Uniform Fire Code.

9.2 The Area Classification drawings for the Gas Processing Project will be submitted for review.

△2 10.0 FIRE PROOFING OF VESSELS AND STRUCTURAL STEEL**

10.1 Fireproofing of structural steel pipeways and vessel skirts shall be provided in areas where equipment handling liquid hydrocarbons are located. Steel structures supporting elevated equipment shall be fireproofed regardless of location.

10.2 Fireproofing material shall be protected against mechanical damage, thermal shock, and environmental conditions and shall have resistance to hydrocarbons and sulfuric acid fumes.

The types of fireproofing to be used shall have a fire resistance rating of two (2) hours in accordance with UL 1709 Rapid Rise Curve.

11.0 CRITICAL CABLE PROTECTION*

Control systems cabling for ESD will be protected by locating them underground.

12.0 DRAINAGE AND CONTAINMENT**

12.1 Drainage of firewater from the plant area shall be by swales, trenches, catch basins, or sheet flow to a remote impounding area. Path of drainage shall be designed to allow vapors to dissipate in the atmosphere. Vapor clouds resulting from liquid spills which are slow to vaporize may be dispersed with water spray application. Drainage and containment shall comply with Uniform Fire Code, Articles 79 and 80.

12.2 Open drainage systems to the oily water system shall be provided to prevent combustible vapor/gas spills from entering the storm water drainage system. Firewater or flammable liquids shall not be allowed to accumulate under pipeways, vessels, pumps, or equipment handling hydrocarbons.

13.0 ACCESS ROADS**

A plot plan showing all access and surrounding roads is attached. A plot plan with monitor and hydrant locations will be supplied at a later date. Knox locks and Knox map boxes shall be provided at each entrance. Appropriate pre-plan information will be provided at each location.

14.0 OFF-SITE MONITORING AND PROTECTION OF THE PUBLIC*

14.1 The site is currently protected at the perimeter wall by a hydrogen sulfide gas detection system.

△2 14.2 Refer to the HAZOP results to insure elimination of all risks.

15.0 LOCATION AND SEPARATION OF EQUIPMENT (SITE LAYOUT)**

15.1 A plot plan is attached for your review. the Fire Department may review the plot plan and make recommendations as to equipment spacing and plant layout, as per the applicable codes.

15.2 The plant layout shall maximize equipment separation to reduce the propagation of fire to adjacent areas.

16.0 EQUIPMENT, SYSTEM AND PROCESS SAFETY, MONITORING AND SHUTDOWNS*

Copies of the API 14C Safe Charts will be provided for your review. The HAZOPS documentation will be completed and reviewed with the appropriate fire department personnel.

△2 17.0 EMERGENCY RELIEF SYSTEMS**

17.1 Emergency relief systems will be provided and will have a rupture disk below the relief valve. The rupture disk will be equipped with an electronic tattle tale to alert the control room as to the location of the device relieving in the facility.

17.2 Pressure relief/venting systems shall be provided for equipment subject to internal pressure buildup from an external source of heat, as defined in API 14C System Evaluation.

18.0 CONTROL ROOM PROTECTION

The Central Control Room is an existing structure. The Local Control Room is addressed in Section 8.4. The Central Control Room will have full capabilities to operate the plant from a remote location. The Central Control Room will have the same safety monitoring and shutdown capabilities as the Local Control Room.

△2 19.0 EMERGENCY POWER

Currently, there is no provision for total plant emergency power. The facility will be designed for fail-safe shutdown in the event of a power loss. The oil field is currently electrified, and, if a loss of power should occur, the field is shutdown so that incoming oil, gas, and water production is shutdown. A UPS system is provided for power back-up of all

electronic computer control systems which will initiate and complete a safe ESD. Battery power back up will be provided for fire detection panels and annunciation.

20.0 PORTABLE FIRE, SAFETY AND MONITORING EQUIPMENT**

20.1 Self-contained breathing apparatus (SCBA) shall be provided in strategic areas.

20.2 Safety showers shall be installed in the areas where eye or skin irritating material is stored or handled.

21.0 EMERGENCY RESPONSE PLAN*

An Emergency Response Plan exists for the SWEPI Huntington Beach facility. Appropriate modifications to the Plan will be made to incorporate the modified facility.

△2 22.0 ONGOING INSPECTION, SAFETY, MAINTENANCE AND QUALITY ASSURANCE PLAN*

A copy of the safety, training and quality assurance manuals can be made available for review. These manuals cover all of the above 22.0 subject areas.

23.0 WORKER SAFETY AND TRAINING PROGRAM*

The current worker Safety and Training Programs can be reviewed with the local Safety/Training Coordinator located at the Huntington Beach lease.

24.0 SITE SECURITY PLAN*

The Huntington Beach site is under 24 hour guard and security. All access is limited at the entrance gates. The new plant facility is within the secured site and will have 24 hour operator attention.

25.0 HAZARD IDENTIFICATION METHODS (LABELING, ETC.)*

All stored materials will be properly labeled as per the NFPA, and Uniform Fire Code placard requirements.

26.0 HAZARDOUS MATERIALS MANAGEMENT PLAN*

The Shell Hazardous Materials Business Plan has been submitted to the Fire Department for their records. Included in the Plan are response and inventory procedures as required by SARA Title III. The Plan will be modified to accommodate the new facility.

27.0 SITE AND EQUIPMENT ABANDONMENT PLAN**

A proposal from Fluor Environmental for the abandonment of the existing plant site is attached. SWEPI is the lessee and will return the land to the lessor in accordance with its lease obligations and any Local, State or Federal regulations which may apply. The proposal outlines the appropriate testing, agency notification, remediation and closure approvals.

28.0 APPLICABLE CODES AND STANDARDS

National Fire Protection Agency (NFPA)

NFPA 10	Portable Hand Extinguishers
NFPA 11	Foam Extinguishing Systems
NFPA 13	Sprinkler System Installation
NFPA 14	Standpipe and Hose Systems
NFPA 15	Water Spray, Fixed Systems
NFPA 16	Foam Systems (if required)
NFPA 20	Installation of Centrifugal Firewater Pumps
NFPA 22	Water Tanks for Private Fire Protection
NFPA 24	Outside Protection-Private Fire Service Mains and Their Appurtenances
NFPA 26	Supervision of Valves Controlling Water Supplies for Fire Protection
NFPA 30	Flammable and Combustible Liquids Code
NFPA 54	National Fuel Gas Code

NFPA 58	Storage and Handling of LPG
NFPA 69	Explosion Prevention Systems
NFPA 70	National Electric Code
NFPA 72	Protective Signaling System
NFPA 72E	Automatic Fire Detectors
NFPA 77	Static Electricity
NFPA 80A	Protection from Exposure Fires
NFPA 101	Life Safety Code
NFPA 325M	Properties of Flammable Liquids, Gases, Solids
NFPA 1961	Fire Hose
NFPA 1962	Care and Use of Fire Hose
NFPA 1963	Fire Hose Connections
NFPA 1981	Self Contained Breathing Apparatus for Fire Fighters

Uniform Fire Code

City of Huntington Beach, Title 15

CAL OSHA

State Fire Marshal Listings

API 14C

Design of Safety Systems

API 520

Design of Pressure Relieving Systems

API 521

Guide for Pressure Relief Systems and Depressuring Systems

API 750

Management of Process Hazards

29.0 PLAN SUBMITTAL AND APPROVAL PROCESS

29.1 Items highlighted by a single asterisk (*) are information/specifications which will be provided for review, but not approval, of the City of Huntington Beach Fire Department and it's independent consultant. Items highlighted by a double asterisk (**) are items/components/safety systems which will be installed where appropriate and are listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.

29.2 SWEPI agrees to comply with safety requirements as listed in the appropriate codes and standards section. High safety standards are important to SWEPI; however, should a disagreement arise between the independent consultant and SWEPI on a particular safety issue, SWEPI reserves the right for the City of Huntington Beach Fire Department to consider design systems provided which are in SWEPI's/Fluor Daniel's opinion "as safe as" those required by the recommendations of the independent consultant.

30.0 FIVE YEAR UPGRADE PROGRAM FOR TANK FARM #1 (MODERNIZED OIL DEHYDRATION FACILITIES)*

SWEPI agrees to submit a plan for an upgrade to the fire protection systems at the Modernized Tank Farm to be completed prior to 1996. The project description and schedule will be submitted the City of Huntington Beach Fire Department by the end of second quarter 1992. The plan for the fire protection system upgrade will be in accordance with this specification and codes within this document. A separate Fire Protection Plan will be submitted for the Tank Farm and will be similar to this Gas Plant Fire Protection Plan.

** Documentation/information which will be provided to the City of Huntington Beach Fire Department and it's independent consultant for review.*

*** Items/components/safety systems which will be installed where appropriate and listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.*

When approved by the Huntington Beach Fire Department, this document shall serve as the official Fire Protection Plan for the SWEPI Gas Processing Project facility at Golden West Blvd. and Pacific Coast Highway.

APPROVED BY:

J. A. Thomas for J. A. Ruhl Date 7/11/91
Authorized Agent for:
Shell Western E&P, Inc.

_____ Date _____
Huntington Beach Fire Department

APPENDIX A

ON SITE STORAGE

300 gallons of 3% Ansul foam concentrate.

MUTUAL AID STORAGE

4,500 gallons of 3% Ansul foam concentrate located at Wilmington Manufacturing Complex.

FLUOR DANIEL

INTEROFFICE CORRESPONDENCE

To:	Jim Langer	Date:	April 4, 1991
Location:	Bakersfield	Reference:	
From:	Dan Johnnie		
Location:	Irvine, 511T	Client:	SWEPI
Extension:	5322	Subject:	Closure Plan & Investigation

cc: W G Hall, Irvine 552M
C G Mattsson, Irvine 552M
L S Pernot, Irvine 552M
C L Phelps, Bakersfield
C R Stultz, Irvine 552M

Attached is the revised draft of our proposal for the Closure Plan and Investigation for Gas Plant No. 11. This draft includes your request for adding the pipeline adjacent to the Bolsa Chica Wetlands to the scope of work. The scope of work has also been modified to reflect a phased approach. The first phase will provide valuable information on potential surface and subsurface contamination areas, finalize regulatory requirements for closure of a non-RCRA facility, and provide a Closure Plan for submittal to the appropriate agency. The second phase will provide detailed information on potential surface and subsurface contamination, final Closure Report, and recommendations for remediation.

The cost estimate is being reviewed by management and will be presented at the meeting next week.

clsrinvst

PROPOSAL FOR CLOSURE PLAN & INVESTIGATION GAS PLANT NO. 11

SHELL WESTERN E & P, INC.
HUNTINGTON BEACH PRODUCTION UNIT

Fluor Daniel, Inc. is pleased to submit this proposal to prepare a Closure Plan and perform a field investigation for the Shell Western E & P, Inc. (SWEPI) Huntington Beach Production Unit, Gas Plant No. 11. This proposal presents our project approach, scope of work, deliverables, schedule for completing the project, and budget estimate.

BACKGROUND

It is Fluor Daniel's understanding that the Gas Plant No. 11 will be decommissioned and dismantled by 1994, prior to the site being restored to a natural condition and turned over to the property owners for subsequent transfer to the City of Huntington Beach for use as park land. As a result of meetings with Mr. Jim Langer and Mr. Sub Sen, Fluor Daniel was requested to develop a proposal to prepare a closure plan, conduct a site closure investigation, and submit documentation that the site meets regulatory requirements for closure and property transfer.

PROJECT APPROACH

The objective of the Closure Plan and Site Closure Investigation is to meet applicable regulatory requirements for the complete dismantling and property transfer of Gas Plant No. 11. Fluor Daniel proposes to conduct the activities in multi-phased approach. The project approach includes:

- Conducting an initial scoping investigation prior to decommissioning Gas Plant No. 11.
- Reviewing available information pertaining to the storage, treatment, or disposal of waste on site; existing soil and ground water data; site history and previous site use.
- Contacting appropriate regulatory agencies to determine specifically what documentation must be provided to individual agencies.
- Conducting a site visit, file review, and interviews with SWEPI staff.
- Conducting a limited field investigation to determine the extent of possible subsurface impact by past operation of the Gas Plant No. 11.
- Conducting a limited field investigation along the pipeline chase adjacent to the Bolsa Chica Wetlands area.
- Preparing a final Closure Report summarizing the investigation and observations. An additional and separate Recommendations Report will be submitted to SWEPI.

The field investigation will be conducted to identify and define potential surface and subsurface contamination. The field investigation activities will include soil borings, shallow ground water monitoring wells, field analysis of collected samples for organic compounds, and collection of specific soil and ground water samples for laboratory analysis. Services rendered during this entire project will be conducted in a discrete manner and kept confidential.

SCOPE OF WORK

Fluor Daniel recommends the following specific scope of work for the Gas Plant No. 11 Closure Plan and Investigation. The activities have been divided into two phases.

Phase I Activities

1. SITE RECONNAISSANCE - Fluor Daniel staff will meet with key SWEPI staff to develop an understanding of past operations at Gas Plant No. 11. This will include interviewing staff who may have worked at Gas Plant No. 11 during its early history. Along with the interviews, Fluor Daniel staff will review facility files and site drawings to identify potential release points.

   In addition, Fluor Daniel staff will conduct a detailed field inspection to locate potential sampling locations. Fluor Daniel staff will follow-up this field inspection with a meeting with SWEPI to discuss actual boring numbers, locations, and depths. All borings and ground water monitoring well locations will be approved by SWEPI prior to submitting the Closure Plan to the appropriate regulatory agency.

2. CLOSURE PLAN - Fluor Daniel will prepare a Closure Plan for submittal to the appropriate agency. The Closure Plan will meet the county requirements for closure of a non-RCRA facility. The Closure Plan will:

   - Provide a description of the site and a discussion of the facility history.
   - Describe the proposed field investigation to demonstrate a clean closure.
   - Include the number, location, depth, and sampling frequency of the soil borings and ground water monitoring wells.
   - Provide a Health & Safety Plan to be applied during all field activities.
   - Describe the analytical methods to be performed on samples.
   - Include an outline of the Closure Report that will be submitted to the reviewing agency.

3. PRELIMINARY FIELD INVESTIGATION - Fluor Daniel staff will conduct a preliminary field investigation at Gas Plant No. 11 prior to decommissioning and dismantling activities.

   - The field investigation team will drill six shallow soil borings using a hand auger.
   - The depth of the borings will be determined by the local soil conditions. An attempt will be made to reach ten feet in depth to collect soil samples.
   - Soil borings will be logged geologically and soil samples will be collected for analysis off-site at an analytical laboratory.

4. LABORATORY ANALYSIS - Preliminary Field Investigation: Selected soil samples will be taken to a California Department of Health Services (CDOHS) Certified laboratory for further chemical analysis. Soil samples will be analyzed by U.S. EPA Method 8240 (volatile organic compounds (VOC)), Method 418.1 (total petroleum hydrocarbons (TPH)), and Method 6010 (metals).

5. PRELIMINARY FIELD INVESTIGATION REPORT - Fluor Daniel will prepare a report containing field observations and analytical results from the preliminary limited field investigation. The goal of this report is to provide SWEPI a very general idea of subsurface conditions. The report will be prepared and submitted to SWEPI for review following field activities and analytical results.

6. MONTHLY STATUS REPORTS - Fluor Daniel will attend a project status meeting a minimum of once each calendar month to report to SWEPI on the status of activities. A written status report will be provided at the same time. In addition, Fluor Daniel will also attend meetings at critical decision points. SWEPI will be advised by telephone of important developments. Conference Notes will be developed by Fluor Daniel to document formal meetings and important telephone conversations with agencies and SWEPI.

Phase II Activities

1. FIELD SAMPLING TASK - Following facility dismantling and agency approval of the Closure Plan, Fluor Daniel staff will conduct a limited subsurface investigation at the Gas Plant No. 11.

   - The field investigation team will drill a minimum of 15 borings to a maximum of 24 borings to an approximate depth of fifteen feet or to ground water. (the depth is dependent upon site conditions such as depth to ground water, visual contamination, and mobile laboratory results)

   - Soil borings will be logged geologically and soil samples retrieved for analysis on-site at a mobile laboratory and/or analysis off-site at an analytical laboratory.

   - The drilling contractor and the mobile laboratory typically operate at a day rate. Fluor Daniel staff will drill as many soil borings as possible during each day to check for the presence of visually impacted soils or soils which contain volatile organic compounds. Seven days of field activities have been scheduled.

   - A minimum of three and up to a maximum of five 2-inch shallow ground water monitoring wells will be installed. The wells will be designed to acquire ground water samples for laboratory analysis. The monitoring well design will comply with design recommendations developed by the U.S. EPA and California Department of Health Services, Toxic Substance Control Program. Monitoring wells will be developed to meet the water sample clarity requirements for the analytical laboratory.

   - Ground water samples will be collected using procedures discussed in the U.S. EPA's RCRA Ground-Water Monitoring Technical Enforcement Guidance Document, September 1986.

2. FIELD SAMPLING TASK - During Task 1 Fluor Daniel staff will also conduct a limited subsurface investigation along the pipeline chase that carries gas from off-shore platforms to Gas Plant No. 11.

   - A maximum of 8 soil borings will be hand augured along side the chase as soil conditions allow.

   - The depth of the borings will be determined by the local soil conditions. An attempt will be made to reach five feet in depth to collect soil samples.

   - Soil borings will be logged geologically and soil samples will be collected for analysis off-site at an analytical laboratory.

3. LABORATORY ANALYSIS - A CDOHS Certified mobile laboratory will be utilized on-site to conduct limited chemical analyses. This will provide the most cost effective use of field investigation resources by defining the areas impacted while field staff are on-site and the field investigation is in progress. In addition, selected soil and ground water samples will be collected and taken to a CDOHS Certified laboratory for further chemical analysis.

   - Fluor Daniel staff will collect a maximum of 61 soil and five ground water samples, to be analyzed by the mobile laboratory. The samples will be analyzed by U.S. EPA Method 8020/602 (purgeable aromatic compounds (BTEX)) and Method 418.1 (TPH).

   - A maximum of five soil samples and three ground water samples will be collected for further laboratory analysis. Specific samples, identified in the field, will be properly stored and taken to a CDOHS Certified laboratory, following proper chain of custody, for chemical analysis by U.S. EPA Method 8240/624 (volatile organic compounds), Modified Method 8015 (hydrocarbon chain fingerprint), Method 6010/200.7 (metals including vanadium) and Method 7196/218.4 (hexavalent chromium). In addition, three selected soil samples will be analyzed by a Priority Pollutant Scan (chlorinated pesticides, PCB's, VOC's, BNA, cyanide, phenols, and general metals) and five samples will be collected and analyzed for asbestos.

4. LABORATORY ANALYSIS - Pipeline chase associated with Task 2: On-site and off-site sample analysis will be conducted similarly to samples collected and analyzed at Gas Plant No. 11. Metals analysis will not be conducted unless pre-investigation review indicate a need. No Priority Pollutant or asbestos analyses will be conducted on these samples.

5. DRAFT CLOSURE REPORT - Fluor Daniel will prepare a draft Closure Report containing observations and conclusions relating to the apparent environmental conditions at the site. The report will provide an introduction, site history, description of field activities, summary of analytical results, and conclusions. Recommendations will not be included in this report. The report will be prepared and submitted to SWEPI staff for review and comments.

6. FINAL CLOSURE REPORT - Fluor Daniel will prepare a final Closure Report. The final report will be prepared utilizing the draft report and comments received from SWEPI. This final Closure Report will be submitted to the appropriate agency for review.

7. RECOMMENDATIONS REPORT - Fluor Daniel will prepare a report summarizing the field investigation results and suggesting possible recommendations for future investigatory work and remediation if judged to be necessary. The report will be submitted to SWEPI. Order-of-magnitude cost estimates will be provided for any recommended work.

8. MONTHLY STATUS REPORTS - Fluor Daniel will attend a project status meeting a minimum of once each calendar month to report to SWEPI on the status of activities. A written status report will be provided at the same time. In addition, Fluor Daniel will also attend meetings at critical decision points. SWEPI will be advised by telephone of important developments. Conference Notes will be developed by Fluor Daniel to document formal meetings and important telephone conversations with agencies and SWEPI.

DELIVERABLES

Fluor Daniel will provide the following deliverables within the approved schedule:

- A Preliminary Investigation Report (3 copies) will be provided to SWEPI following receipt of analytical results for samples collected during the preliminary field investigation activity.
- A Closure Plan (6 copies) will be provided to SWEPI for submittal to the appropriate agencies.
- A draft Closure Report (1 copy) will be provided to SWEPI for review and comments.
- A final Closure Report (6 copies) will be provided to SWEPI for submittal to the appropriate agencies.
- A Recommendations Report (3 copies) will be provided for SWEPI for review and discussion.
- Fluor Daniel will provide a written status report each calendar month.
- Conference Notes will be transmitted to SWEPI within ten working days following the meeting for concurrence by SWEPI.

ASSUMPTIONS

The development of this proposal is based upon the following assumptions:

- Current regulatory compliance cannot be ascertained without contacting appropriate regulatory agencies, reviewing existing permits, and performing extensive regulatory review.
- The scope of work proposed herein, is based upon Fluor Daniel's experience with closure of non-RCRA facilities in Orange County and the lack of specific rules regulating non-RCRA closures. Changes in county or state policy concerning non-RCRA closure may require changes in the scope of this project.

The field investigations may identify unanticipated contamination, and therefore additional borings, ground water monitoring wells, and samples may be recommended.

- Key SWEPI staff at the facility will grant access to and provide pertinent information to Fluor Daniel.

- Turnaround for standard laboratory analysis results will be six weeks.

- Project schedule is dependent upon completion of Gas Plant No. 11 removal prior to field investigation project activities, excluding the preliminary field investigation (Phase I,Task 3).

- Sampling activities will be conducted in Level D personal protective equipment unless field conditions and Health & Safety Plan implementation establishes higher personal protection. Changes in the level of personal protection may impact the proposed schedule.

- Fluor Daniel staff will provide personal protective equipment.

- The Recomendations Report may have future investigation and remediation cost estimates which will be based upon the limited scope of this project.

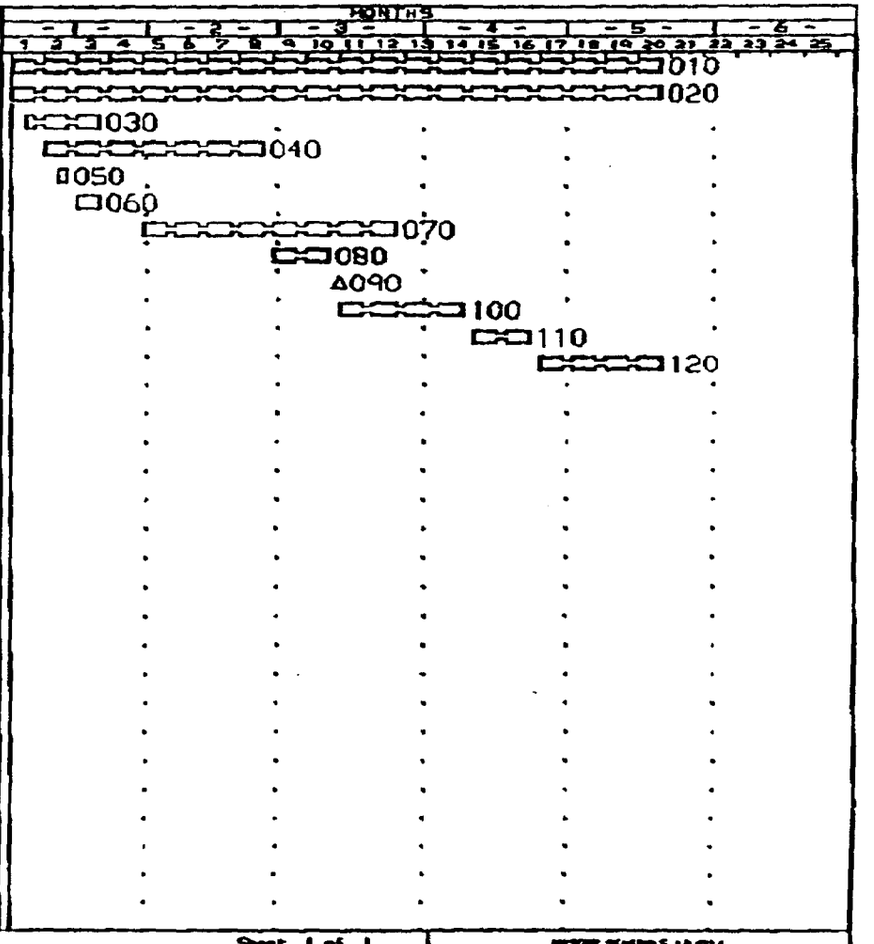
SCHEDULE

A proposed schedule, Figures 1 and 2, are provided for your review and comment. This schedule is provided in weeks of activities instead of actual dates due to the variability of the project at this time. A revised detailed schedule will be provided once various project start dates are established.

FIGURE 1

PROJECT SCHEDULE
PHASE I

ACTIVITY ID	ACTIVITY DESCRIPTION	ORIG DUR	TOTL FLT
010	PRE-INVESTIGATION PLANNING	100	0
020	REGULATORY CONTACTS	100	0
030	FILE REVIEW	12	10
040	CLOSURE PLAN PREP	35	0
050	SITE INSPECTION	2	10
060	PREL FIELD INVEST.	5	10
070	PREL FIELD INVESTIGATION RPT	40	10
080	CLOSURE PLAN CLIENT REVIEW	10	0
090	CLOSURE PLAN SUBMITTAL	1	0
100	AGENCY REVIEW & COMMENTS	20	0
110	CLOSURE PLAN REVISION & SUBMITTAL	10	0
120	CLOSURE PLAN REVIEW & APPROVAL	20	0



PHASE 1

Primavera Systems, Inc.

SHEPI
CLOSURE PLAN & INVESTIGATION
HUNTINGTON BEACH PRODUCTION UNIT

Sheet 1 of 1

PROJECT ORGANIZATION

Fluor Daniel proposes the following project organization and responsibilities. Their resumes are provided at the end of this proposal.

- PROJECT MANAGER - Dan Johnnie will act as Project Manager and direct liaison between Fluor Daniel and SWEPI.
- TASK MANAGER - Chuck Stultz, Registered Environmental Assessor (REA), will act as Task Manager during the proposed phases of the project. Chuck will work directly with SWEPI to direct field work and project development.
- HEALTH & SAFETY MANAGER - David Jackson, Certified Industrial Hygienist (CIH), will act as the Health & Safety Manager and will be in charge of design and implementation of the Health & Safety Plan.
- TECHNICAL STAFF - Gustavo Valdivia and Tom Casabonne will provide technical assistance during office and field investigation activities.

CLOSURE PLAN & INVESTIGATION
PROJECT ORGANIZATION CHART

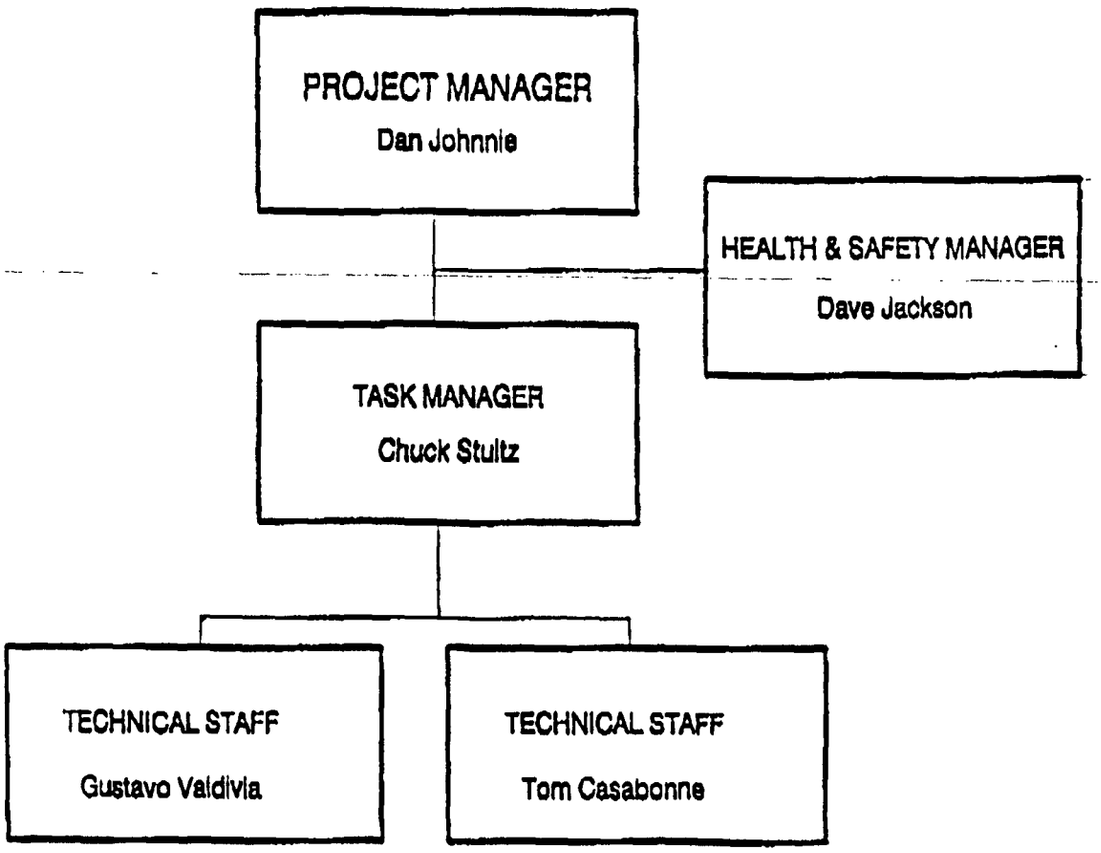
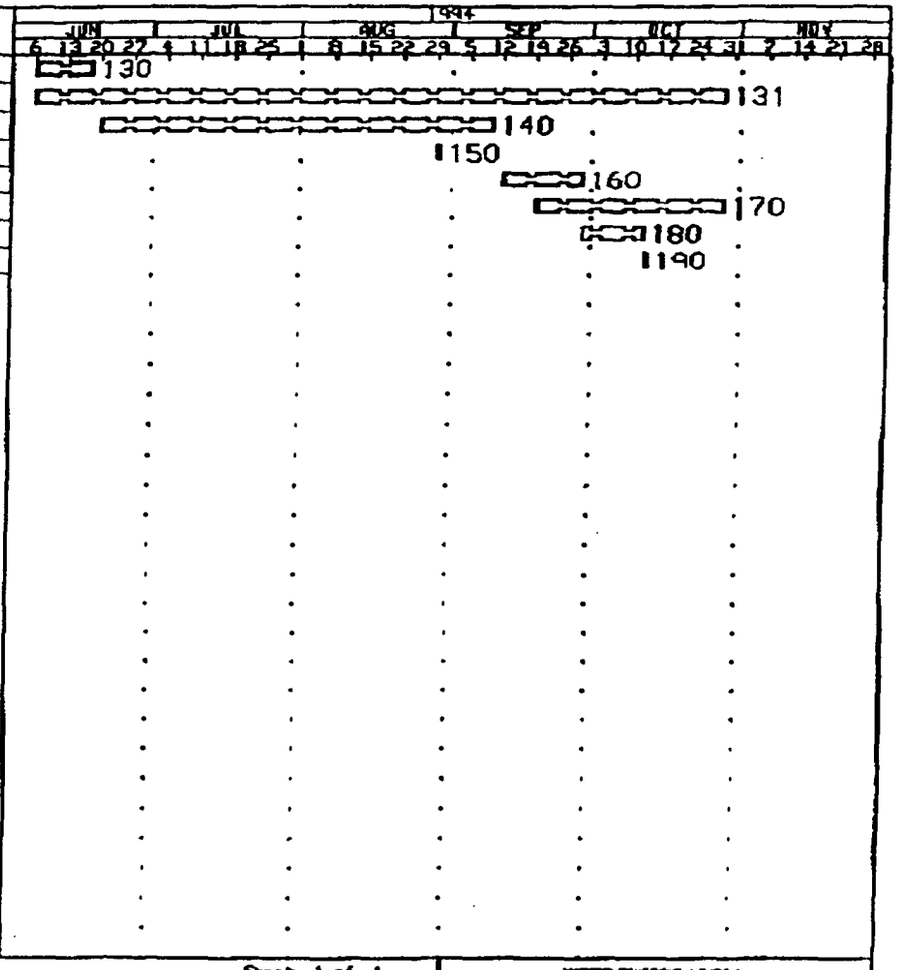


FIGURE 2

PROJECT SCHEDULE
PHASE II

ACTIVITY ID	ACTIVITY DESCRIPTION	ORIG DUR	TOTL FLT
130	FIELD INVESTIGATION	10	0
131	REGULATORY CONTACTS	105	0
140	DRAFT REPORT PREPARATION	60	0
150	RECEIVE ANALYTICAL RESULTS	1	9
160	DRAFT REPORT SUBMITTAL & COMMENTS	13	0
170	SUMMARY RPT PREP & SUBMITTAL	30	0
180	FINAL REPORT PREP	9	12
190	FINAL REPORT SUBMITTAL	1	12



PHASE 2

Activity
Activity Bar/Early Dates
Critical Activity
Progress Bar

Primavera Systems, Inc.

SHEPI
CLOSURE PLAN & INVESTIGATION
HUNTINGTON BEACH PRODUCTION UNIT

Project Start : 21MAR94
Project Finish: 28OCT94

Sheet 1 of 1

Data Date: 3JAN94
Plot Date: 4FEB94

Date	Revision	Checked	Approved

APR-04-'91 16:14 ID:FLUOR DANIEL MSG CTR TEL NO:714-957-5271 #300 P11

SHELL WESTERN EXPLORATION & PRODUCTION, INC.
HUNTINGTON BEACH
GAS PROCESSING PROJECTS

ENVIRONMENTAL ASSESSMENT

Submitted By:

Shell Western E & P, Inc.
5060 California Avenue
Bakersfield, California

Prepared By:

Fluor Daniel, Inc.
3333 Michelson Drive
Irvine, California

July 1991

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

PROJECT DESCRIPTION

Shell Western Exploration and Production, Inc. (SWEPI) is proposing to dismantle the existing natural gas processing plant, Gas Plant #11, at the Huntington Beach Production Unit and construct a smaller replacement gas plant. The expected cost of the project is approximately $10 million.

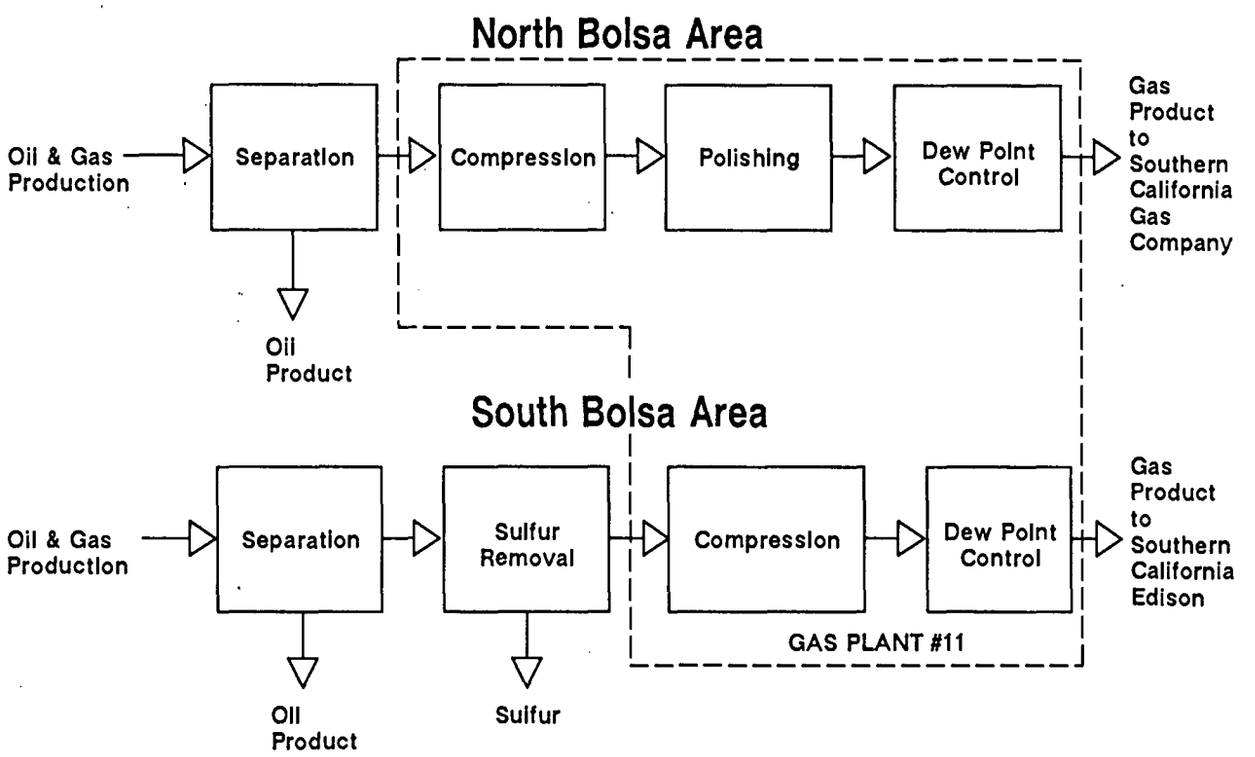
The proposed gas plant will be located at the existing SWEPI Huntington Beach Facility Strip near Goldenwest Avenue and Pacific Coast Highway. Gas Plant #11 is located north of the Strip within the bounds of the proposed linear park project.

The proposed gas plant will have a capacity of 6 million standard cubic feet per day (MMSCFD), reduced from the Gas Plant #11 original rating of 42 MMSCFD. Natural gas will continue to be processed from the North Bolsa Area (NBA) and the South Bolsa Area (SBA). Gas from the NBA is processed and sold to Southern California Gas Company. Gas from the SBA, which is higher in sulfur compounds and carbon dioxide, is processed and sold to Southern California Edison.

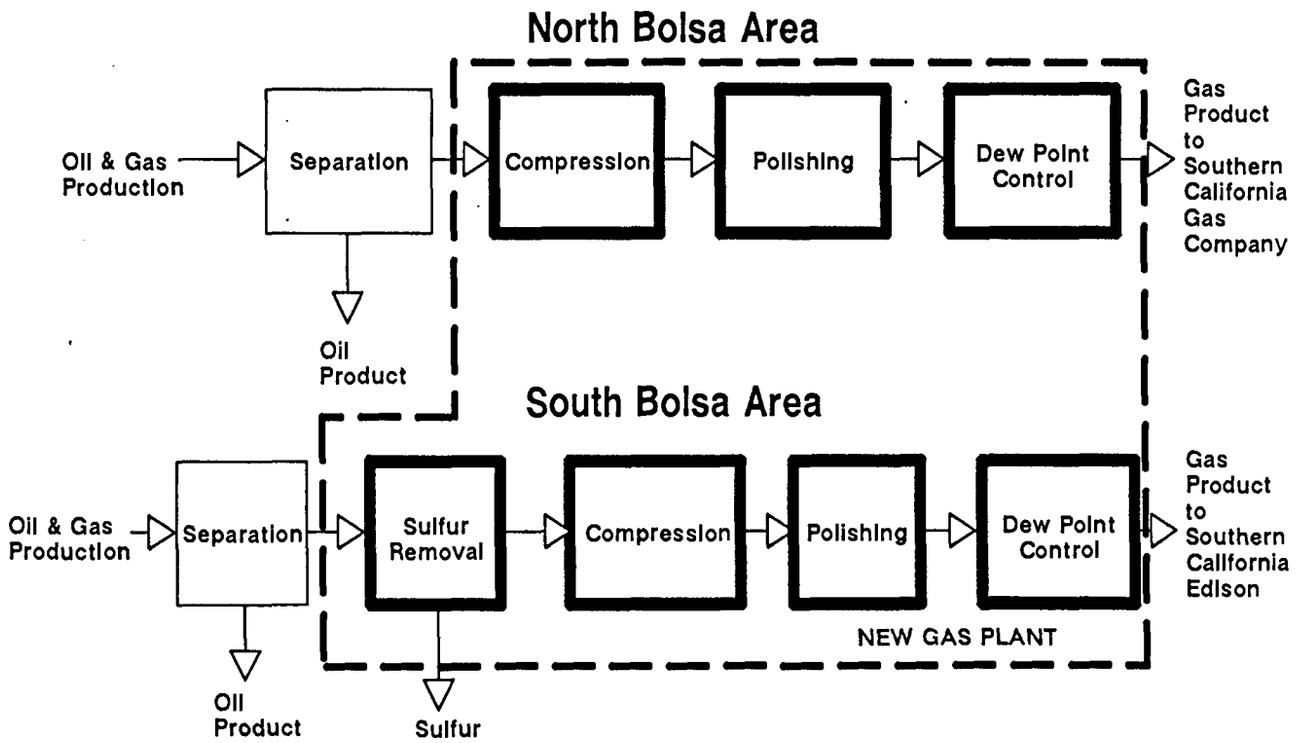
The proposed gas plant will utilize several processes which are functionally equivalent to those in Gas Plant #11. The inlet compression will include two working and one spare gas compressor trains. Each compressor will be a two-stage electric drive reciprocating machine. Hydrogen sulfide is removed from the SBA gas stream with the SulFerox® system. The SulFerox® system will use an iron chelate to remove the H_2S from the stream. The NBA and SBA gas streams will be treated separately with two Sulfa Treat® systems to further reduce the H_2S to meet pipeline specifications. The gas streams will then be processed through separate dew point control units to meet the dewpoint requirement of 45 °F. The dew point control units will inject ethylene glycol to remove water and use propane coolers to cool the gases and condense heavier components. An emergency ground flare will be included in the project to control excursion emissions. Simplified process flow sketches of Gas Plant #11 and the proposed gas plant are presented in Figure I.

FIGURE I
Simplified Flow Sketches

EXISTING FACILITY



PROPOSED FACILITY



BENEFITS

Control equipment incorporated into the design of the proposed gas plant will enable the total emissions to be reduced by approximately 7,800 tons per year as shown in Figure II. Specific emission reductions of 53% to 99% will be realized with this project, with no increase in emissions of any single component. The reductions are shown in Figure III and will be accomplished by the replacement of internal combustion engine compressor drivers with electric motors, improved H_2S removal systems, and the use of an emergency ground flare for destruction of gas excursions. The seven fold reduction in plant capacity also reduces fugitive emissions since fewer and smaller components will be required.

Noise level impacts will be controlled by several methods. The existing internal combustion engines used to drive compressors and air cooler fans will be replaced with quieter electric motors. Fewer control valves, which are a potential noise source, will be required because of the reduction in capacity. The overall noise level will be reduced by 5 dBA. The perceived loudness will be reduced by 25 percent.

The removal of Gas Plant #11 is consistent with the plans for the linear park and will decrease the amount of noise, traffic and emissions near the Bolsa Chica wetlands. SWEPI intends to dismantle Gas Plant #11 once the proposed gas plant is fully operational and will restore the existing site consistent with SWEPI's Lease Agreements and all applicable federal, state and local regulations. The proposed gas plant will be located on the Strip and will not change the land use of the area.

The proposed gas plant will be inherently safer, due to the elimination of 50,000 gallons of natural gasoline storage, the reduction of propane storage from 30,000 gallons to 300 gallons, the reduction in the amount of hazardous waste generated, and inclusion of state-of-the-art computer command and control for facility operations. An upgraded fire protection system will also be provided for the proposed gas plant, and a comprehensive Fire Protection Plan has been submitted to the City of Huntington Beach Fire Department.

The checklist in Table I indicates how the proposed project will affect the twenty areas of concern identified in the California Environmental Quality Act (CEQA) regulations. The proposed project will have a beneficial impact on the surrounding community and environment.

Figure II
Emission Rates - Total

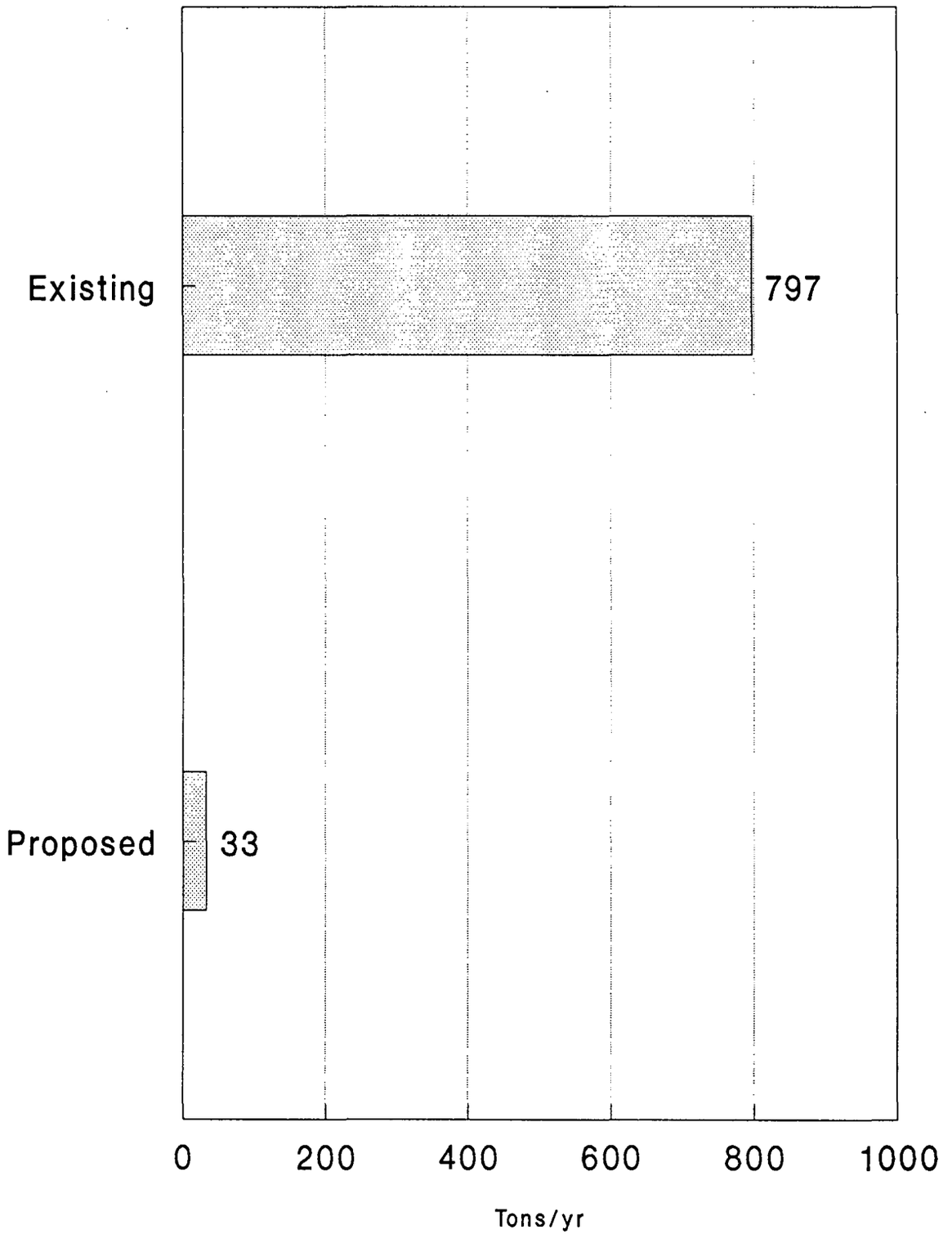


Figure III
Percent Emission Reduction by Component

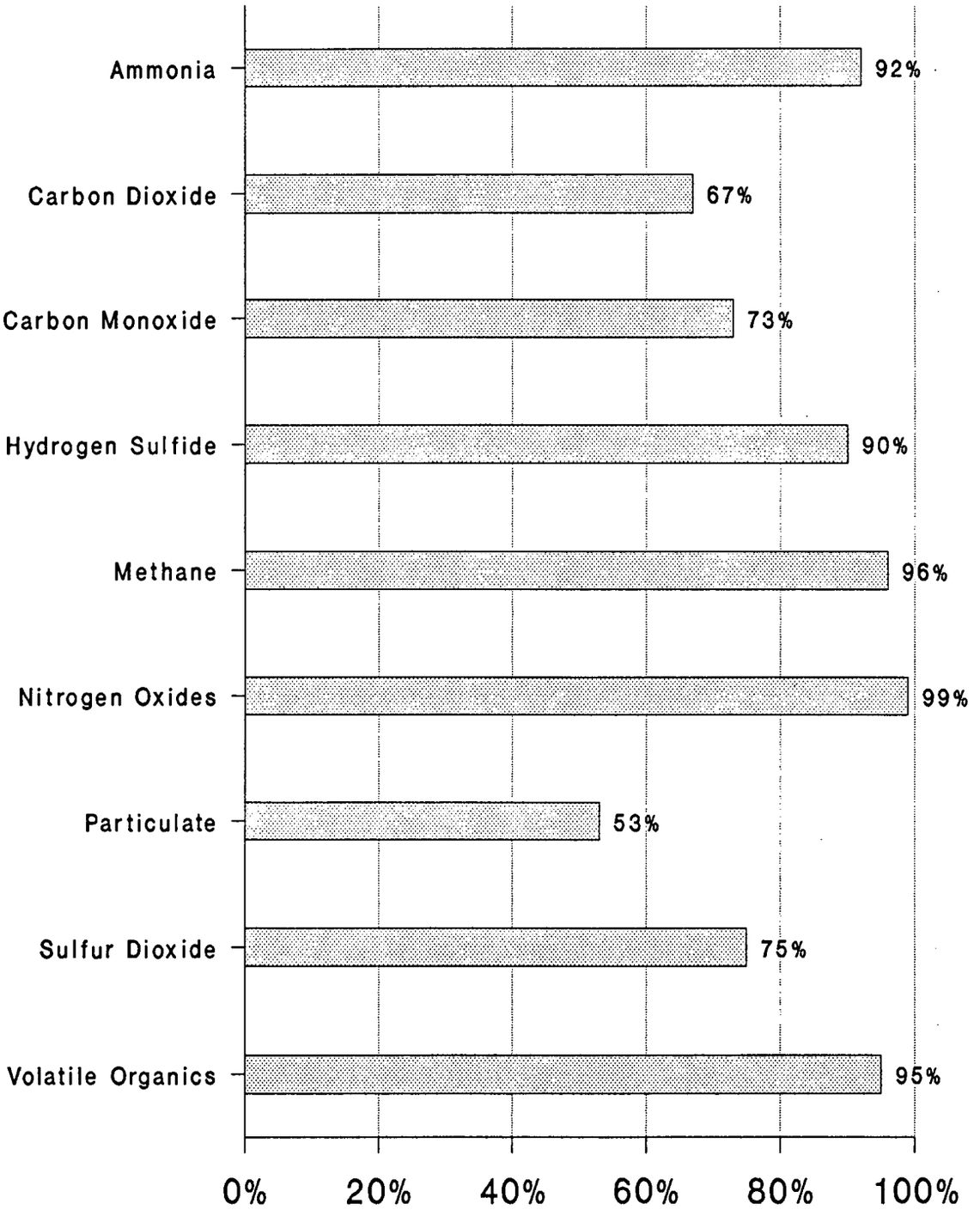


Table I

CEQA Checklist

CEQA Item	Will Positively Affect	Will Not Affect	Could Negatively Affect
Earth		✓	
Air	✓		
Water		✓	
Plant Life	✓		
Animal Life	✓		
Noise	✓		
Light/Glare		✓	
Land Use	✓		
Natural Resources	✓		
Risk of Upset	✓		
Population		✓	
Housing		✓	
Transportation/ Circulation		✓	
Public Services		✓	
Energy		✓	
Utilities		✓	
Human Health	✓		
Aesthetics	✓		
Recreation	✓		
Cultural Resources		✓	

1.0 CITY OF HUNTINGTON BEACH PLANNING DIVISION ENVIRONMENTAL ASSESSMENT FORM

1.0 *CITY OF HUNTINGTON BEACH PLANNING DIVISION ENVIRONMENTAL ASSESSMENT FORM*

1.1 *GENERAL INFORMATION*

1. *Name of Property Owner* Shell Western E&P, Inc.
   Address 5060 California Avenue
   City Bakersfield *State* CA *Zip* 93389
   Telephone (805) 326-5000

2. *Name of Authorized Agent* N/A
   Address _____
   City _____ *State* _____ *Zip* _____
   Telephone _____

3. *List any other related permits or approvals required from Agencies other than City of Huntington Beach, i.e. Caltrans, Coastal Commission:*

Type of permit	Agency	If approved, give date
Permits to Construct	South Coast Air Quality Management District	
Permits to Operate	South Coast Air Quality Management District	

The existing facility required a conditional use permit under Ordinance 9680.2 because the site is classified as combined zone M2-O-CZ (industrial-oil with drilling-coastal zone). The facility is currently operating under Use Permit No. 50-71 which was issued by the Board of Zoning Adjustments on 11/18/70 to Signal Oil and Gas Company. The permit has been amended twice; in 12/28/70 and 1/19/71. This permit allows the "drilling and operating for the discovery or production of oil, gas, hydrocarbons and/or kindred substances in their natural state, including the installation and use of equipment, structures, tools an other facilities incidental, necessary, and accessory to the drilling, production, repressuring and processing of substances produced by such wells for shipment to pipeline." No additional use permits should be required since the proposed project is consistent with these permit conditions.

The facility has been exempted from the coastal development permit requirements by the Coastal Commission Resolution of Exemption No. E-2-15-73-71 given to Signal Oil and Gas Company. This exemption includes any activities related to the "repair, maintenance, replacement, installation, and expansion of gathering, metering, testing, cleaning, and shipping facilities necessary to the production and sale of oil and gas". The proposed project is consistent with this exemption because it involves the cleaning of the gas prior to sale and is replacing an existing gas processing facility.

4. *Is the proposal part of a larger project or series of projects? If so, describe the proposal's relationship to the project or series of projects:*

This project is not part of a larger project or series of projects.

1.2 LOCATION OF PROJECT:

5. *Address*:

20101 Goldenwest Street
Huntington Beach, CA 92648

6. *The project site is located on the north, ~~south, east, west~~ (circle one) side of* Pacific Coast Highway *between* Warner Avenue *and* Goldenwest *Street*. A vicinity map is provided in Figure 1-1. An aerial photograph of the Strip and areas immediately surrounding the Strip is provided in Figure 1-2a. This photograph was taken in February 1991. The overlays show the outline of the existing gas plant (Gas Plant #11), the location of the proposed project site and the outline of the proposed linear park.

A perspective photograph showing the Strip from the southeast is provided in Figure 1-2b. This photograph was taken in October 1990. The overlays indicate the location of Gas Plant #11 and the proposed project site.

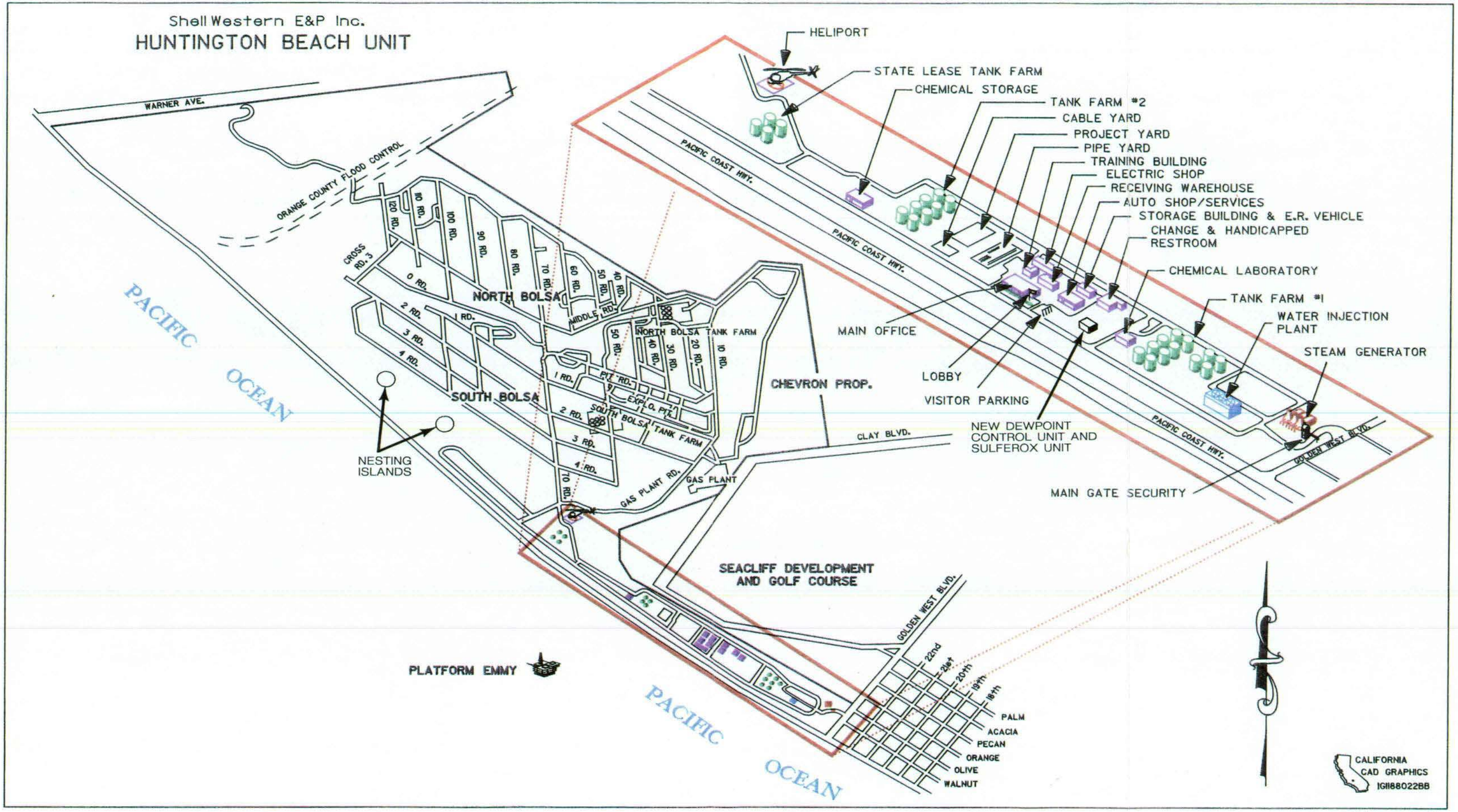
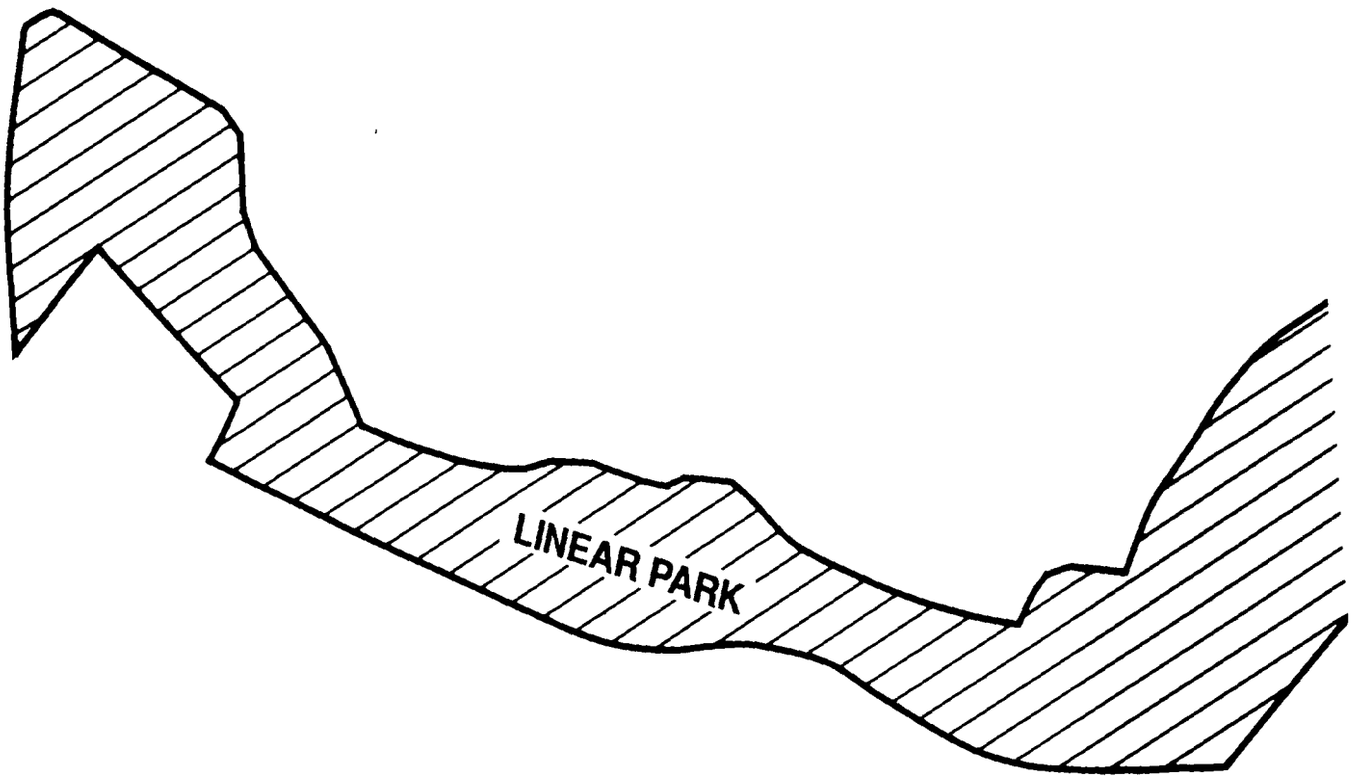
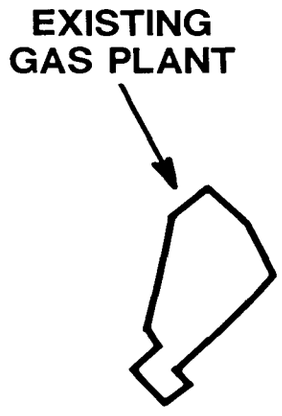
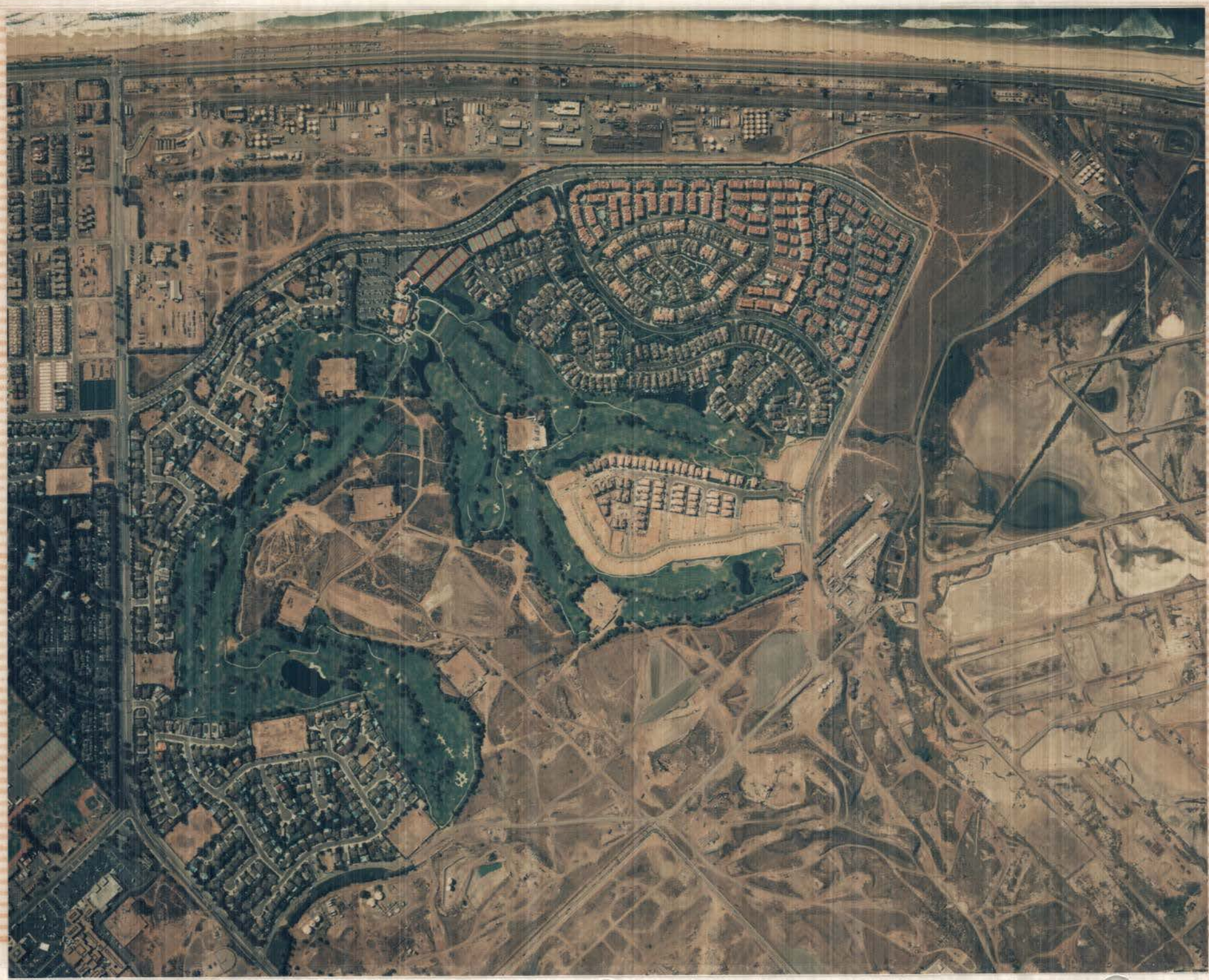


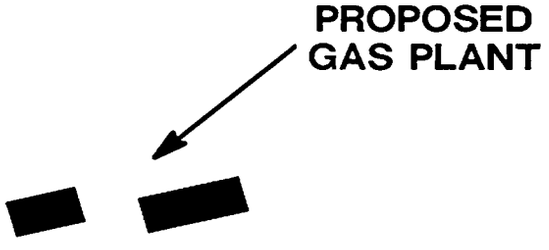
Figure 1-1
Vicinity Map


LINEAR PARK


PROPOSED
GAS PLANT


EXISTING
GAS PLANT




PROPOSED
GAS PLANT

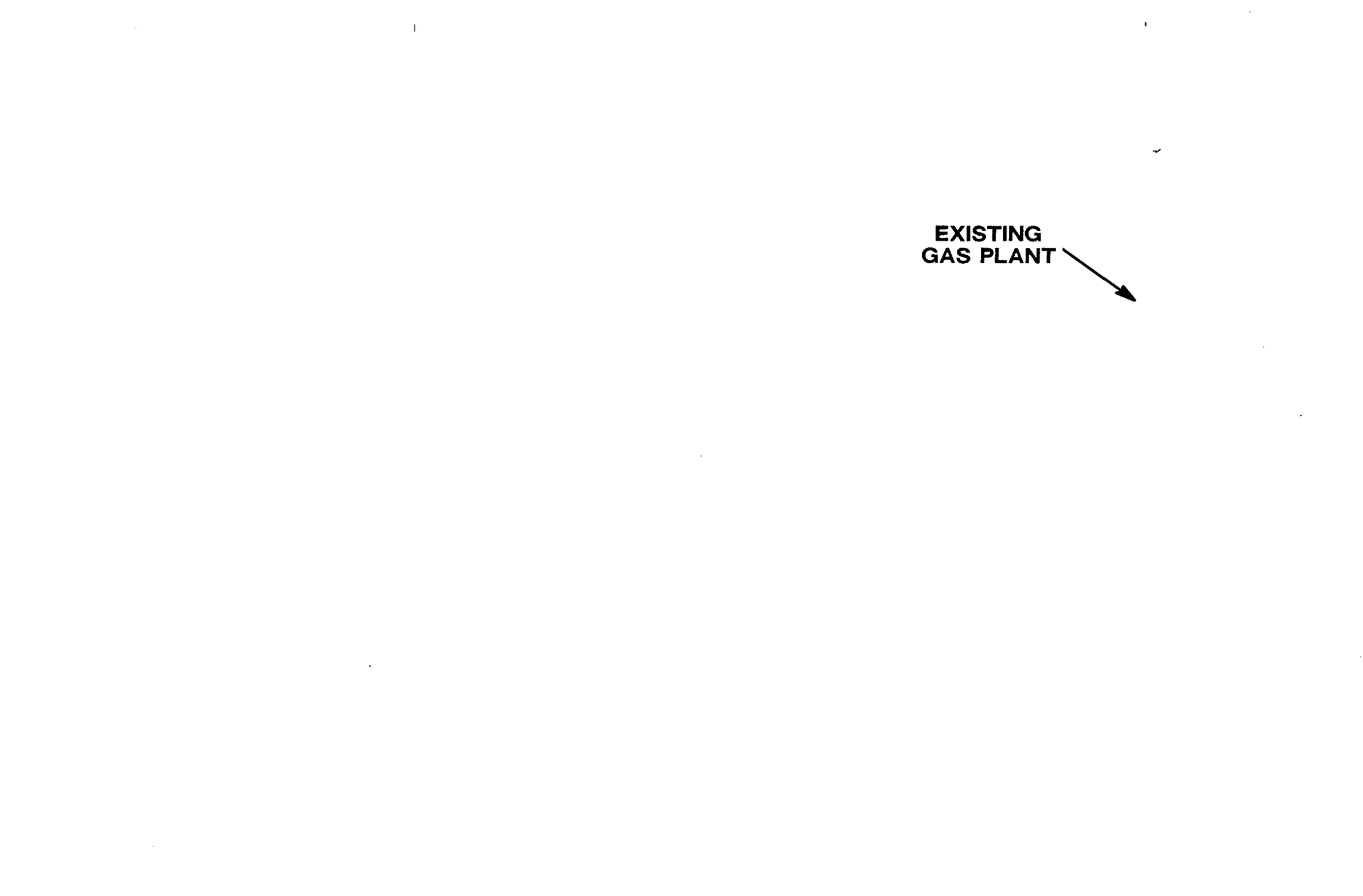

EXISTING
GAS PLANT

Figure 1-2b



Figure 1-2c shows a similar perspective photograph as Figure 1-2b, with abandoned items deleted and a computer-generated images of the proposed gas plant superimposed. The overlay shows the location of the proposed compressor building, dew point control building and SulFerox® building. The computer-generated image of the proposed compressor and dew point control units is shown in further detail in Figure 1-2d. The computer-generated image of the proposed SulFerox® unit is shown in further detail in Figures 1-2e.

1.3 PROJECT DESCRIPTION:

7. Site Size: _____ *gross acres/square feet.*

_____ *net acres/square feet.*

The entire Huntington Beach Facility site is approximately 3,960,000 gross square feet (~91 acres) in size including the Strip and Gas Plant #11 sites. The proposed project site will occupy approximately 53,750 net square feet (~1.2 acres), which is about 1.5% of the facility site. The facility site size will be reduced by approximately 112,500 square feet (2.6 acres) when Gas Plant #11 is demolished and the land returned to the lessors. This land has been designated for future development of the linear park. A plot plan of the proposed project is provided in Figure 1-3.

8. What is the surrounding land use to the north, south, east and west?

The proposed project site is zoned M2-O1-CZ (industrial-oil with drilling-coastal zone). The land to the north of the proposed project site is primarily residential, zoned R3-17-O-CZ (medium-high density residential-oil-coastal zone), R4-29-O-CZ (high density residential-oil-coastal zone), and R4-O-CZ (high density residential-oil-coastal zone). The land to the south of the proposed project site is beach front, zoned S1-O-CZ-FP3 (shoreline-oil-coastal zone-floodplain). The land to the east of the proposed project site is zoned Downtown Specific Plan District 1a (commercial serving visitors), Downtown Specific Plan District 2 (high density residential) and Townlot Specific Plan Area One - section A (medium density residential). The Bolsa Chica State Park is located west of the proposed project site. Zoning maps for the area surrounding the Strip are presented in Appendix A. (Text continued on page 1-11)


PROPOSED
DEWPOINT
CONTROL/
SULFEROX
UNITS
PROPOSED
COMPRESSOR
BUILDING

Figure 1-2c

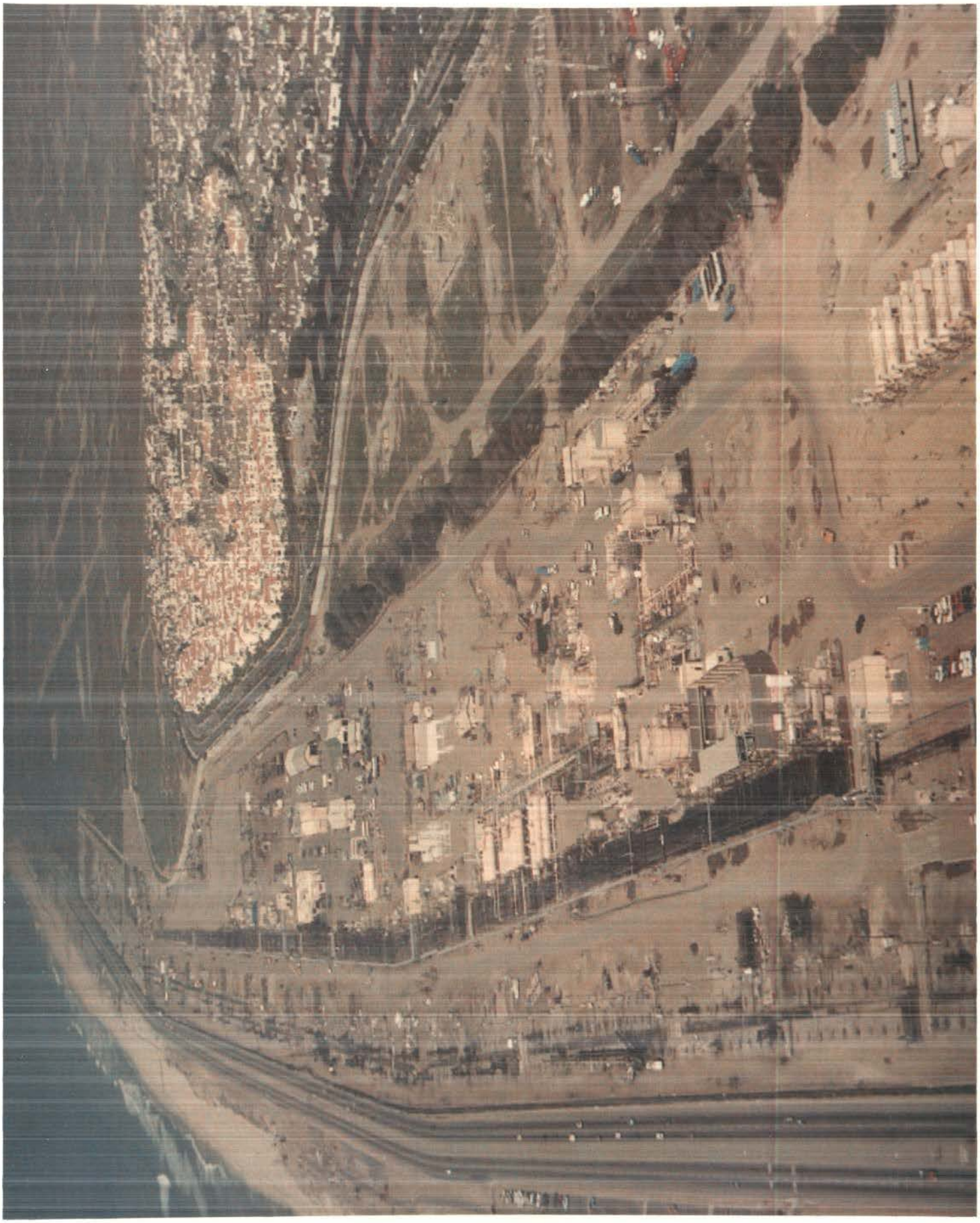


Figure 1-2d

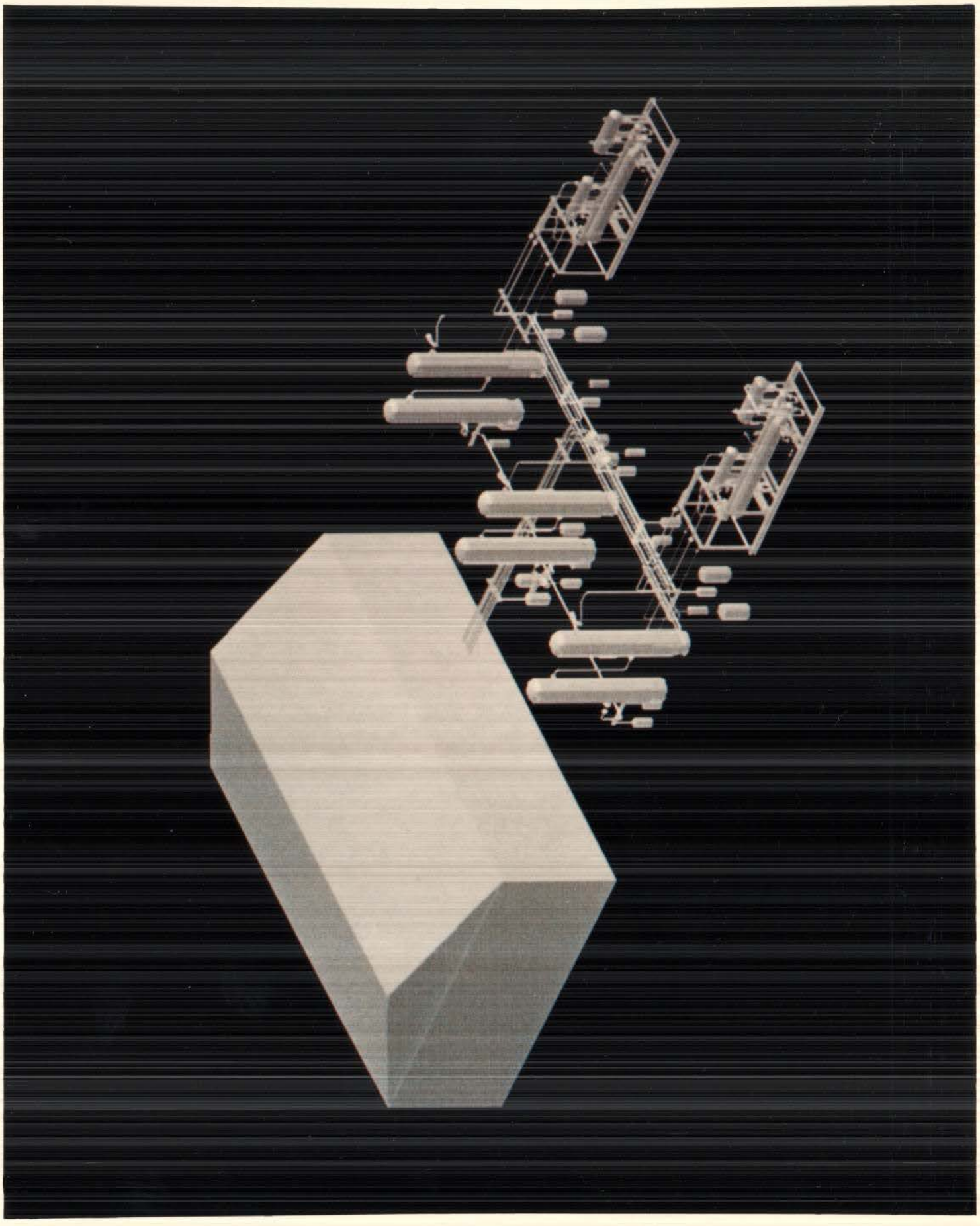


Figure 1-2e

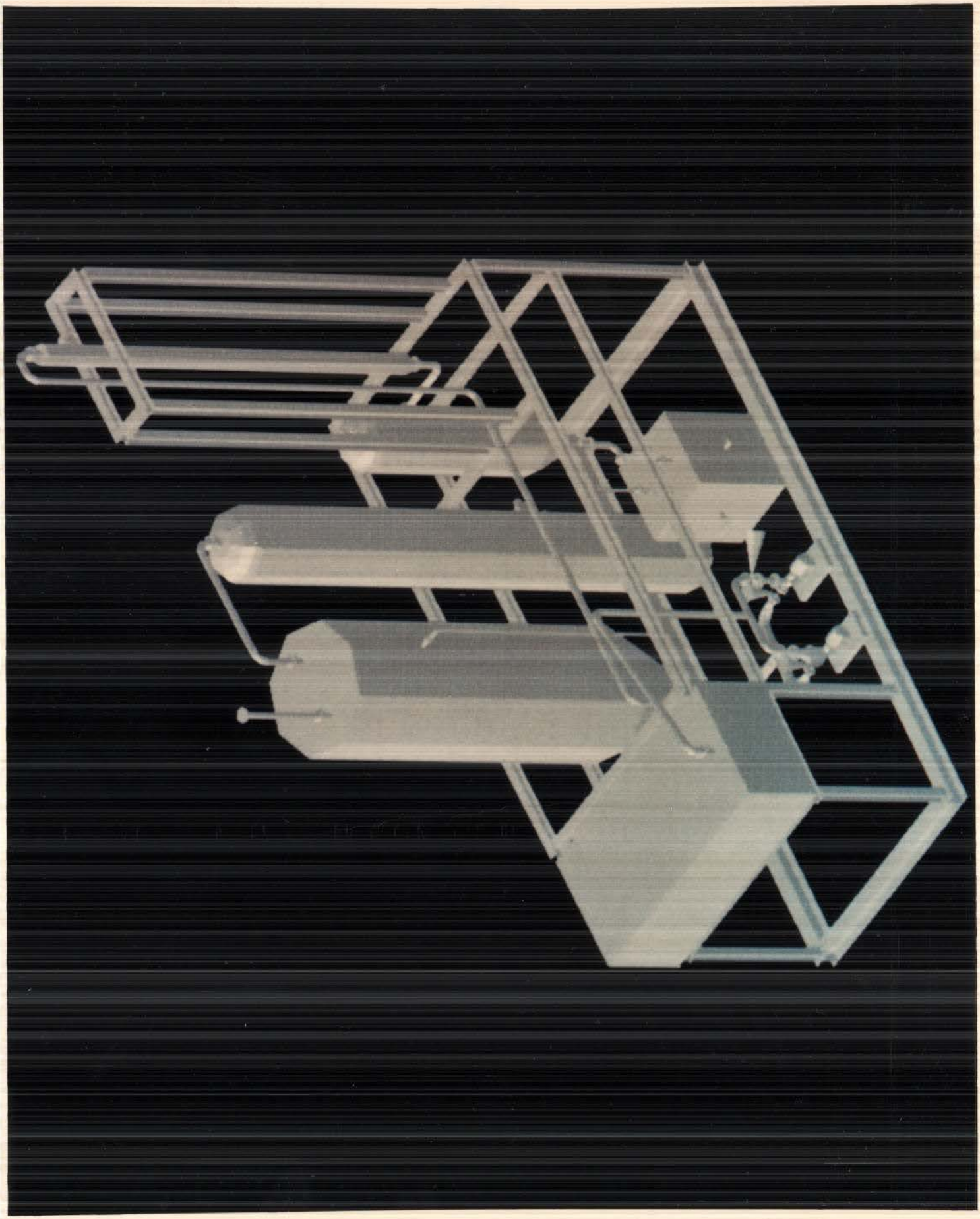
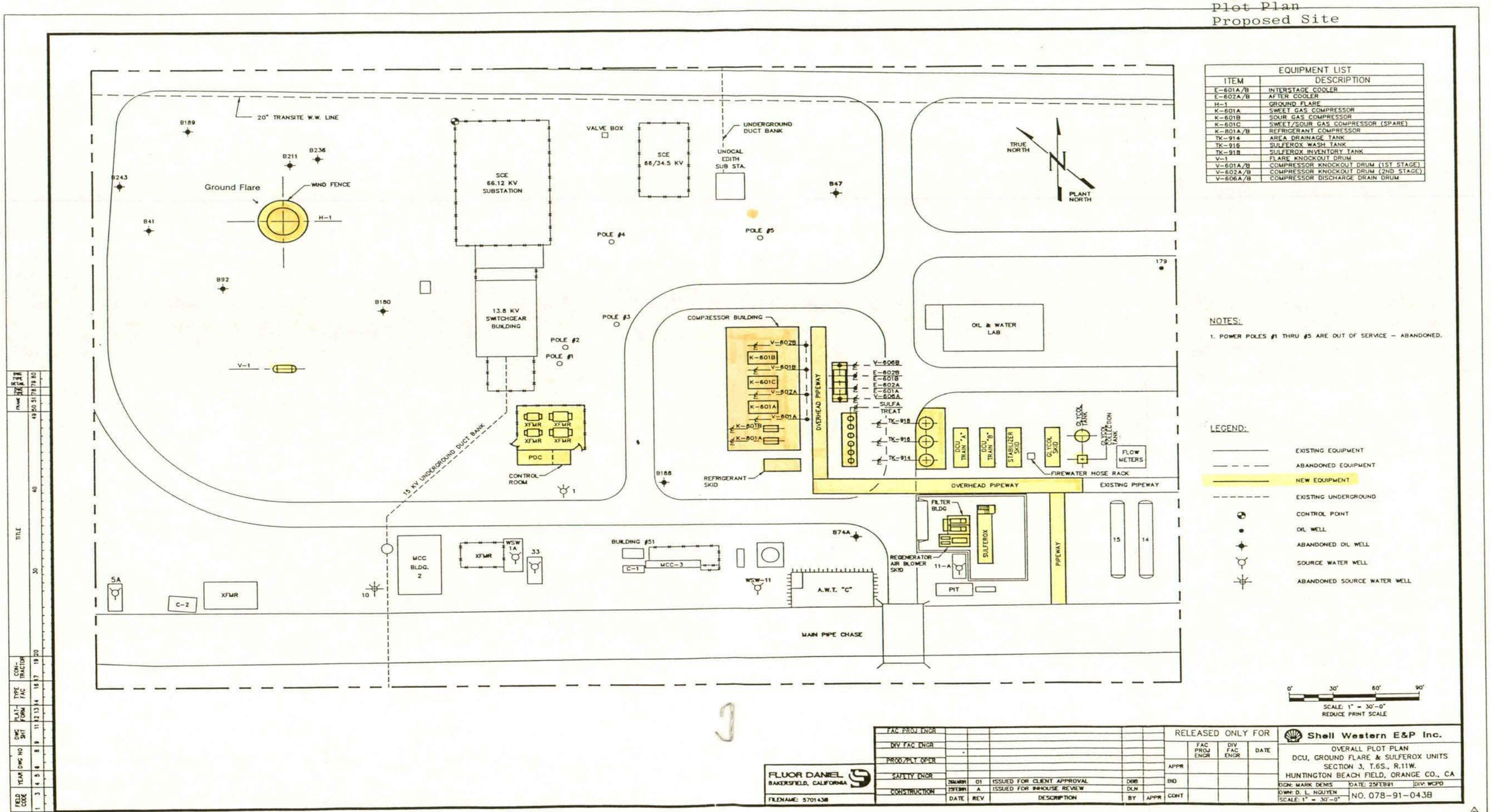


Figure 1-3
Plot Plan
Proposed Site



EQUIPMENT LIST	
ITEM	DESCRIPTION
E-601A/B	INTERSTAGE COOLER
E-602A/B	AFTER COOLER
H-1	GROUND FLARE
K-601A	SWEET GAS COMPRESSOR
K-601B	SOUR GAS COMPRESSOR
K-601C	SWEET/SOUR GAS COMPRESSOR (SPARE)
K-801A/B	REFRIGERANT COMPRESSOR
TK-914	AREA DRAINAGE TANK
TK-916	SULFEROX WASH TANK
TK-918	SULFEROX INVENTORY TANK
V-1	FLARE KNOCKOUT DRUM
V-601A/B	COMPRESSOR KNOCKOUT DRUM (1ST STAGE)
V-602A/B	COMPRESSOR KNOCKOUT DRUM (2ND STAGE)
V-606A/B	COMPRESSOR DISCHARGE DRAIN DRUM

NOTES:

1. POWER POLES #1 THRU #5 ARE OUT OF SERVICE – ABANDONED.

LEGEND:

- EXISTING EQUIPMENT
- ABANDONED EQUIPMENT
- NEW EQUIPMENT
- EXISTING UNDERGROUND
- CONTROL POINT
- OIL WELL
- ABANDONED OIL WELL
- SOURCE WATER WELL
- ABANDONED SOURCE WATER WELL

0' 30' 60' 90'
SCALE: 1" = 30'-0"
REDUCE PRINT SCALE

FIELD CODE | YEAR | DWG NO | DWG SHT | PLAT-FORM | TYPE FAC | CON-TRACTOR | TITLE

FLUOR DANIEL
BAKERSFIELD, CALIFORNIA
FILENAME: 5701438

	DATE	REV	DESCRIPTION	BY	APPR
FAC PROJ ENGR					
DIV FAC ENGR					
PROD/PLT OPER					
SAFETY ENGR	26MAR91	01	ISSUED FOR CLIENT APPROVAL	DBB	
CONSTRUCTION	25FEB91	A	ISSUED FOR INHOUSE REVIEW	DLN	

RELEASED ONLY FOR

	FAC PROJ ENGR	DIV FAC ENGR	DATE
APPR			
BID			
CONT			

Shell Western E&P Inc.

OVERALL PLOT PLAN
DCU, GROUND FLARE & SULFEROX UNITS
SECTION 3, T.6S., R.11W.
HUNTINGTON BEACH FIELD, ORANGE CO., CA

DSGN: MARK DEMIS | DATE: 25FEB91 | DIV: WCPO
DWN: D. L. NGUYEN | SCALE: 1" = 30'-0" | NO. 078-91-0438

The SWEPI Huntington Beach facility has always strived to be a good neighbor to the surrounding areas. SWEPI donates much time and financial resources to the Amigos de Bolsa Chica for the conservation of the Bolsa Chica wetlands, and other community groups including the Boy Scouts, Huntington Beach Library, Huntington Beach Pier Restoration, Huntington Beach Youth Shelter, Boys & Girls Club and the Huntington Beach Chamber of Commerce. A complete listing is provided in Table 1-1. Shell Oil & SWEPI plan to donate between $35,000 and $40,000 to Huntington Beach community groups this year.

*1.4 **FOR RESIDENTIAL PROJECTS**: (IF PROJECT IS COMMERCIAL, INDUSTRIAL, OR INSTITUTIONAL SKIP TO ITEM 15 .)*

9-14. N/A

*1.5 **FOR COMMERCIAL, INDUSTRIAL OR INSTITUTIONAL PROJECTS**: (IF PROJECT IS RESIDENTIAL SKIP TO ITEM 28 .)*

15. Describe the types of uses and/or activities proposed:

The proposed project will replace Gas Plant #11 located near the Bolsa Chica wetlands with a new gas plant located within the existing SWEPI oil production facilities along the Pacific Coast Highway. Gas Plant #11 currently processes approximately 6 million standard cubic feet per day (MMSCFD) of natural gas, but is rated to process 42 MMSCFD. The proposed gas plant is rated and will process 6 MMSCFD, which represents a 36 MMSCFD reduction in the rated capacity of the gas plant operations. The reduction in capacity corresponds to less equipment and a smaller gas plant. The proposed gas plant will cost approximately $10 million compared with a cost of $70 million to completely replace the larger Gas Plant #11.

Table 1-1

Huntington Beach Community Groups and Activities Supported by Shell Oil

American Red Cross

Amigos de Bolsa Chica

API - Long Beach Chapter

Boy Scouts - Search & Rescue

Boys & Girls Club of Huntington Valley

Coastal Cleanup Week

Golden West College - Petroleum Technology

Huntington Beach 4th of July Parade

Huntington Beach Art Center

Huntington Beach Chamber of Commerce

Huntington Beach Community Clinic

Huntington Beach Firemen Search & Rescue

Huntington Beach - Education Support

Huntington Beach High School Boosters

Huntington Beach Library Patrons

Huntington Beach Pier Restoration

Huntington Beach Surf Lifesaving Association

Huntington Beach Surf Museum

Huntington Beach Youth Shelter

Orange County Petroleum Association

Pyles Boys Camp - Huntington Beach Barbecue

United Way of Orange County

Various Youth Sports

West Orange County YMCA

The gas feed can be classified into two major streams; the North Bolsa Area (NBA) gas (from reservoirs north of the Newport-Inglewood Fault) and the South Bolsa Area (SBA) gas (from reservoirs south of the fault). The SBA gas also includes gas from the SWEPI offshore Emmy platform, the existing casing vapor collection systems and the existing tank vapor recovery unit. The NBA and the SBA gas streams are approximately 3 MMSCFD each. The NBA gas meets pipeline specifications for carbon dioxide (CO_2) and is relatively free from sulfur compounds. The NBA gas is treated and sold to Southern California Gas Company (SoCal) which markets the gas. The SBA gas does not meet pipeline specifications because of high CO_2 concentrations. It also has higher concentrations of sulfur compounds, approximately 8000 ppm of hydrogen sulfide (H_2S). The SBA gas is treated and sent to Southern California Edison (SCE) for use in the Huntington Beach power plant.

The NBA gas and the SBA gas are currently compressed and treated in a dew point control unit to remove condensables. The H_2S from the SBA gas is removed with a Stretford Unit, which uses vanadium as a catalyst. The small amount of H_2S remaining in the NBA gas is removed with an iron sponge. Approximately 50,000 gallons (143 tons) of produced natural gasoline and 30,000 gallons (64 tons) of propane are stored at Gas Plant #11.

The proposed gas plant will consist of gas compression, dehydration and dewpoint control. The H_2S from the SBA gas will be removed with a SulFerox® unit, using an iron compound (non-hazardous material) to remove the H_2S. Both gases are sent through a Sulfa Treat® unit to reduce the H_2S content to meet required specifications. Auxiliary facilities include propane refrigeration, glycol regeneration and an emergency ground flare. Produced gasoline will not be stored at the new gas plant. Approximately 300 gallons (0.64 tons) of propane will be stored at the new gas plant. This represents a 99% reduction in the amount of propane stored.

Gas Compression

Three identical natural gas compressors will be utilized; a one hundred percent train for each gas stream and a one hundred percent common spare. Each compressor will be a two-stage electric drive reciprocating machine with interstage cooling and condensate separators. The spare machine will be connected to the support equipment of either

normal operating compressor as required. Hydrocarbon condensate from each compression train is collected and sent to the on-site oil/water treating facility.

Desulfurization

Desulfurization of the SBA gas will be provided by a SulFerox® unit located at the intermediate stage of the gas compression train. The gas stream is contacted with an iron chelate - water solution to remove the H_2S. The hydrocarbons in the spent solution will be evaporated and recycled through the existing tank vapor recovery system. The existing Stretford Unit will be retained as a spare.

Sulfa Treat®

The NBA and SBA gas streams will be treated separately with two Sulfa Treat® systems operating in series to reduce the H_2S content further to meet the required pipeline specifications. The Sulfa Treat® system uses an iron compound to selectively remove H_2S from the gas. The process is non-regenerative and the spent material will be disposed of as non-hazardous waste. There will be three Sulfa Treat® trains, one for each inlet gas stream and one spare train.

Dewpoint Control

The gas streams will be processed through separate dew point control units after the second stage of compression and the Sulfa Treat® train, to meet the required pipeline dewpoint specification of 45°F. The gas is treated with ethylene glycol to remove the remaining water and cooled in the propane chillers to condense the heavier components. The clean NBA gas is sent to SoCal and the clean SBA gas is sent to SCE. The ethylene glycol is regenerated and the hydrocarbon liquid is stabilized to generate natural gasoline which is mixed with the crude oil. The off-gas from the stabilizer is mixed with the SBA gas prior to distribution.

Ground Flare

An emergency ground flare will be utilized to destroy any vent gas that is not recycled. The flare will also be designed to burn the total amount of produced gas, up to 6 MMSCFD, that may be vented in an emergency. The flare will be smokeless and have a hidden flame.

16. *Size of each proposed building: (in gross square feet):*

Three new buildings will be constructed as part of the proposed project. The size of these buildings is:

Building	Area (Square Feet)
Control Room	300
SulFerox® Enclosure	400
Compressor Building	4500

17. *Number of buildings proposed:*

Three new buildings will be constructed; the control room, the SulFerox® enclosure and the compressor building.

18. *Maximum building height and number of stories:*

The building heights and number of stories are:

Building	Height (feet)	Number of Stories
Control Room	10-12	1
SulFerox® Enclosure	10-15	1
Compressor Building	25	1

19. *Amount and type of off-street parking proposed:*

Off-street parking will not be required for the proposed project. The parking requirements will be met by existing parking lots within the site boundaries.

20. *Projected number of employees _____ total, _____ shift:*

The SWEPI Huntington Beach facility currently employs 77 people with an additional 10 to 15 support personnel from the SWEPI Bakersfield office. Approximately 90 contract laborers not directly employed by SWEPI also work at the site. The operations at the proposed facility will not increase or decrease the current number of employees. The number of workers on site could increase by approximately 65 persons during the construction phase.

Most of the personnel work dayshift (8 hrs/day). The gas plant has 1 person per shift, three shifts per day. The tank farm and field personnel operate on 2-12 hour shifts, with 4 persons per shift.

21. *Maximum occupancy of building(s):*

The control room, the SulFerox® enclosure and the compressor building will not normally be occupied. An operator will be entering these buildings periodically during each shift.

22. *What will be the days and hours of operation:*

The proposed plant will operate on the same schedule as Gas Plant #11; twenty-four hours per day, seven days per week.

23. *Describe the proposed scheduling or phasing of the project:*

The overall schedule for the project will be approximately four years. Preliminary engineering will take approximately six months. Environmental documentation and permitting for the project are expected to take twenty months. Detailed engineering and procurement start after the permitting has been completed and will be take approximately 9 months. The construction will take approximately seven months after detailed engineering is completed. The new gas plant is expected to start up in 1994. Gas Plant #11 will be demolished after the new plant is operational.

24. *For restaurants, how many seats will there be:* N/A

If outdoor seating is proposed, amount of outdoor square footage _____.

25. *What percentage of the project site will be covered by:*
Paving 0 %; *Building* ~10 %; *Landscaping* 0 %.

26. *What is the distance of the project from the nearest school, hospital, convalescent hospital, park or recreation facility:*

The distance of the Gas Plant #11 site and the proposed project site to the nearest school, hospital, convalescent hospital and park or recreation facility is given below.

	Existing Gas Plant #11 Site	Proposed Project Site
Smith Elementary School/ Dwyer Elementary School	1.4 miles	1.0 miles
Pacifica Hospital	1.7 miles	2.0 miles
Huntington Beach Convalescent Hospital	1.7 miles	2.0 miles
Bolsa Chica State Beach	0.6 miles	0.1 mile
Bolsa Chica Wetlands	adjacent	1 mile

27. *Does the project involve the handling, manufacture, storage, transport or disposal of any toxic, flammable or hazardous substance? If so, please describe and indicate what safety measures have been incorporated into the project:*

The proposed gas plant will handle basically the same materials as Gas Plant #11. These materials are listed in Table 1-2. Further detail on these materials is provided in Appendix B.

Table 1-2

Hazardous Materials

Material	Use or Source	Comments
Natural Gas	Produced at site	Flammable
Natural Gasoline	Produced at site	Flammable
Propane	Refrigeration	Flammable
Hydrogen Sulfide	Trace amounts in product natural gas and NBA gas, approximately 8000 ppm in SBA gas	Toxic/Flammable
Benzene	Trace amounts in product natural gas, NBA gas and SBA gas	Carcinogen/Flammable
Ethylene Glycol	Removal of water from natural gas	Moderately Toxic
Spent Lube Oils	Removed from compressor pumps and other pieces of equipment	Potential heavy metal contamination
Ammonium Hydroxide	pH buffer - SulFerox® unit	Corrosive
Decanol	Surfactant	Flammable
Ammonium Bisulfite	Inhibitor	Corrosive
Ammonium Thiosulfate	Additive	Reactive
Pluronic	Surfactant	Moderately Toxic/Reactive

SWEPI has developed internal guidelines for the management of hazardous materials that will continued to be followed at the new gas plant. The area operation foreman is responsible to ensure that all chemical containers being used and received for use are labeled appropriately. The containers are checked to ensure they are in good condition and approved for use for the specified chemical. The foreman reviews incoming Material Safety Data Sheets (MSDS's) on new chemicals and forwards the information to any affected employees and to the unit clerk for input into a computerized system.

Any hazardous waste is collected on-site in approved containers which are labeled and dated. The material is stored for less than 90 days and transported to a RCRA approved treatment/disposal facility by a qualified transporter. An approved manifest is attached with all shipments. The new facility will generate less hazardous waste because of the different sulfur removal system.

The operations foreman is also responsible for employee training. Employees are trained on the proper handling of hazardous materials and also on the reading of the MSDS's. Annual retraining is conducted for all affected personnel. Additional training is required before personnel begin non-routine work involving hazardous materials.

Care has been taken in the design of the new facility to minimize risk. Potential emissions are controlled by installing Best Available Control Technology (BACT) on emission sources. Pressure relief valves and vent systems will be routed to the ground flare to prevent the direct release of natural gas and H_2S to the environment.

Natural gasoline storage is 50,000 gallons (143 tons) at the Gas Plant #11 site and will be eliminated in the proposed gas plant design. The amount of propane storage will be reduced from 30,000 gallons (64 tons) at the Gas Plant #11 site to 300 gallons (0.64 tons) at the proposed gas plant site.

A firewater system, fire protection system including ultraviolet [UV] and infrared [IR] detection, and combustible gas and H_2S detection systems will be installed at the new gas processing plant. Hydrogen sulfide detectors are already in place around the perimeter wall to allow plant operators to constantly monitor the area. A proposed Fire Protection Plan has been submitted to the City of Huntington Beach Fire Department.

SWEPI will continue to work closely with the City of Huntington Beach to adopt a final Plan that is suitable to meet the needs of the area. Details of the proposed Plan are given in Appendix C.

Safety showers, eyewash stations and self-contained breathing apparatus will be provided near the SulFerox® unit area for the safety of employees and emergency response personnel. Routine inspections will be performed to ensure personnel are qualified for the job and that equipment is maintained in top condition. The Emergency Response Plan and Business Plans for the existing Strip facility will be updated to account for the new gas plant.

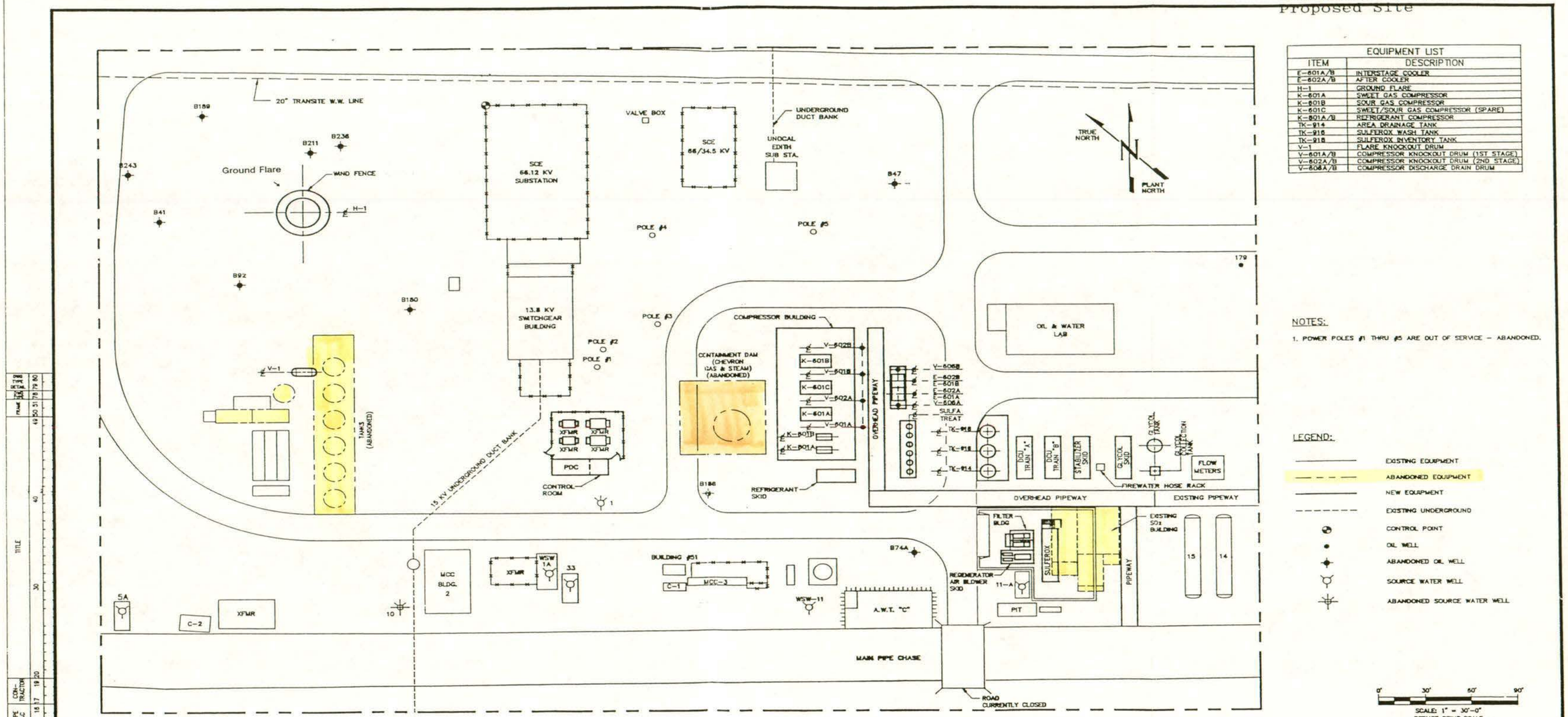
1.6 ENVIRONMENTAL IMPACTS:

28. If improvements are to be demolished by the project, please outline them on the site plan and describe them briefly:

The empty cinder block building and seven abandoned tanks on the proposed project site will be demolished during construction activities. The plot plan of the proposed gas plant site with the abandoned tanks and building is provided in Figure 1-4.

Gas Plant #11 will be demolished after the new gas plant is operational. A listing of the main items to be removed from this area is provided in Table 1-3. A plot plan of Gas Plant #11 is provided in Figure 1-5. A Closure Plan for Gas Plant #11 will be developed and submitted to the appropriate agencies for approval. The Closure Plan will provide a description of the site and a discussion of the facilities history; the proposed field investigation to demonstrate a clean closure; description of the number, location, depth and sampling frequency of the soil borings and ground water monitoring wells; the analytical methods to be performed on samples; and an outline of the Closure Report that will be submitted to the appropriate agencies. A proposal for the closure of the Gas Plant #11 site is provided in Appendix D.

Figure 1-4
Plot Plan
Abandoned Equipment on
Proposed Site



EQUIPMENT LIST	
ITEM	DESCRIPTION
E-601A/B	INTERSTAGE COOLER
E-602A/B	AFTER COOLER
H-1	GROUND FLARE
K-601A	SWEET GAS COMPRESSOR
K-601B	SOUR GAS COMPRESSOR
K-601C	SWEET/SOUR GAS COMPRESSOR (SPARE)
K-601A/B	REFRIGERANT COMPRESSOR
TK-914	AREA DRAINAGE TANK
TK-916	SULFEROX WASH TANK
TK-918	SULFEROX INVENTORY TANK
V-1	FLARE KNOCKOUT DRUM
V-601A/B	COMPRESSOR KNOCKOUT DRUM (1ST STAGE)
V-602A/B	COMPRESSOR KNOCKOUT DRUM (2ND STAGE)
V-606A/B	COMPRESSOR DISCHARGE DRAIN DRUM

NOTES:

1. POWER POLES #1 THRU #5 ARE OUT OF SERVICE – ABANDONED.

LEGEND:

- EXISTING EQUIPMENT
- ABANDONED EQUIPMENT
- NEW EQUIPMENT
- EXISTING UNDERGROUND
- CONTROL POINT
- OIL WELL
- ABANDONED OIL WELL
- SOURCE WATER WELL
- ABANDONED SOURCE WATER WELL

0' 30' 60' 90'
SCALE: 1" = 30'-0"
REDUCE PRINT SCALE

THIS DRAWING FOR PERMITTING ONLY

FIELD CODE	YEAR	DWG NO	DWG SHT	PLAT-FORM	TYPE FAC	CON-TRACTOR
1 3	4 5 6	8 9	11 12 13 14	15 17	18 20	

TITLE 30 40 49 50 51 78 79 80

FLUOR DANIEL
BAKERSFIELD, CALIFORNIA
FILENAME: 570173A

	DATE	REV	DESCRIPTION	BY	APPR
FAC PROJ ENGR					
DIV FAC ENGR					
PROD/PLT OPER					
SAFETY ENGR					
CONSTRUCTION	12MAY91	A	ISSUED FOR INHOUSE REVIEW	EGD	

RELEASED ONLY FOR

	FAC PROJ ENGR	DIV FAC ENGR	DATE
APPR			
BID			
CONT			

Shell Western E&P Inc.

PROPOSED OVERALL PLOT PLAN
DCU, GROUND FLARE & SULFEROX UNITS
SECTION 3, T.6S., R.11W.
HUNTINGTON BEACH FIELD, ORANGE CO., CA

DGN: M. DENES DATE: 12MAY91 DIV: WCPD
DWN: B. L. NGUYEN
SCALE: 1" = 30'-0" NO. 078-91-073A

Table 1-3
Equipment to be Removed

Gas Plant #11 - Removed approximately six months after new gas plant startup.

Wet Gas Intake Scrubber, 8'-6" Dia. x 25'-0" H.

First Stage Discharge Scrubber, 4'-0" Dia. x 6'-6" H.

First Stage Cooler, Air Cooled Type, With Two 7 ½-H.P. Air Blowers.

First Stage Cooler, Shell-And-Tube Type, Refrigerated, 2'-6" Dia. x 20'-0" L. With Disengaging Drum, 2'-0" Dia. x 15'-0" H. (Stand-By Unit).

First Stage Separator, 4'-6" Dia. x 11'-0" H., With A 3-H.P. Gasoline Pump.

Second Stage Discharge Scrubber, 3'-6" Dia. x 4'-0" H.

Second Stage Cooler, Air-X-Changer, Model No. 84-2-H, With Two 10-H.P. Air Blowers.

Second Stage Separator (V3-V4), 4'-0" Dia. x 24'-4" L.

Dry Gas/Wet Gas Exchanger (E-5), Tri-Ex Thermal, Gas-Gas Type Gem, Size 15-360.

Dry Gas/Wet Gas Exchanger (E-6), 1'-6" Dia. x 15'-0" L.

Iron Sponge (For H2S Control), 4'-0" Dia. x 22'-6" H.

Wet Gas Chiller (E-7), Shell-And-Tube Type, 3'-6" Dia. x 20'-0" L.

Raw Product Separator (V-5), 4'-6" Dia. x 15'-0" L., With Two 3-H.P. Pumps.

De-Ethanizer Column, 2'-9" Dia. x 40'-0" H., Vented To First Stage Separator.

De-Ethanizer Reboiler, Tri-Ex Thermal, Size 17/29-240, Type Akt.

De-Propanizer Column, L. A. Boiler Works, 2'-8"/2'-4" Dia. x 46'-5" H., Packed Column, With A 1-H.P. Feed Pump And A 2-H.P. Spare Feed Pump.

De-Propanizer Reboiler, Hugh Davis Co., 2'-6" Dia. x 10'-0" L.

De-Propanizer Reflux Drum, L. A. Boiler Works, 2'-0" Dia. x 8'-0" H., With A 1½-H.P. Reflux Pump.

Glycol Settling Tank, 4'-0" Dia. x 15'-0" L.

Glycol Regenerator, Rheem Superior, Model No. 60-300, 1'-6" Dia. x 20'-0" L., With Two ¾-H.P. Pumps.

Glycol Regenerator, McFarland, Model No. MAC-24.

Table 1-3 (Continued)
Equipment to be Removed

Cooler, Smitheco, Air-Cooled Type, With A Propane Refrigerant Condenser Section, A Propane Column Reflux Condenser Section And Natural Gasoline Product Cooler Section, With Two 15-H.P. Air Blowers.

Two Propane Dehydrators, Each 1'-6" Dia. x 20'-0" H.

Propane Make-Up Pump, Centrifugal, Mechanical Seal, With 2 H.P. Motor.

Glycol Settling Tank, 3'-0" Dia. x 10'-0" L.

Glycol Regenerator, With A Heat Exchanger, Three Stage Each 1'-9" Dia. x 6'-9" L.

Three Propane Refrigerant Scrubbers, Two (V-7 & V-8) 2'-0" Dia. x 10'-6" H. Each And One (V-10) 2'-0" Dia. x 7'-6" H.

Propane Refrigerant Surge Tank, 5' Dia. x 15' H., 2280 Gallons Capacity.

Two Steam Boilers, Each 350 H.P. Gas-Fired Only (One Stand-By).

Low Temperature Separator (Lts), With 2'-0" Dia. x 8'-0" L. Inlet Scrubber, Gas/Gas Exchanger 1'-6" Dia. x 27'-0" L., Gas Chiller 2'-3" Dia. x 23'-3" L., Glycol Separator 2'-6" Dia. x 8'-0" L., And Two Stabilizer Feed Pumps, Each 1 ½ H.P. (One Stand-By).

Wet Gas Scrubber, 3'-6" Dia. x 13'-4" H.

First Stage Separator, 2'-6" Dia. x 10'-3" H.

Two Coolers, First Stage/Second Stage, Air-X-Changer Model No. 84AH With A 7 ½-H.P. Air Blower Each.

Ammonia Tank, 8'-0" Dia. x 44'-4" L.

Slug Catcher, 9'-0" Dia. x 66'-0" L.

VSH Scrubber, 6' Dia. x 12' H.

VW Scrubber, 2'-6" Dia. x 10' H.

Propane Oil Separator, 1'-3" Dia. x 5'-0" H.

Fuel Scrubber For Electric Generators, 1'-6" Dia. x 6'-0" H.

Two Glycol Charcoal Filters, Each 1' Dia. x 4' H.

Glycol Storage Tank, 9' Dia. x 15' H.

Glycol Make-Up Tank, 6' Dia. x 7'-6" H.

Table 1-3 (Continued)
Equipment to be Removed

High Pressure Residue Scrubber, 4' Dia. x 10' H.

Natural Gasoline Make Water Glycol Separator, 3' Dia. x 4' H.

Two Natural Gasoline Shipping Pumps, Each 20 H.P.

Natural Gasoline Shipping Pump, 5 H.P.

Two Waste Oil Tanks, 7'-6" Dia. x 31'-8" L. Each.

Waste Water Separator, 7' Dia. x 16' H.

Two Concrete Waste Water Receivers, 6' Dia. x 6' Deep Each.

Fiberglass Skim Tank, 12' Dia. x 7' H.

Propane Rundown Pressure Tank, 30,000 Gallons, 9'-6" Dia. x 50'-0" L.

Two Natural Gasoline Rundown Tanks, Each 18,000 Gallons, 9'-0" Dia. x 41'-8" L.

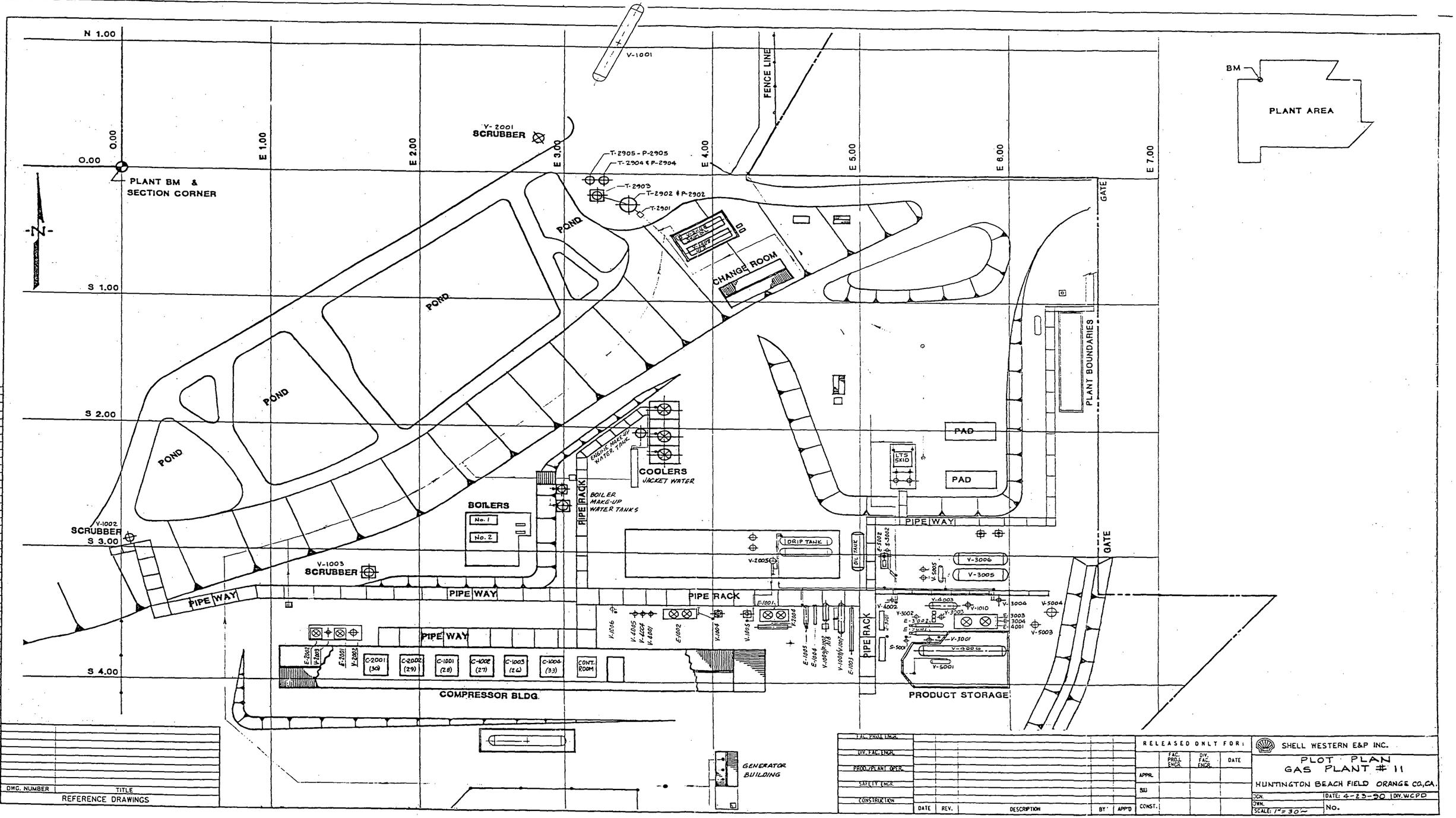
Two H2S Sulfa Check Vessels (Stand-By), 5'-0" Dia. x 9'-6" H.

Existing Improvements - removed prior to gas plant construction

- Seven tanks - out of service
- One cinder block building - empty

Compressor Drivers

Four (4) 600 H.P. Natural gas-fired, lean burn internal combustion engines, driving first and second stages of compressors 28, 29, 30 & 33.



DWG. NUMBER	TITLE
	REFERENCE DRAWINGS

FAC. PROJ. ENGR.			
DIV. FAC. ENGR.			
PROD./PLANT OPER.			
SAFETY ENGR.			
CONSTRUCTION			

DATE	REV.	DESCRIPTION	BY	APP'D

RELEASED ONLY FOR:

	FAC. PROJ. ENGR.	DIV. FAC. ENGR.	DATE
APPR.			
BID			
CONST.			

SHELL WESTERN E&P INC.

PLOT PLAN
GAS PLANT # 11
HUNTINGTON BEACH FIELD ORANGE CO., CA.

DGN. | DATE: 4-23-90 | DIV. WCPD
DWN. | No.
SCALE: 1" = 30'

Figure 1-5

29. *Will the project potentially affect an historic structure or object in any way? If so, please describe:*

The demolition activities are associated only with oil/gas production equipment. The project will not involve the demolition of or affect any historic structures.

30. *List any potential noise sources which could affect the site (i.e., roadways, freeways, industrial projects) and give approximate distances:*

The project site is zoned for industrial use. Potential noise sources include Pacific Coast Highway and Goldenwest Street which are adjacent to the Strip.

31. *Describe any noise that will be produced by the project during construction and after project is completed:*

Noise levels generated by new equipment in the proposed gas plant will be less that noise levels generated by equipment currently operating in Gas Plant #11. The main noise sources in Gas Plant #11, the internal combustion engine-driven compressors, will be replaced with quieter electric motor-driven compressors. The expected reductions in noise levels for these units are presented below:

Unit	Noise Levels, dBA		
	Existing	Proposed	Change
Compressors & Drivers @ 3 ft.	90 to 93	85 to 88	-5
Compressors & Drivers @ 100 ft.	65 to 70	60 to 65	-5

The following changes in design between the new and existing gas plants will also provide a reduction in noise level impacts:

- The new compressors will be located further from residences than the existing compressors.

- Fewer fans (air-cooled heat exchangers) will be installed in the new plant than are currently used in Gas Plant #11.

- No internal combustion engines will be used as fan drivers in the new plant. One set of fans in Gas Plant #11 is engine driven.

- Fewer control valves, a potential noise source, will be installed in the new plant than are currently used in Gas Plant #11.

- No hydrocarbon streams will be vented directly to atmosphere in the new plant.

Typical construction related noise will be generated at the project site during the construction phase. Construction noise sources include diesel or gasoline-powered dozers, graders, loaders, backhoes, dump trucks, air compressors and welding machines. Noise levels at 50 feet from the diesel-powered equipment typically range from 80 to 90 dBA. Gasoline-powered equipment noise levels typically range from 75 to 80 dBA at 50 feet. Construction noise is intermittent in nature and only occurs during the construction phase of the project. The use of offsite modular construction (prefabrication) will be maximized to reduce time required for onsite construction. No construction activities will occur on Sunday, a federal holiday or between the hours of 8pm to 7am Monday through Saturday, per the Huntington Beach Municipal Code, Chapter 8.40.

32. *Will the project incorporate outdoor lighting? If so, indicate location and source on the site plan.*

Exterior lighting will be provided for the proposed gas plant for safety, as with most of the existing buildings at the site. The lighting will be shielded to prevent excessive glare offsite. Enough outdoor lighting will be used to allow plant operators to work safely and effectively, approximately 5 foot-candles of light around the process areas and 0.1 foot candles around the buildings for safety. Lights will be located to provide optimum visibility. Exact locations of the lights will be determined during detailed design. The new lighting will not be a significant change from the existing lighting at the facility.

33. *Estimate the average number of daily vehicle trips (ADT) generated by the project site currently; after development:*

Approximately 500 vehicle trips occur currently to and from the Strip daily. The proposed project will not increase or decrease this number. Approximately 5 vehicle trips occur to Gas Plant #11. These trips will cease after the demolition of Gas Plant #11.

34. *List type and quantity of any air pollutants that the project will emit:*

The emissions from Gas Plant #11 and the estimated emissions from the proposed gas plant are presented in Figure 1-6a, 1-6b, 1-6c and 1-6d. The type of emissions will not change from those at Gas Plant #11 and are typical for oil/gas production facilities.

The replacement of Gas Plant #11 with the proposed gas plant will result in a net decrease in emissions of sulfur dioxide (SO_2), nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO_2), volatile organic compounds (VOC), methane (CH_4), particulate matter (PM), ammonia (NH_3) and hydrogen sulfide (H_2S). The percent emission reduction by component is presented in Figure 1-7.

The decrease in air pollutant emissions are a result of the following changes in design between the proposed gas plant and Gas Plant #11:

- The existing Stretford unit will be replaced with a SulFerox® unit which is more efficient in removing H_2S from the SBA gas stream. The Stretford® unit will be retained for backup capability.

- The new gas plant will have fewer sources of fugitive VOC, CH_4 and H_2S emissions. The number of fugitive emission sources are presented below:

Number of Fugitive Emission Sources, Gas Plant #11	Number of Fugitive Emission Sources, Proposed Gas Plant	Reduction
2190	670	1520

Figure 1-6a
Emission Rates - Total

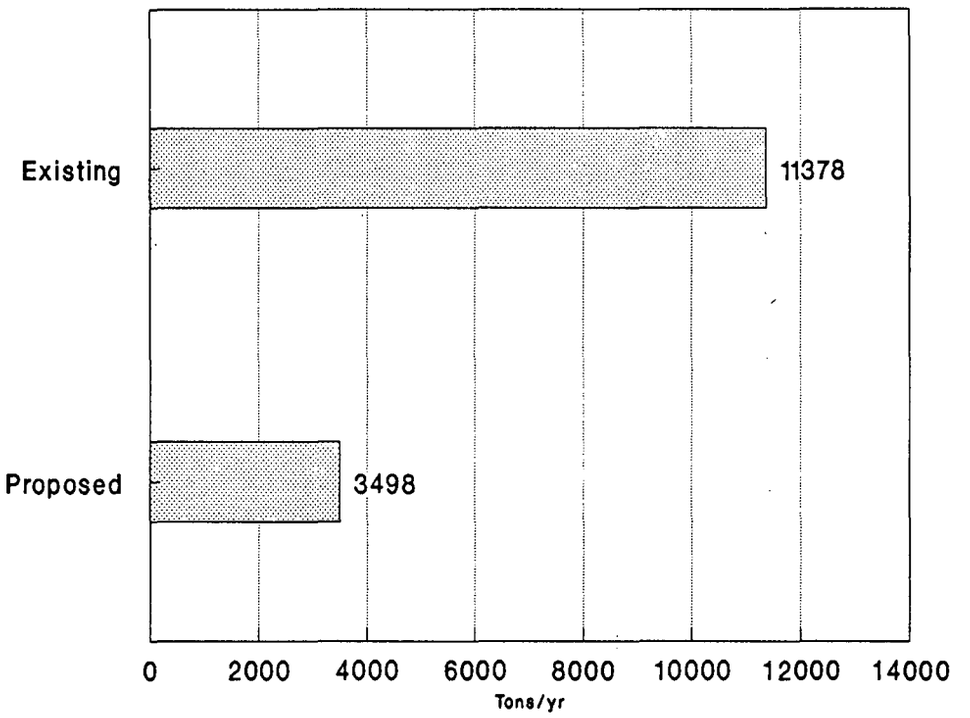


Figure 1-6b
Emission Rates - Existing and Proposed

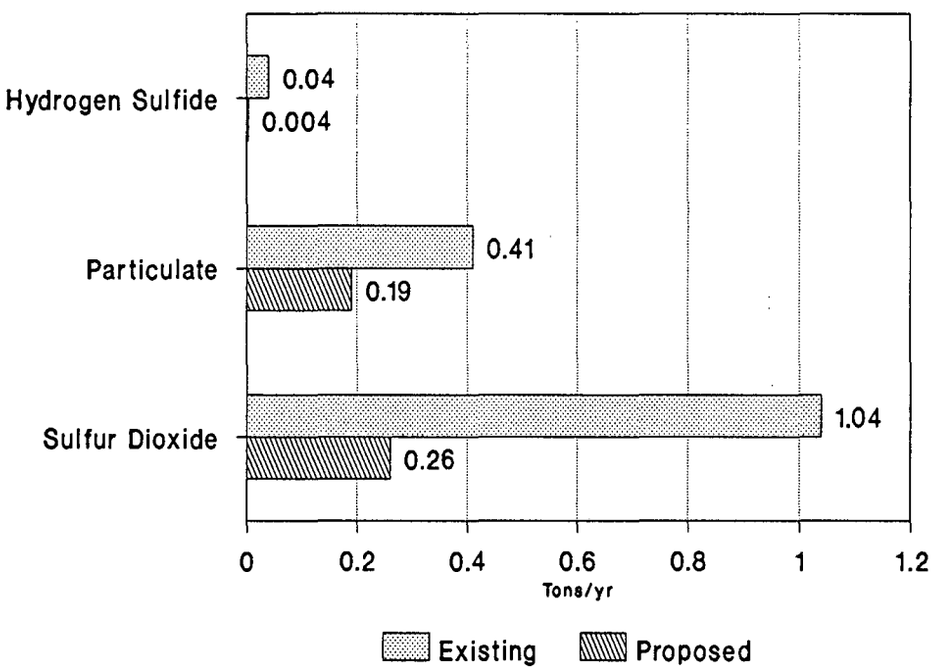


Figure 1-6c
Emission Rates - Existing and Proposed

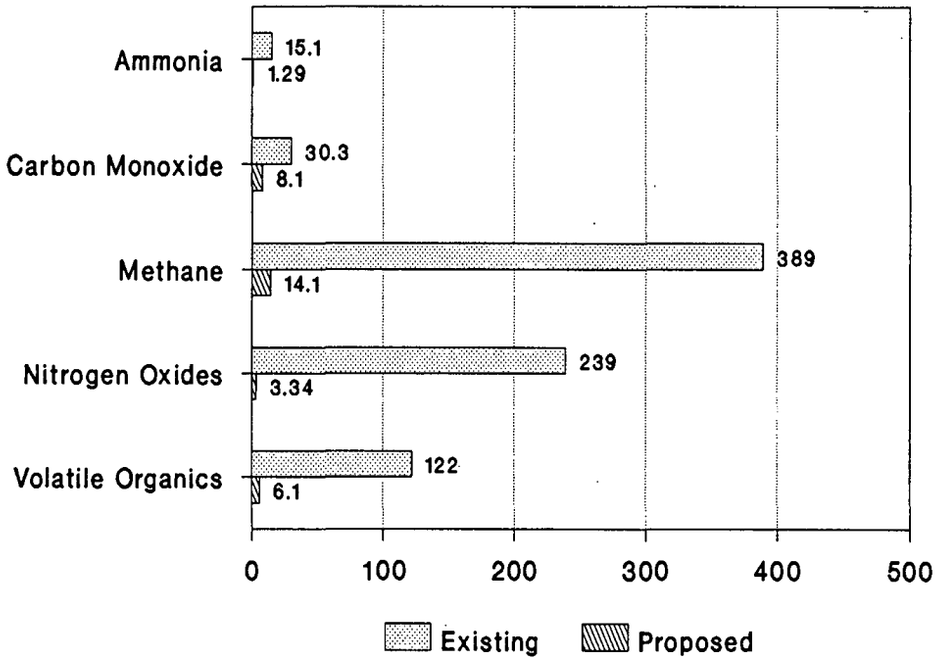


Figure 1-6d
Emission Rates - Existing and Proposed

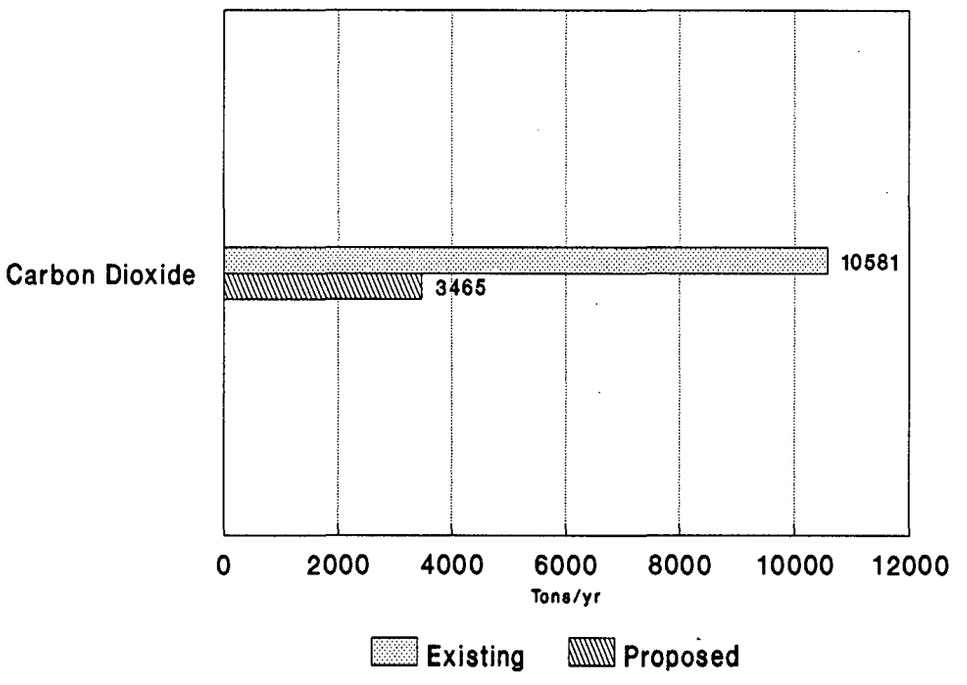
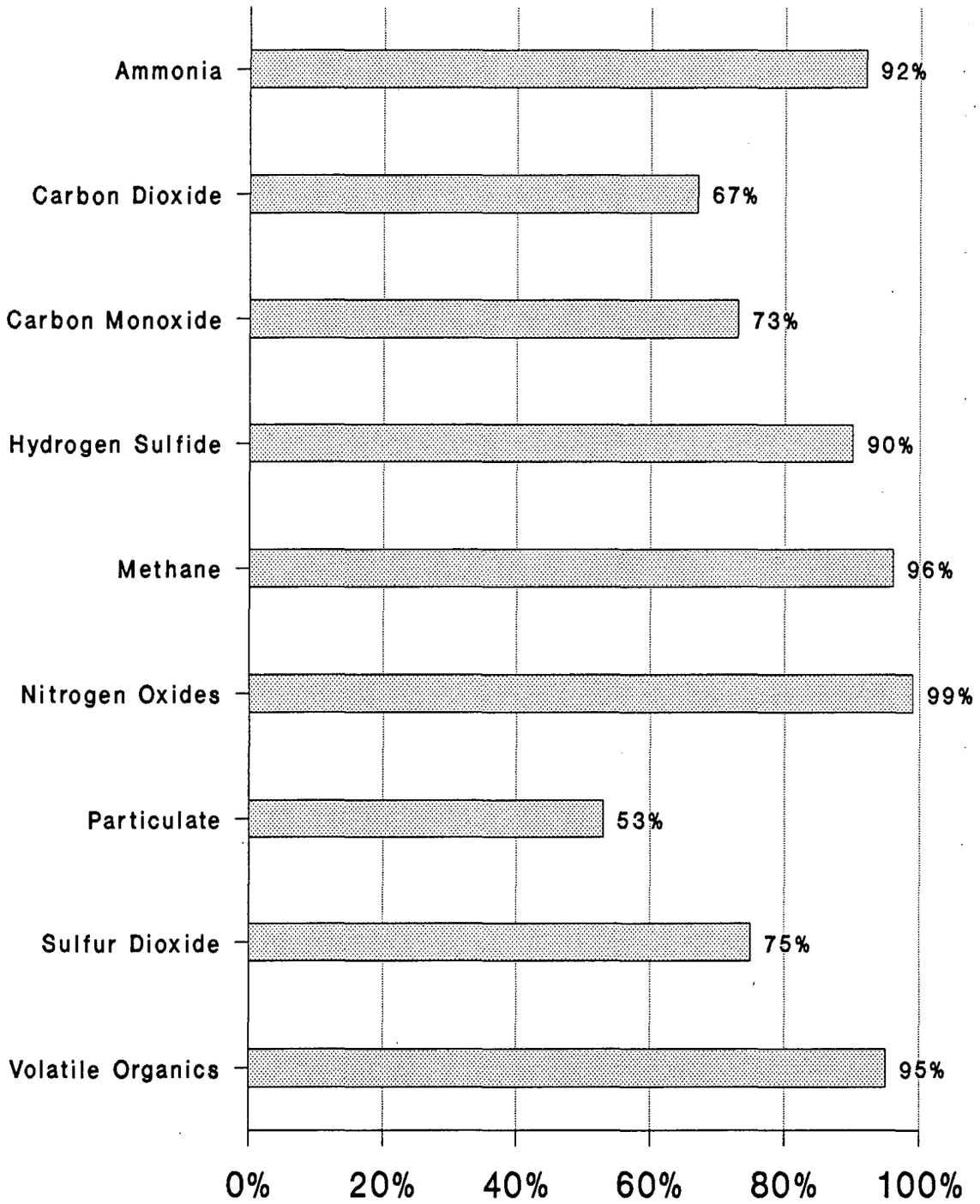


Figure 1-7
Percent Emission Reduction by Component



- No internal combustion engines or boilers will be installed in the new gas plant. These units are the main source of NO_x, SO_2, CO, CO_2 and PM emissions from the existing plant.

- No SCR systems or ammonia storage tanks will be required in the new gas plant since the internal combustion engines will be replaced. These items in Gas Plant #11 were decommissioned in 1990 and are eligible for emission offsets.

35. *Describe the type and source of any odors that may emanate from the project or site:*

No new odors will be created by installation of the proposed gas plant. Certain odors associated with oil/gas production facilities such as the 'rotten egg' smell from H_2S could emanate from the proposed gas plant. The amount of odor will diminish because the proposed gas plant will have significantly fewer fugitive emissions sources and will have increased H_2S removal efficiency. This project will improve the environment around the wetlands and in the proposed linear park area.

36. *If the drainage from the project will not be discharged into an existing public storm water drainage system, please describe how it will be accommodated:*

No rainwater will leave the site or be discharged into a public storm water drainage system. Rainwater falling within the developed facility Strip is collected in several rainwater storm pits and pumped into two storm water surge tanks. The water is then pumped to a skim oil separator where trace amounts of oil are removed before the water is blended with the produced water in the field and re-injected into the oil reservoir. This is the current practice for the facility and the proposed project will not impact the amount of water to be disposed.

37. *Has the project site been previously graded?*

Yes. The existing site has been utilized for industrial purposes for many years. Virtually all of the site has been graded at one time or another because of these activities.

38. *What percentage of the site will be graded as part of this project?*

Approximately 100% of the new project site will be regraded during construction. The site of Gas Plant #11 will be cleared and restored per SWEPI's Lease Agreements and federal, state, and local regulations.

39. *Volume of cutting:* ___Ø___ cubic yards; maximum cut slope ratio will be ___N/A___; maximum cut slope height will be ___N/A___ feet.

The site is virtually flat and no cutting will be necessary. The cut slope ratio and slope height are not applicable to this project.

40. *Volume of fill:* ___0___ *cubic yards: maximum fill slope ratio will be* ___N/A___; *maximum fill slope height will be* ___N/A___ *feet.*

The site is virtually flat and no filling will be necessary. The fill slope ratio and fill slope height are not applicable to this project.

41. *Does the cut and fill volume balance?*

No cut or fill material will be transported to or from the Strip during construction.

42. *Identify species of plants and animals that are found on the site, and describe any areas of vegetation to be removed (to be shown on accompanying site plan).*

The site for the proposed gas plant has been previously graded and is virtually clear of plant or animal life. Many plants and animals can be found in the Bolsa Chica wetlands west of the facility. Five endangered bird species are known to use, or have been reported overflying, the Bolsa Chica wetlands. None of these have been reported on the proposed project site or the Gas Plant #11 site. The California Least Tern is on both the Federal and State endangered species list. This bird species forages and nests in the wetlands. The Brown Pelican, Light-footed Clapper Rail and the Peregrine Falcon are also on both the Federal and State endangered species list. These birds primarily use the wetlands for foraging and rest stops. The Belding Savannah Sparrow is on the State

endangered species list. This bird species nests in the pickleweed salt marshes of the wetlands.

There are no endangered species of plants located in the wetlands. The pickleweed has been placed on the State protected list because of its use by the Belding Savannah Sparrow for nesting. No pickleweed will be removed due to this project.

The California Department of Fish and Game and the U.S. Fish and Wildlife Department have been contacted to provide information on the endangered species. Copies of this correspondence are provided in Appendix E. SWEPI will work closely with these agencies to ensure the protection of the endangered species during construction, demolition, and operation activities. The project will not require the removal of any critical habitat. The linear park created at the site of Gas Plant #11 will provide for increased foraging and perching areas as well as provide a "buffer zone" between the wetlands and the industrial site. The removal of Gas Plant #11 will also reduce the amount of emissions, noise and traffic near the wetland area.

43. *What is the distance to the nearest, beach, channel waterway, wetland, degraded wetland, or inland water area? Describe how the project may affect any body of water:*

The site is adjacent to Bolsa Chica State Park along the Pacific Coast and the Bolsa Chica wetlands and is also near Huntington Beach City and State Parks. The proposed project will benefit the surrounding bodies of water since no aqueous discharges occur from the gas plant or the Strip, and air emissions are reduced.

44. *What is the Flood Insurance Rate Map designation on the site. If the site is in a floodplain, describe the method of floodproofing, and impacts of such floodproofing on adjacent property. (A hydrology study may be required)*

The site is not located in a flood plain. The Flood Insurance Rate Map designation for the site is Zone X.

45. *Will the project require installation or replacement of water lines? Approximately how many gallons of water per day will the project use?*

The proposed project will not require installation or replacement of water lines. The water usage will not change due to the construction of the proposed gas plant.

46. *Will the project require installation or replacement of sewer lines? Approximately how many gallons of sewage per day will be discharged into the sewer system?*

The proposed project will not require installation of sewer lines. The site currently uses septic tanks and is not hooked up to a sewer line.

47. *Describe the type and amount (pounds per day) of solid waste generated by the project:*

A description of the solid, non-hazardous waste streams generated by the proposed gas plant is provided in Table 1-4. The amount of municipal waste generated will be approximately the same as for Gas Plant #11. The iron pyrite waste stream replaces the iron sponge waste stream from Gas Plant #11. The iron chelate from the proposed Sulferox® system will be classified as a solid waste, unlike the vanadium waste stream from the existing H_2S removal system which is classified as hazardous waste.

All solid wastes will be handled in a manner to prevent the attraction of insects or the creation of nuisances. Containers will be nonabsorbent, watertight, insect-resistant, durable, easily cleaned, designed for safe handling and large enough to prevent overflow. Containers of a cubic yard or more will be identified with the name and phone number of the servicing agent. Refuse, except for inert materials, will not be allowed to remain on the site for more than seven days. A bill of lading will be used when hauling non-hazardous waste off site. Copies of the bill of lading will be maintained by the SWEPI Health, Safety and Environmental Manager for 30 years.

48. *Will any residential occupants be displaced by the project?*

The proposed gas plant will occupy space on an existing SWEPI lease used for oil/gas production and will not displace any residential occupants.

Table 1-4

Solid Waste Generated

Waste Stream	Description	Amount Generated (lb/day)
Municipal Waste	Paper, boxes, cardboard, etc.	10-15
Waste from Chelate Solution	Waste iron chelate from the SulFerox® Unit - may be sold if market allows	600
Iron Pyrite[1]	Waste stream from Sulfa Treat® Operations	95

(1) The iron pyrite waste is not generated on a daily basis. The estimate assumed that the Sulfa Treat® Vessel would be changed out four times per year generating 34,700 lbs/yr. This number was then divided by 365 days per year.

1.7 MITIGATION AND CONSERVATION MEASURES:

49. What measures have been incorporated into the project, beyond what is required by existing codes and standards to:

(a) Minimize erosion and siltation during construction of the project? After completion?

Little erosion or siltation is expected because the site area is relatively flat. Dirt piles will be wetted or covered with plastic to prevent wind erosion during construction operations. Any water will be collected by the storm water system and will not leave the site. Wind and water erosion are expected to be minimal during construction and after the project completion.

(b) Minimize dust during construction of the property?

Trucks will wet the construction area to minimize dust during construction.

(c) Minimize noise during construction of the property? After completion?

Construction noise will be mitigated by fitting heavy equipment with mufflers or other sound suppression devices, as approved by the manufacturer. Equipment will be maintained to prevent noise generation from worn or broken parts.

The use of offsite modular construction (prefabrication in manufacturers' shops) will be maximized to reduce the amount of time and equipment required for onsite construction.

No noise producing construction activities will occur on a federal holiday, Sunday, or between the hours of 8pm and 7am Monday through Saturday, per the Huntington Beach Municipal Code, Chapter 8.40.

Noise control measures will be incorporated in the new plant design. Replacing gas engine-driven compressors and air coolers with electric motor-driven units will reduce noise emitted from the gas plant. Control valve and piping noise will be

reduced by installation of low-noise valves and/or acoustic insulation. Reducing the number of control valves in the new plant decreases the number of potential noise sources associated with the plant. An emergency ground flare will be used for controlling intermittent gas reliefs. The ground flare is quieter than a standard, smokeless elevated flare, and eliminates noise associated with direct atmospheric venting.

(d) *Minimize air pollution emissions?*

The proposed project will meet or exceed all requirements for emission reductions. Components in the proposed gas plant will utilize Best Available Control Technology (BACT) as defined by the South Coast Air Quality Management District (SCAQMD) to minimize emissions. The internal combustion engines currently used to drive the gas compressors will be replaced with electric motor-driven compressors, ahead of SCAQMD schedule for implementation of this requirement. Two steam boilers will be removed from service. A higher efficiency SulFerox® system will be utilized to reduce H_2S emissions. The existing Stretford Unit will be available for backup H_2S removal capability. Vents and pressure relief valves will be routed to a ground flare to minimize the emission of gas during upset conditions. The number of fugitive emissions sources will be reduced.

(e) *Protect, enhance or conserve energy, non-renewable resources, water, vegetation, wildlife, aesthetic quality, views, etc.?*

The new gas plant will have electric motor-drivers installed for the compressors to conserve fuel at the plant (a non-renewable resource). Gas Plant #11 currently uses internal combustion engines to drive the compressors. Two steam boilers will be removed from Gas Plant #11 which will also reduce the natural gas consumption. Natural gas consumption at the Strip will be reduced even with the use of natural gas for the ground flare pilot.

The demolition of Gas Plant #11 will improve the aesthetic value of the area by removing items that block the view of the wetland area. This land will eventually be used for the linear park which will create a partial buffer zone between the

main industrial strip and the wetland area. This buffer zone along with reduced emissions, noise and traffic will benefit the wetland ecosystem.

The proposed gas plant will reduce the amount of hazardous waste generated at the site by utilizing the SulFerox® technology to remove the H_2S from the stream. This will reduce the risk to local communities associated with the transportation, treatment and disposal of hazardous waste. It will also ultimately help to protect the wildlife, vegetation, water and non-renewable resources that can be damaged or destroyed by hazardous waste.

2.0 CEQA ENVIRONMENTAL ASSESSMENT

2.0 CEQA ENVIRONMENTAL ASSESSMENT

2.1 EARTH

Q. *Will the proposal result in unstable earth conditions or in changes in geologic substructures?*

No, the proposed project will not result in unstable earth conditions or changes in geologic substructures. The proposed gas plant will be built on a previously developed site. The site is less than 1 mile from the Newport-Ingelwood fault; however, the earth conditions of the site itself are relatively stable. This is supported by the fact that structures have existed on this site for more than forty years and no major problems have been encountered due to site stability. All buildings will be designed to meet seismic Zone 4 standards per Section 2312 of the Uniform Building Code.

Q. *Will the proposal result in disruptions, displacements, compaction or overcovering of the soil?*

No disruptions, displacements, compaction or overcovering of soil will occur due to the proposed project. The proposed site has been previously used for oil/gas production facilities and virtually all of the area has been graded at one time or another. The site will be regraded before the proposed gas plant is built.

Q. *Will the proposal result in change in topography or ground surface relief features?*

No, the proposed project will not result in a change in topography or ground surface relief features. The area that the proposed gas plant will be located on is relatively flat and will remain flat after regrading. Gas Plant #11 will be cleared and restored per SWEPI's Lease Agreements and federal, state and local regulations.

Q. *Will the proposal result in the destruction, covering or modification or any unique geological or physical features?*

No, the proposed project will not result in the destruction, covering or modification of any unique geological or physical features. The proposed gas plant will be built on previously developed land.

Q. *Will the proposal result in any increase in wind or water erosion of soils, either on or off the site?*

No increase in wind or water erosion of soils will occur. Wind erosion may decrease because of increased ground cover due to the improvements. Dirt piles will be wetted or covered with plastic to prevent wind erosion during construction operations. Water erosion will not occur because all storm water is collected and disposed on site.

Q. *Will the proposal result in changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet or lake?*

No water will be allowed to runoff the site to cause siltation, deposition or erosion. Storm water will be collected and disposed of on the site.

Q. *Will the proposal result in exposure of people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards?*

The proposed project will not result in any additional exposure to earthquakes compared to the exposure due to the existing facility. Landslides and mudslides are not expected to be a problem because the facility is relatively flat. The earth is relatively stable at the site and ground failure is not expected to be a problem. This project will not expose people or property to any additional geological hazards compared to the hazards at the existing site or the residential and business areas around the facility.

2.2 AIR

Q. Will the proposal result in substantial air emissions or deterioration or ambient air quality?

No, the proposed project will result in a significant decrease in emissions because old equipment will be replaced with new, more efficient equipment. The reductions will result in an improvement of ambient air quality. The type of emissions will not change from those at Gas Plant #11 and are typical for oil/gas production facilities.

The emissions from Gas Plant #11 and the estimated emissions from the proposed facility are presented in Figure 2-1a, 2-1b, 2-1c and 2-1d. The emissions of PM, SO_2, NO_x, CO, CO_2, VOC, CH_4, NH_3 and H_2S are reduced between 53 and 99%. The percent emission reduction by component are presented in Figure 2-2.

The proposed plant will employ BACT as defined by the SCAQMD for all emission sources. The SulFerox® unit which will replace the Stretford unit will be more efficient in removing H_2S from the SBA gas stream. The Stretford unit will remain as a 100% spare. The internal combustion engines currently used to drive the gas compressors will be replaced with electric motor-driven compressors, ahead of SCAQMD schedule for implementation of this requirement. Two steam boilers will be removed from service. Ammonia storage tanks and selective catalytic reduction systems for NO_x control will not be required for the new gas plant since the internal combustion engines will be replaced. These items in Gas Plant #11 were decommissioned in 1990 and are still eligible for emission offsets. Vents and pressure relief valves will be routed to a ground flare to minimize the emission of gas during upset conditions. The number of fugitive emission sources will be reduced as shown below.

Number of Fugitive Emission Sources, Gas Plant #11	Number of Fugitive Emission Sources, Proposed Gas Plant	Reduction
2190	670	1520

Figure 2-1a
Emission Rates - Total

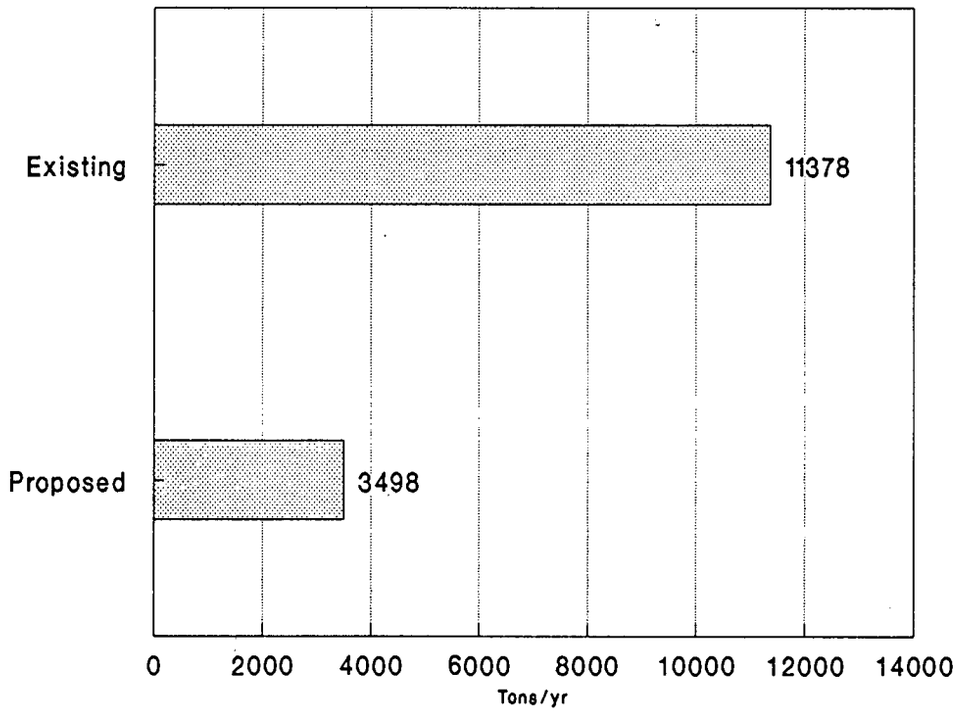


Figure 2-1b
Emission Rates - Existing and Proposed

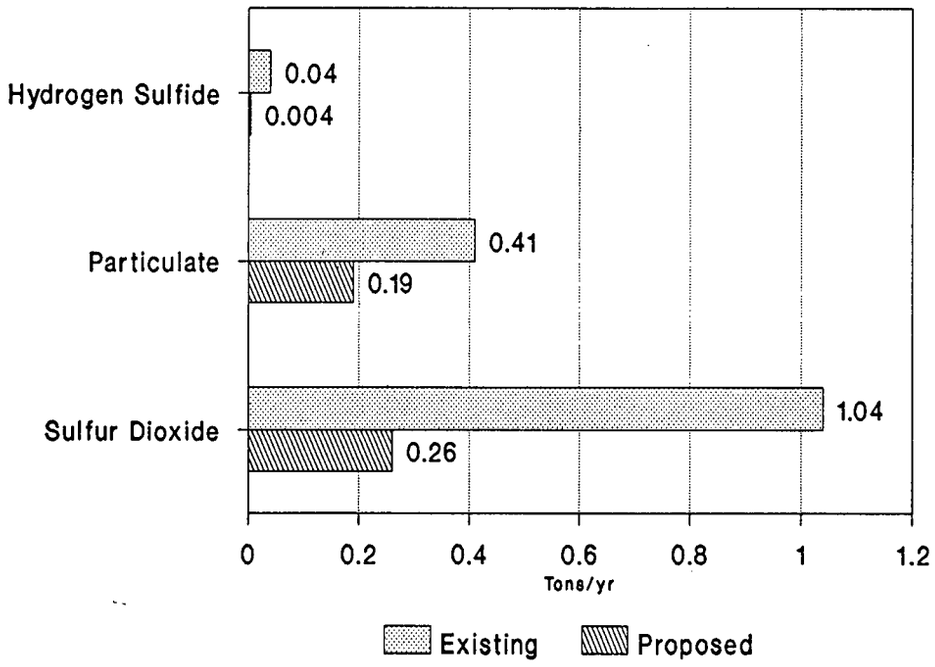


Figure 2-1c
Emission Rates - Existing and Proposed

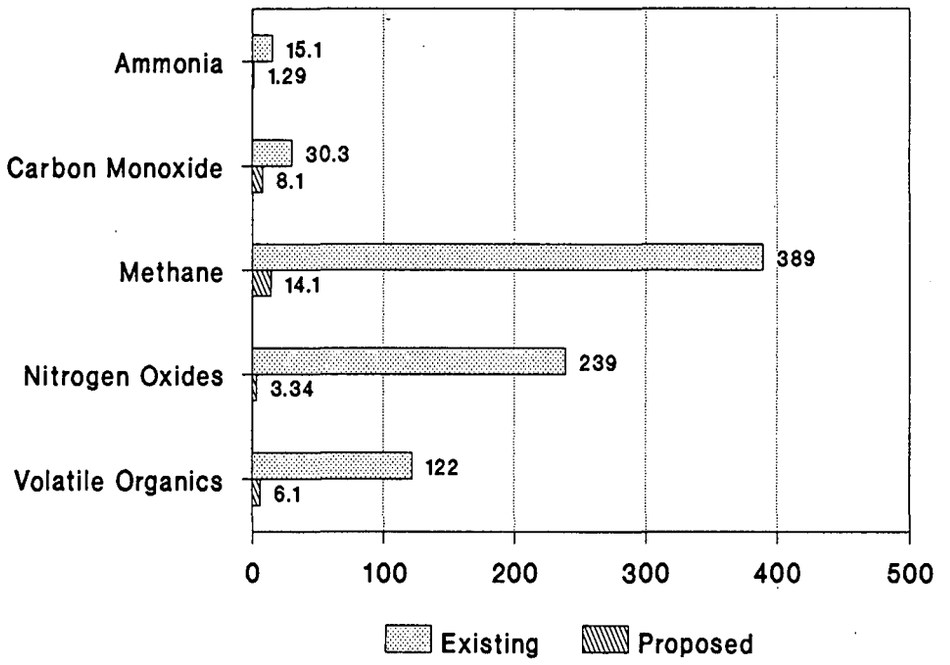


Figure 2-1d
Emission Rates - Existing and Proposed

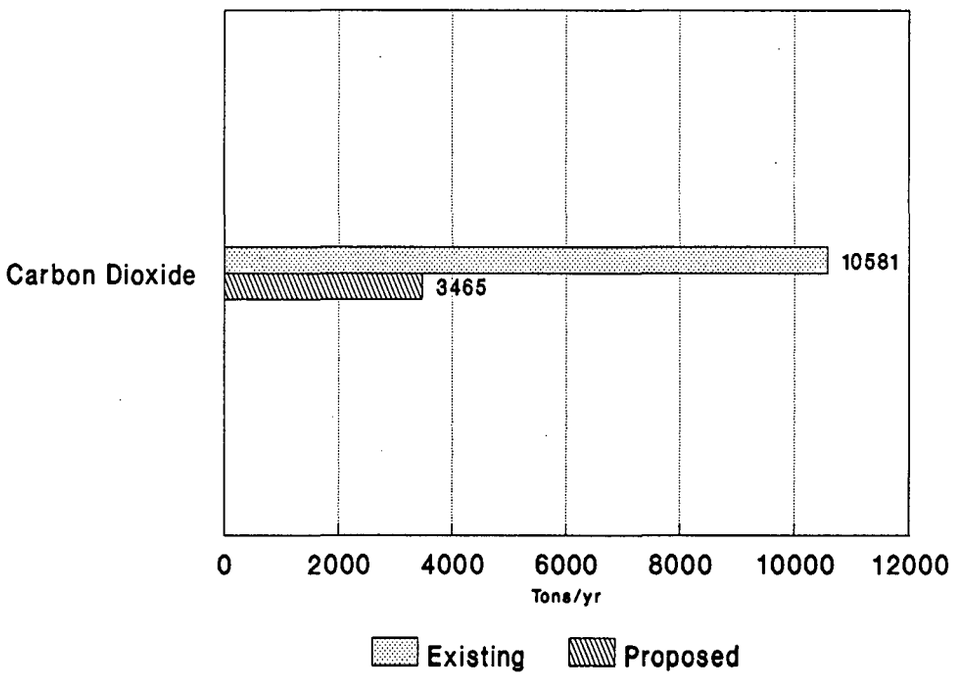
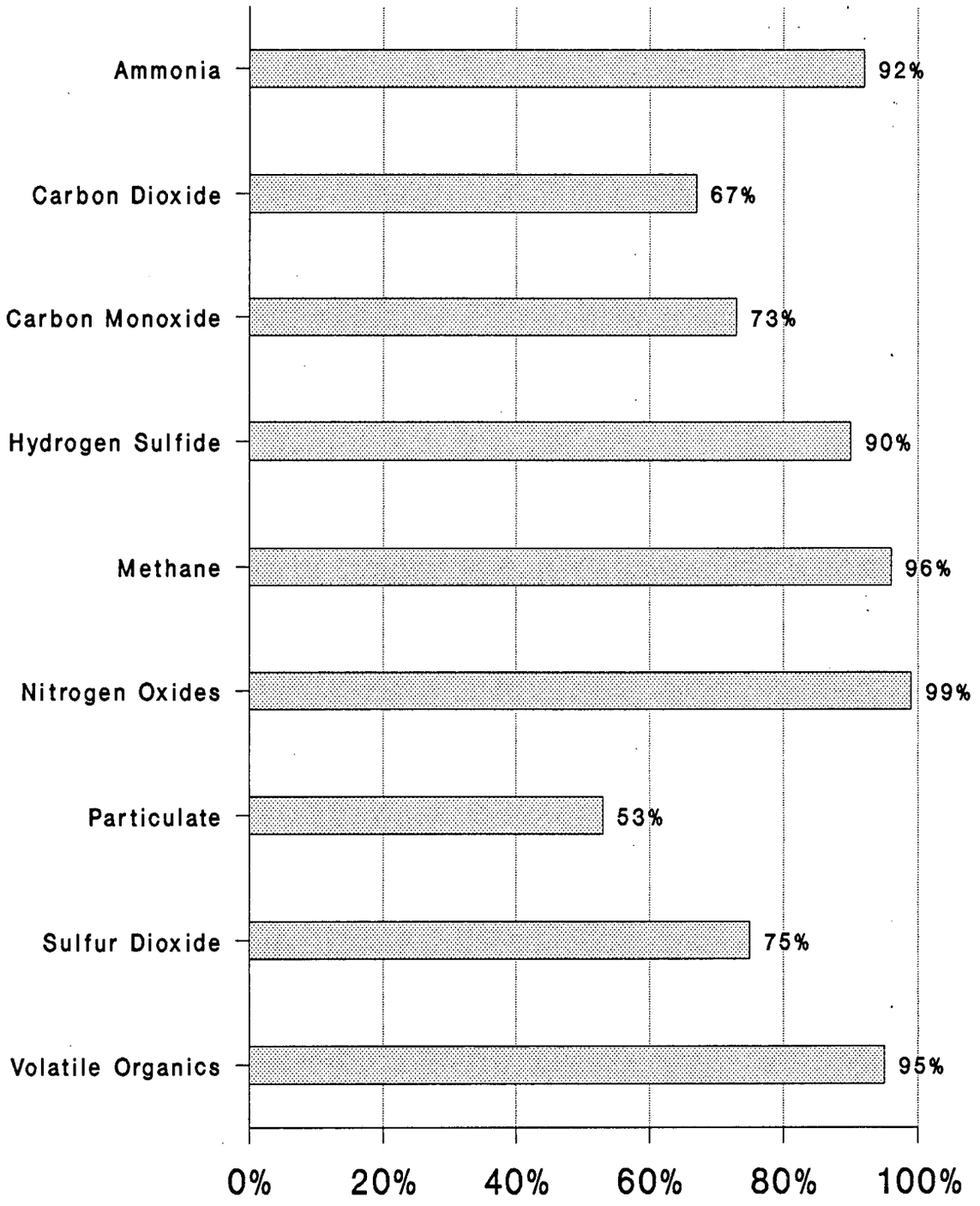


Figure 2-2
Percent Emission Reduction by Component



Q. *Will the proposal result in the creation of objectional odors?*

How about the project site

No, the amount of odor will diminish because the proposed gas plant will employ BACT for fugitive emissions, will have significantly less fugitive emission sources, and will have increased H_2S removal efficiency. This project will improve the environment around the wetlands and in the proposed linear park area.

Q. *Will the proposal result in alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?*

No. The proposed project will reduce carbon dioxide and methane emissions as shown in Figures 2-1c, 2-1d and 2-2. The amount of fugitive VOC emissions sources will be reduced, lowering the amount of methane emitted to the atmosphere. Less carbon dioxide and water vapor will be emitted because the amount of fuel consumed will be reduced. No significant sources of water vapor or heat (such as cooling towers or large boilers) will be associated with this project. The topography of the site will not change so as to alter air movement.

2.3 WATER

Q. *Will the proposal result in changes in currents, or the course of direction of water movements, in either marine or fresh waters?*

No. The site is not located in a floodplain, no streams flow across the property and no dredging or filling of water courses will be required to prepare the site. No discharge of water will occur to any body of water off the site since all stormwater and process waste water will be disposed on site.

Q. *Will the proposal result in changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?*

No, the proposed project will not result in changes in absorption rates, drainage patterns, or the rate and amount of surface runoff. No rainwater will leave the site or be discharged into a public storm water drainage system. Rainwater falling within the

developed facility Strip is collected in several rainwater storm pits and pumped into two storm water surge tanks. The water is then pumped to a skim oil separator where trace amounts of oil are removed before the water is blended with the produced water in the field and re-injected into the oil reservoir. This is current practice for the facility and the proposed plant will not impact the amount of water to be disposed.

Q. *Will the proposal result in alterations to the course or flow of flood waters?*

No. The site is classified in Zone X under the Flood Insurance Rate Map designations and is not located in a flood plain. No construction or demolition will occur in a flood plain.

Q. *Will the proposal result in change in the amount of surface water in any water body?*

No. Fresh water is received from on-site wells and city sources, not from nearby surface waters. The amount of water used at the site will not change from current usage due to the proposed project. Waste water will be collected and disposed of on-site; no water will be discharged into any surface water body.

Q. *Will the proposal result in discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?*

No water will be discharged into any surface water body and no alteration in surface water quality will occur.

Q. *Will the proposal result in alteration of the directional or rate of flow of ground waters?*

The directional or rate of flow of ground water will not be affected by the proposed project. There will not be any additional demand on the rate of flow of water received from the wells on-site and no change in disposal rate of stormwater and waste water.

Q. *Will the proposal result in change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?*

The quantity of ground water will not be affected by the proposed project. There will not be any additional demand on the amount of water received from the wells on-site and no change in amount of stormwater disposed. Surface grading will be required for site preparation and will not intercept an aquifer.

Q. *Will the proposal result in substantial reduction in the amount of water otherwise available for public water supplies?*

The amount of water available to the public will not be affected by this project. The Strip's current water usage rate will not change upon completion of the proposed project.

Q. *Will the proposal result in exposure of people or property to water related hazards such as flooding or tidal waves?*

The proposed gas plant will be located at the current site and does not increase the risk of exposure to any water related hazards.

2.4 PLANT LIFE

Q. *Will the proposal result in change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?*

No. Plant life is virtually non-existent on the portion of the site where the proposed gas plant will be built because the site has been previously developed. The grasses and weeds that may be removed during the construction phase will not change the diversity or number of plant species in the area.

Q. *Will the proposal result in the reduction of the numbers of any unique, rare or endangered species of plants?*

No. One species of plants, the pickleweed, that exists in the Bolsa Chica wetlands has been placed on the State protected list because of its use by the Belding Savannah Sparrow for nesting. The pickleweed has not been reported to exist on the proposed site and will not be disturbed by the proposed project.

Q. *Will the proposal result in introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?*

Landscaping is not part of the proposed project, and no new plants will be added to the site. The proposed project will not result in a barrier to the normal replenishment of existing species.

Q. *Will the proposal result in reduction in acreage of any agricultural crop?*

No reduction in acreage of agricultural crops will occur due to the project. The project site is zoned M2-O1-CZ (industrial-oil with drilling-coastal zone) and is currently used for the production of oil and gas.

2.5 ANIMAL LIFE

Q. *Will the proposal result in change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms or insects)?*

No. Animal life is virtually non-existent on the portion of the site where the proposed gas plant will be built because the site has been previously developed. The animals that are in the area will be able to coexist with the new facilities as with the existing facilities.

Q. *Will the proposal result in reduction of the numbers of any unique, rare or endangered species of animals?*

The proposed project will not result in the reduction of the numbers of any unique, rare or endangered species of animals. Five endangered bird species are known to use, or have been reported overflying, the Bolsa Chica wetlands. None of these have been reported on the proposed project site or the Gas Plant #11 site. The California Least Tern is on both the Federal and State endangered species list. This bird species forages and nests in the wetlands. The Brown Pelican, Light-footed Clapper Rail and the Peregrine Falcon are also on both the Federal and State endangered species list. These birds primarily use the wetlands for foraging and rest stops. The Belding Savannah Sparrow is on the State endangered species list. This bird species nests in the pickleweed salt marshes of the wetlands.

The California Department of Fish and Game and the U.S. Fish and Wildlife have been contacted to provide information on these birds. Copies of this correspondence is provided in Appendix E. SWEPI will work closely with these agencies to protect the endangered species during construction demolition and operating activities. The project will not require the removal of any critical habitat. The linear park created at the site of Gas Plant #11 will provide for increased foraging and perching areas as well as provide a "buffer zone" between the wetlands and the industrial site. The removal of Gas Plant #11 will also reduce the amount of emissions, noise and traffic near the wetland area.

Q. *Will the proposal result in introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?*

No new species of animals will be introduced to the area. The proposed project will not change the site significantly to be considered as an additional barrier to the animals.

Q. *Will the proposal result in deterioration to existing fish or wildlife habitat?*

No, the improvements to the facility will result in a benefit to existing habitats, because of decreases in noise, emissions and traffic near the wetland area.

2.6 NOISE

Q. Will the proposal result in increases in existing noise levels?

No. Noise levels generated by new equipment in the proposed gas plant will be less that noise levels generated by equipment currently operating in Gas Plant #11. The main noise sources in Gas Plant #11, the internal combustion engine-driven compressors, will be replaced with quieter electric motor-driven compressors. The expected reductions in noise levels for these units are presented below:

Unit	Noise Levels, dBA		
	Existing	Proposed	Change
Compressors & Drivers @ 3 ft.	90 to 93	85 to 88	-5
Compressors & Drivers @ 100 ft.	65 to 70	60 to 65	-5

The following changes in design between the new and existing gas plants will also provide a reduction in noise level impacts:

- The new compressors will be located further from residences than the existing compressors.
- Fewer fans (air-cooled heat exchangers) will be installed in the new plant than are currently used in Gas Plant #11.
- No internal combustion engines will be used as fan drivers in the new plant. One set of fans in Gas Plant #11 is engine driven.
- Fewer control valves, a potential noise source, will be installed in the new plant than are currently used in Gas Plant #11.
- No hydrocarbon streams will be vented directly to atmosphere in the new plant.

Typical construction related noise will be generated at the project site during the construction phase. Construction noise sources include diesel or gasoline-powered dozers, graders, loaders, backhoes, dump trucks, air compressors and welding machines. Noise levels at 50 feet from the diesel-powered equipment typically range from 80 to 90 dBA. Gasoline-powered equipment noise levels typically range from 75 to 80 dBA at 50 feet. Construction noise is intermittent in nature and only occurs during the construction phase of the project. The use of offsite modular construction (prefabrication) will be maximized to reduce time required for onsite construction. No construction activities will occur on Sunday, a federal holiday or between the hours of 8pm to 7am Monday through Saturday, per the Huntington Beach Municipal Code, Chapter 8.40.

Q. *Will the proposal result in exposure of people to severe noise levels?*

The proposed project will not result in exposure of people to severe noise levels.

2.7 LIGHT AND GLARE

Q. *Will the proposal produce new light or glare?*

The new lighting will not be a significant change from the existing lighting at the facility. Exterior lighting will be provided for the proposed gas plant for safety, as with most of the existing buildings at the site. The lighting will be shielded to prevent excessive glare offsite. Enough outdoor lighting will be used to allow plant operators to work safely and efficiently, approximately 5 foot-candles of light around the process areas and 0.1 foot-candles around the buildings for safety. Lights will be located to provide optimum visibility. Exact locations of the lights will be determined during detailed design.

2.8 LAND USE

Q. *Will the proposal result in a substantial alteration of the present or planned land use of an area?*

The proposed gas plant consists of the same type of activities as the Strip and does not constitute an alteration of the present or planned zoning of the area. The site is currently

zoned M2-O1-CZ (industrial-oil with drilling-coastal zone). The oil and gas production activities at the site have a conditional use permit and a coastal commission exemption, and are in agreement with the zoning requirements. Zoning maps for the area surrounding the site are presented in Appendix A.

2.9 NATURAL RESOURCES

Need Info 2.10

Q. Will the proposal result in increase in the rate of use of any natural resources?

No. The proposed gas plant is rated to process 6 MMSCFD of gas, which is 36 MMSCFD less than the rated value of Gas Plant #11.

The small amount of natural gas that is consumed by the gas plant will be reduced by the proposed project. The compressor drivers and steam boilers currently utilize natural gas. The proposed gas plant will eliminate the boilers and replace the gas drivers with electric drivers. The only item at the proposed gas plant that will burn natural gas is the pilot of the emergency flare.

2.10 RISK OF UPSET

PUT IN A.D.L REPORT SUMMARY

Q. Will the proposal involve a risk of an explosion or the release of hazardous substances (including, but not limited to oil, pesticides, chemicals or radiation) in the event of an accident or upset conditions?

This project involves the replacement of Gas Plant #11 with a new gas plant. The risk will actually decrease because of the reduction of hazardous waste generated, less fugitive emissions of natural gas, reduction of natural gasoline storage and propane storage, and the increase in distance from the gas plant to residential areas. Information on the potential hazardous substances that the proposed gas plant may use is in Appendix B.

The risk associated with the proposed gas plant will also be reduced by utilizing an improved fire protection system. Details of the proposed Fire Protection Plan that SWEPI

has submitted to the City of Huntington Beach Fire Department are provided in Appendix C.

Q. *Will the proposal involve possible interference with an emergency response plan or an emergency evacuation plan?*

No. The improvements associated with the proposed project will increase the effectiveness of the Emergency Response Plan.

2.11 POPULATION

Q. *Will the proposal alter the location, distribution, density, or growth rate of the human population of an area?*

The location, distribution, density, or growth rate of the population in the area will not be affected by the proposed project. The proposed project will utilize the staff of the existing facility for operations and will not increase or decrease the current number of employees.

2.12 HOUSING

Q. *Will the proposal affect existing housing, or create a demand for additional housing?*

The amount of housing in the area will not be affected by the proposed project. Staff of the existing facility will be utilized for operations of the new gas plant, and the current number of employees will not change.

2.13 TRANSPORTATION/CIRCULATION

Q. *Will the proposal result in generation of substantial additional vehicular movement?*

The proposed project will not change the amount of vehicle trips to and from the Huntington Beach Facility. Vehicle trips from Gas Plant #11 to the Strip will cease after the new gas plant is operational. This reduced traffic will be beneficial to the animals that live in the area west of the facility.

Q. *Will the proposal result in effects on existing parking facilities, or demand for new parking?*

The parking requirements of the proposed facility will be met by existing parking lots and additional parking will not be required.

Q. *Will the proposal result in substantial impact upon existing transportation systems?*

The project will not have an impact upon existing transportation systems since the amount of vehicle trips and the number of employees at the site will remain the same. There will be a decrease in traffic through the Bolsa Chica wetlands when Gas Plant #11 is removed.

Q. *Will the proposal result in alterations to present patterns of circulation or movement of people and/or goods?*

The overall amount of vehicle traffic will remain the same and the project is not expected to have a significant impact upon circulation or movement of people and goods. Some of the delivery vehicles and pick-up trucks that enter and leave the facility may originate from different destinations due to the change in chemicals that will be required by the new gas plant. Less amounts of hazardous materials will be transported, because of the change in contacting fluids in the H_2S removal system.

Q. *Will the proposal result in alterations to waterborne, rail or air traffic?*

No. The site is currently accessed by ground transportation and helicopter. The project will not incorporate access routes by sea ports, rail lines or airports and will not alter the current helipad schedule.

Q. *Will the proposal result in increase in traffic hazards to motor vehicles, bicyclists or pedestrians?*

Increases in traffic hazards will not be caused by the proposed project. The only change in traffic patterns will occur within the site boundaries. The number of vehicle trips to the

site will remain the same and traffic patterns outside the site will not be affected by the project.

2.14 PUBLIC SERVICES

Q. *Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas: fire protection, police protection, schools, parks or other recreation facilities, maintenance of public facilities including roads, other governmental services?*

Fire Protection

The proposed project will reduce the demands on the fire department because of the upgrades to the fire protection system at the facility. A proposed Fire Protection Plan has been submitted to the City of Huntington Beach Fire Department. SWEPI will continue to work closely with the City of Huntington Beach to adopt a final Plan that is suitable to meet the needs of the area. Details of a proposed Plan are given in Appendix C.

Police Protection

The project will not require any increase in the services of the Huntington Beach Police Department.

Schools

The project will not require a change in the services of the school district because the plant will not increase the amount of employees.

Parks and Recreation Facilities

There will not be a change in the required services of the existing park and recreation facilities because the plant will not increase the amount of employees.

Approximately 2.6 acres of land will be made available for future development of the linear park with the demolition of Gas Plant #11.

Maintenance

The project will not require a change in the services of city maintenance services because the proposed gas plant will be located at the existing SWEPI facility.

2.15 ENERGY

Q. Will the proposal result in use of substantial amounts of fuel or energy?

The facility will burn less fuel because of the transformation of the compressor drivers from natural gas to electric and the removal of the boilers. More electricity from Southern California Edison will be used by the site to supply the compressor drivers.

Q. Will the proposal result in substantial increase in demand upon existing sources or energy, or require the development of new sources of energy?

The amount of electricity required by the project will not be a substantial increase in the demand of the existing facility. No new sources of energy will be required.

2.16 UTILITIES

Q. Will the proposal result in a need for new systems, or substantial alterations to the following utilities:

This project will not increase the demand on private or city water, natural gas, or sewage treatment systems. There will be a increase in the amount of electricity purchased from SCE but the increase will not require new systems or substantial upgrades.

2.17 HUMAN HEALTH

Q. Will the proposal result in creation of any health hazard or potential health hazard (excluding mental health)?

No. The proposed project will actually improve the safety of the facility and will reduce the potential health hazards. Better controls achieved by application of BACT for fugitive

volatile organics will reduce the risk of toxic emissions. Improved fire safety devices and measures will reduce the risk of explosions, fire and other emergencies to the surrounding areas.

Q. *Will the proposal result in exposure of people to potential health hazards?*

No. The exposure of people to potential health hazards will be reduced by the construction of the proposed gas plant because of the improved emission controls and the fire safety measures that will be implemented. The proposed gas plant will still have the potential to emit certain toxic chemicals such as benzene and H_2S because these chemicals are naturally found in crude oil and gas. These emissions will be reduced by several methods, including:

- Capturing the VOC emissions from pressure relief valves and tanks and destroying them in the ground flare versus venting the gas to the atmosphere
- Sizing the ground flare to destroy all gas processed versus venting the gas to the atmosphere in case of an upset
- Incorporating a safer, more efficient means of removing the H_2S from the SBA gas stream which does not use a catalyst classified as a hazardous material.

The proposed Fire Protection Plan is presented in Appendix C. Some of the measures that will protect the health and safety of the surrounding community include:

- Use of H_2S monitors around the perimeter of the facility.
- Installation of a firewater system and a gas/fire detection system.
- Modifications as needed of the Emergency Response Plan, Inspection/Maintenance Plan, Worker Safety Plan and Site Security Plan.

2.18 AESTHETICS

Q. *Will the proposal result in the obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?*

No. The removal of Gas Plant #11 from the border of the wetlands will significantly increase the aesthetic beauty of the wetland area. The proposed gas plant will be located in an area of the strip that already has similar equipment located nearby, consolidating the industrial operations to one area and opening scenic vistas next to the facility.

The ground flare incorporated into the gas plant design will have an approximate height of 40 feet. The flare will have no visible flame and will be smokeless.

2.19 RECREATION

Q. *Will the proposal result in an impact upon the quality or quantity of existing recreational opportunities?*

The removal of Gas Plant #11 from the border of the wetlands will increase the quality and quantity of recreational facilities by making available the land for the development of the linear park along the border of the wetlands.

The removal of Gas Plant #11 will also benefit existing recreational facilities, such as the Bolsa Chica State Park. The emission reduction will decrease odors in the area. The reduction of noise and traffic near the wetland border will benefit the animals of the wetland and increase the recreational value of the surrounding area.

2.20 CULTURAL RESOURCES

Q. *Will the proposal result in the alteration of or the destruction of a prehistoric or historic archaeological site?*

No. The soils around the site are relatively young (5,000-10,000 years old) and are not considered to have a significant amount of fossils according to the Bolsa Chica Development Plan (1985). The closest site of vertebrate fossil remains is located near Wintersburg Street in Huntington Beach.

The proposed project will not affect any archaeological sites that exist in the area around the Bolsa Chica wetlands.

Q. *Will the proposal result in adverse physical or aesthetic affects to a prehistoric or historic building, structure, or object?*

The project will not involve the demolition of or affect any historic buildings, structures or objects. The demolition activities are associated only with oil/gas production equipment.

Q. *Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?*

The site area has been used for the production of oil and gas for over 50 years. The proposed project is only a minor modification of the existing production facilities. No affects to ethnic cultural values has been known to be caused by the production facilities, and the proposed project is not expected to change this.

Q. *Will the proposal restrict existing religious or sacred uses within the potential impact area?*

The project is not expected to have an impact of existing religious or sacred uses of the area surrounding the facility.

2.21 IMPACTS

Table 2-1 provides a summary of the potential affect the project will have on the CEQA areas of concern. The proposed project will benefit the surrounding community.

Table 2-1

CEQA Summary

CEQA Item	Will Positively Affect	Will Not Affect	Could Negatively Affect
Earth		✓	
Air	✓		
Water		✓	
Plant Life	✓		
Animal Life	✓		
Noise	✓		
Light/Glare		✓	
Land Use	✓		
Natural Resources	✓		
Risk of Upset	✓		
Population		✓	
Housing		✓	
Transportation/ Circulation		✓	
Public Services		✓	
Energy		✓	
Utilities		✓	
Human Health	✓		
Aesthetics	✓		
Recreation	✓		
Cultural Resources		✓	

Construction noise will be mitigated by fitting heavy equipment with mufflers or other sound suppression devices, as approved by the manufacturer. Equipment will be maintained to prevent noise generation from worn or broken parts.

The use of offsite modular construction (prefabrication in manufacturers' shops) will be maximized to reduce the amount of time and equipment required for onsite construction.

No noise producing construction activities will occur on a federal holiday, Sunday, or between the hours of 8pm and 7am Monday through Saturday, per the Huntington Beach Municipal Code, Chapter 8.40.

Noise control measures will be incorporated in the new plant design. Replacing gas engine-driven compressors and air coolers with electric motor-driven units will reduce noise emitted from the gas plant. Control valve and piping noise will be reduced by installation of low-noise valves and/or acoustic insulation. Reducing the number of control valves in the new plant decreases the number of potential noise sources associated with the plant. An emergency ground flare will be used for controlling intermittent gas reliefs. The ground flare is quieter than a standard, smokeless elevated flare, and eliminates noise associates with direct atmospheric venting.

The proposed project will meet or exceed all requirements for emission reductions. All components in the proposed gas plant will utilize the Best Available Control Technology (BACT) as defined by South Coast Air Quality Management District (SCAQMD) to minimize emissions. The internal combustion engines currently used to drive the gas compressors will be replaced with electric motor-driven compressors, ahead of SCAQMD schedule for implementing of this requirement. Two steam boilers will be removed from service. A higher efficiency SulFerox® system will be utilized to reduce H_2S emissions. The existing Stretford Unit will be available for backup H_2S removal capability. Vents and pressure relief valves will be routed to a ground flare to minimize the emission of gas during minor upset or major emergency conditions. The number of fugitive emissions sources will be reduced.

The project will benefit the ecosystem of the wetland area by providing land for development into the planned linear park and by reducing the amounts of emissions,

noise and traffic. The linear park will act as a buffer zone between the wetlands and the main facility, as well as providing increased foraging, perching and resting areas.

All practical steps will be taken to ensure that the construction and demolition will not affect any endangered species. The California Department of Fish and Game and the U.S. Fish and Wildlife Department have been contacted to provide information on the endangered species. SWEPI will work closely with these agencies to ensure the protection of the endangered species during construction, demolition, and operation activities.

The installation of electric motor-drivers for the compressors will reduce fuel consumption at the facility. Gas Plant #11 currently uses gas-fired internal combustion engines to drive the compressors. Two steam boilers will be removed which will also reduce the natural gas consumption. The overall natural gas consumption will be reduced at the facility even with the use of natural gas for the ground flare pilot.

The proposed facility will reduce the amount of hazardous waste generated at the site by utilizing the SulFerox® technology to remove the H_2S from the stream. This will reduce the risk to local communities associated with the transportation, treatment and disposal of hazardous waste. It will also ultimately help to protect the wildlife, vegetation, water and non-renewable resources that can be damaged or destroyed by hazardous waste.

3.0 CERTIFICATION

3.0 CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge or belief.

7/11/91
Date

DANIEL H. JOHNNIE, JR.
Print Name of Preparer

Daniel H. Johnnie, Jr.
Signature of Preparer

J. A. RULL
Print Name of Property Owner or Authorized Agent

J. A. Rull for J. A. Rull
Signature of Property Owner or Authorized Agent.

4.0 APPENDICES

Appendix A
Zoning Maps

ECTIONAL DISTRICT MAP • 3-6-11

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

ADOPTED MARCH 7, 1960

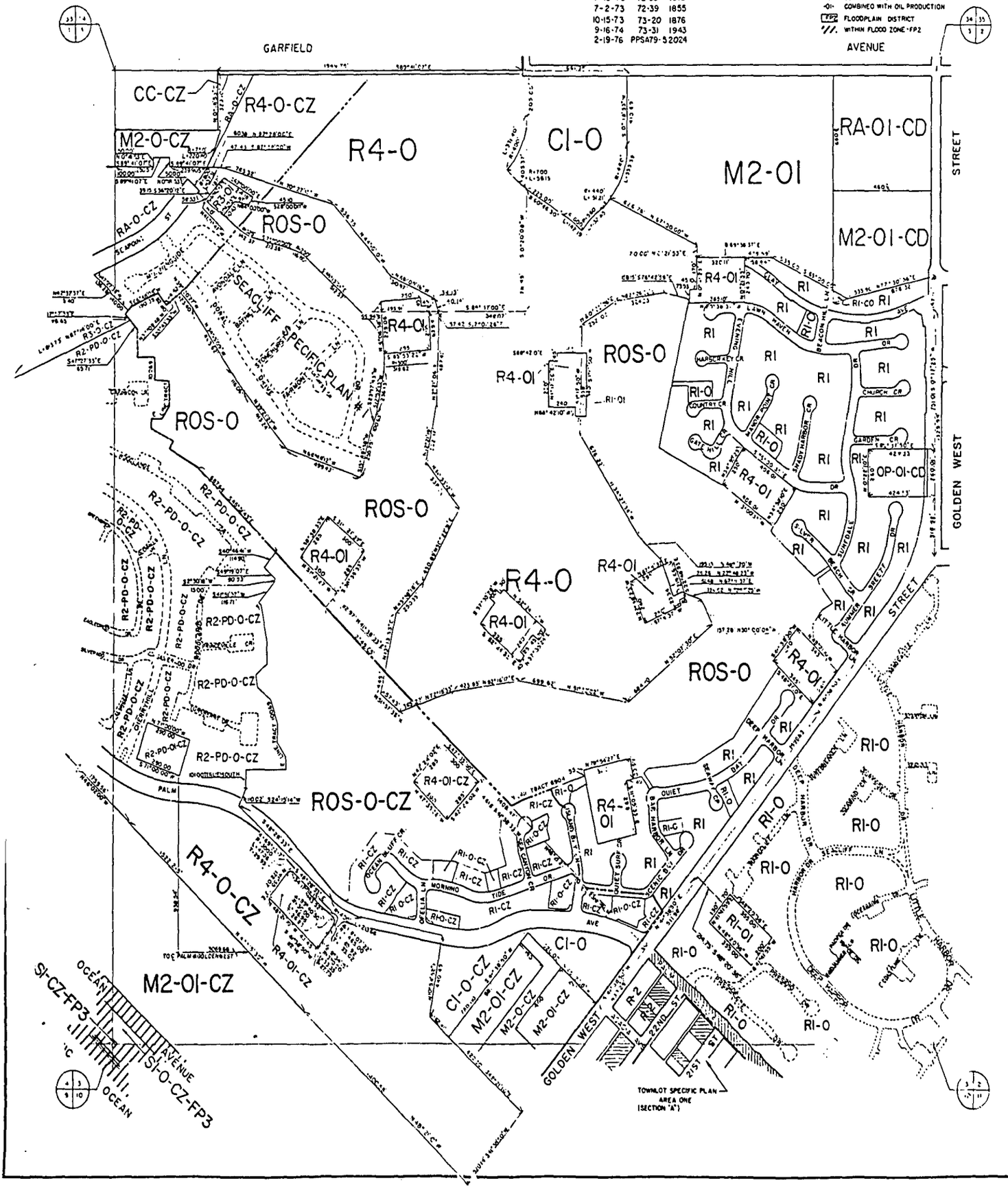
CITY COUNCIL ORDINANCE NO. 754

AMENDED	ZONE CASE	ORD. NO.	AMENDED	ZONE CASE	ORD. NO.
9-7-62	234	899	2-5-79	78-4	2343
12-3-62	281,282	938	1-7-80	RES. NO. 4828	
2-21-66	345	1186	1-17-82	81-14	2536
6-20-66	66-19	1216	9-6-83	83-8	2640
12-5-66	66-49	1271	7-2-84	84-7	2706
6-17-68	68-13	1419	1-17-83	FLOOD ZONE	2606
2-17-68	68-31	1472	10-5-87	87-1	2906
6-24-70	69-34	1582	9-19-88	88-9	2959
10-19-70	70-10	1606			
5-3-71	71-1	1643			
1-3-72	71-37	1706			
5-15-72	72-13	1746			
7-7-72	72-16(G)	1761			
1-15-73	72-35	1813			
7-2-73	72-39	1855			
10-15-73	73-20	1876			
9-16-74	73-31	1943			
2-19-76	PPSA79-5	2024			

0 1000 SCALE IN FEET

NOTE:
ALL DIMENSIONS ARE IN FEET
ANY ZONE ADJOINING ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY

LEGEND:
- M-2 INDUSTRIAL DISTRICT
- R-2 MEDIUM DENSITY RESIDENTIAL DISTRICT
- R-3 MEDIUM-HIGH DENSITY RESIDENTIAL DISTRICT
- R-1 LOW DENSITY RESIDENTIAL DISTRICT
- R-4 HIGH DENSITY RESIDENTIAL DISTRICT
- OP OFFICE - PROFESSIONAL
- C-1 NEIGHBORHOOD COMMERCIAL
- RC RECREATIONAL OPEN SPACE DISTRICT
- SP DESIGNATES PRECISE PLAN OF STREET ALIGNMENT
- SL SHORELINE DISTRICT
- COMBINED WITH OIL PRODUCTION IN AREA BOUNDED BY PALM AVE. ON NE, GOLDENWEST ST. ON NW, OCEAN AVE. ON SW, & SEVENTH ST. ON SE.
- CC COASTAL CONSERVATION DISTRICT
- CZ COASTAL ZONE SUFFIX
- RA RESIDENTIAL AGRICULTURAL DISTRICT
- -OZ COMBINED WITH OIL PRODUCTION
- -CO CIV.' DISTRICT
- -O- COMBINING OIL
- -OI- COMBINED WITH OIL PRODUCTION
- FP2 FLOODPLAIN DISTRICT
- //// WITHIN FLOOD ZONE-FP2



SECTIONAL DISTRICT MAP • 4-6-11 & 5-6-11

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

ADOPTED MARCH 7, 1960

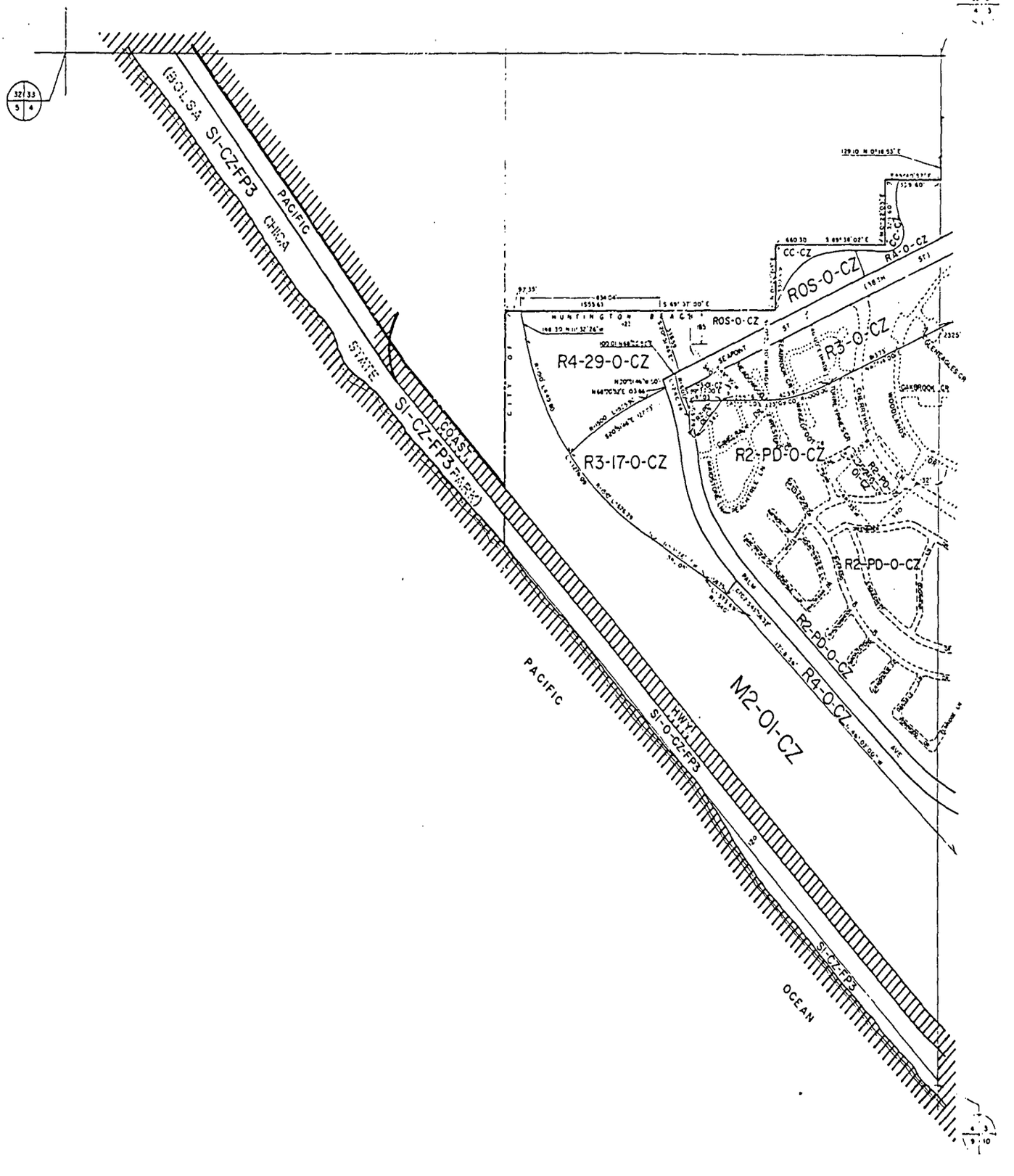
CITY COUNCIL ORDINANCE NO. 754

AMENDED	ZONE CASE	ORD. NO.	AMENDED	ZONE CASE	ORD. NO.
12-3-62	281,282	938			
2-22-66	545	1186			
10-19-70	70-10	1606			
7-2-73	72-39	1855			
5-4-81	80-6	2482			
1-18-82	81-14	2536			
2-22-83	82-20	2609			
9-19-83	PP83-1	2643			
7-2-84	84-7	2706			
1-17-83	FLOOD ZONE	2606			

SCALE 0 1000 IN FEET

NOTE:
ALL DIMENSIONS ARE IN FEET
ANY ZONE ADJOINING ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY

LEGEND:
- IG INDUSTRIAL DISTRICT
- R2 MEDIUM DENSITY RESIDENTIAL DISTRICT
- R3 MEDIUM-HIGH DENSITY RESIDENTIAL DISTRICT
- R4 HIGH DENSITY RESIDENTIAL DISTRICT
- CN NEIGHBORHOOD COMMERCIAL DISTRICT
- RA RESIDENTIAL AGRICULTURAL DISTRICT
- ROS RECREATIONAL OPEN SPACE DISTRICT
- SH SHORELINE DISTRICT
- CZ COASTAL ZONE SUFFIX
- CC COASTAL CONSERVATION DISTRICT
- PD PLANNED DEVELOPMENT
- O COMBINING OIL PRODUCTION DISTRICT
- O1 COMBINING OIL PRODUCTION DISTRICT
- O2 COMBINING OIL PRODUCTION DISTRICT
- FP3 FLOODPLAIN DISTRICT
- /// WITHIN FLOOD ZONE



9-6-11 &
10-6-11

ECTIONAL DISTRICT MAP •

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

ADOPTED MARCH 7, 1960

CITY COUNCIL ORDINANCE NO 754

AMENDED	ZONE CASE	ORD NO
5-7-62	234	839
12-3-62	281,292	934
4-20-66	545	1186
7-18-67	67-16	1344
2-17-69	69-31	1472
10-19-70	70-10	1606
5-3-71	71-1	1643
1-3-72	71-55	1707
2-7-72	71-51(C)	1710
2-7-72	71-51(D)	1711
2-7-72	71-51(E)	1712
2-7-72	71-51(F)	1713
2-7-72	71-51(I)	1714

AMENDED	ZONE CASE	ORD NO
2-7-72	71-51(H)	1715
2-7-72	71-51(J)	1716
6-5-72	71-51(K)	1743
7-17-72	72-16	1762
2-20-73	72-45	1819
6-2-75	TECHNICAL	1998
2-16-76	TECHNICAL	2024
6-16-76	TECHNICAL	2031
12-18-78	78-16	2079
2-20-79	78-27	2100
1-7-81	PECAN'S SPECIFIC PLAN	2148/49
1-19-82	81-16	2226
10-18-83	83-2-A	2446-A
12-19-83	83-2-B	2446-B
10-17-83	83-2-C	2446-C
2-21-84	80-13	2562
7-2-84	84-7	2706
8-6-84	80-16	2616
1-17-83	FLOOD ZONE	2606

LEGEND

- /// WITHIN FLOOD ZONE -FP3
- FP3 FLOODPLAIN DISTRICT
- SZ SHORELINE DISTRICT
- CZ COASTAL ZONE SUFFIX
- Q QUALIFIED CLASSIFICATION
- CF-E COMMUNITY FACILITIES(EDUCATIONAL) DISTRICT
- CF-R COMMUNITY FACILITIES(RECREATIONAL) DISTRICT
- R1 LOW DENSITY RESIDENTIAL DISTRICT
- R2 MEDIUM DENSITY RESIDENTIAL DISTRICT
- R3 MEDIUM HIGH DENSITY RESIDENTIAL DISTRICT
- RHD HIGH DENSITY RESIDENTIAL DISTRICT
- CG GENERAL BUSINESS DISTRICT
- IG INDUSTRIAL DISTRICT
- C1 NEIGHBORHOOD COMMERCIAL DISTRICT
- C2 COMMUNITY BUSINESS DISTRICT

SUFFIX LEGEND

- -OS COMBINED WITH OIL PRODUCTION
- COMBINED WITH OIL PRODUCTION IN AREA BOUNDED BY PALM AVE ON NE, GOLDENWEST ST ON NW, OCEAN AVE ON SW, & SEVENTH ST ON SE
- DESIGNATES PRECISE PLAN OF STREET ALIGNMENT
- -OI COMBINED WITH OIL PRODUCTION
- -OZ COMBINED WITH OIL PRODUCTION
- COASTAL ZONE BOUNDARY

M2-01-CZ
M2-0-CZ
R4-0-CZ
M2-01-CZ
SI-O-CZ-FP3
R1-O
R1-O
R1-O
R1-O
C1-01
CF-E
(SECTION "A") TOWNLOT SPECIFIC PLAN AREA ONE
(SECTION "B") TOWNLOT SPECIFIC PLAN AREA ONE
CF-R (P3)
C2
C2
DISTRICT 10 DOWNTOWN SPECIFIC PLAN DISTRICT
DOWNTOWN SPECIFIC PLAN DISTRICT-11 -O -FP3
PACIFIC OCEAN
GOLDEN WEST
ORANGE
MAGNOLIA
MAIN
PECAN
OLIVE
WALNUT
ACACIA
STREET
AVENUE
SEVENTEENTH
SIXTEENTH
FIFTEENTH
FOURTEENTH
THIRTEENTH
TWELFTH
ELEVENTH
TENTH
NINTH
EIGHTEENTH
TWENTY-FIRST
TOWNLOT SPECIFIC PLAN AREA ONE (SECTION "A")
TOWNLOT SPECIFIC PLAN AREA ONE (SECTION "B")

SCALE 0 1000 IN FEET

NOTE
ALL DIMENSIONS ARE IN FEET
ANY ZONE BOUNDARY ADJOINING ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY

SECTIONAL DISTRICT MAP

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

AMENDED BY ZONE CASE:
71-9, 74-5

33-5-11

ADOPTED AUGUST 15, 1960

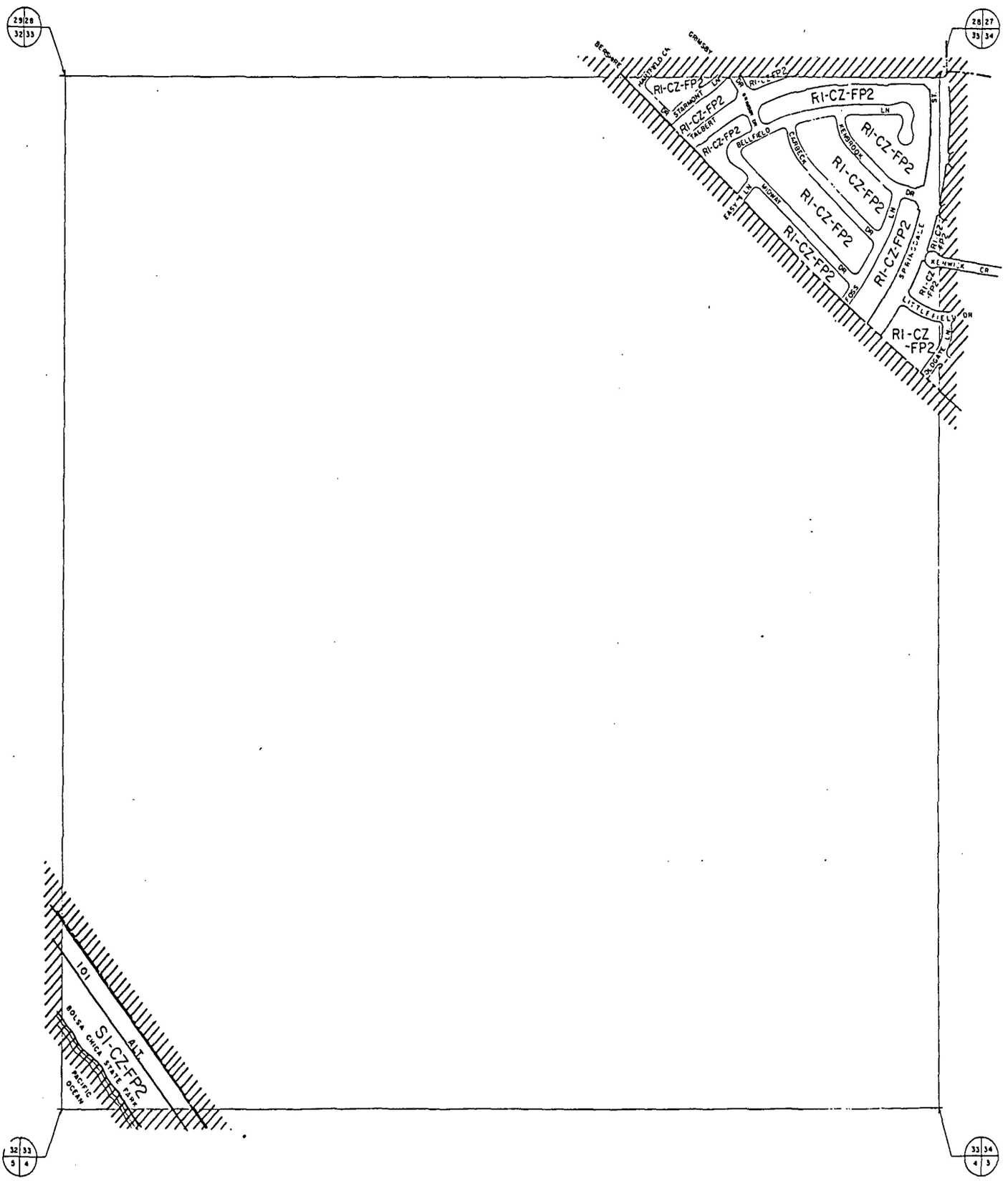
CITY COUNCIL ORDINANCE NO. 785

AMENDED	ZONE CASE	ORD NO	AMENDED	ORD NO.
7-17-71	71-9	1659		
9-15-75	74-5	2010		
7-2-84	84-7	2706		
1-17-83	FLOOD ZONE	2606		

SCALE 0 1000 IN FEET

NOTE:
ALL DIMENSIONS ARE IN FEET
ANY ZONE ADJOINING ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY

LEGEND:
- RI LOW DENSITY RESIDENTIAL DISTRICT
- C4 HIGHWAY COMMERCIAL DISTRICT
- CZ COASTAL ZONE SUFFIX
- SI SHORE LINE DISTRICT
- COASTAL ZONE BOUNDARY
- -FP2 FLOODPLAIN DISTRICT
- WITHIN FLOOD ZONE -FP2



SECTIONAL DISTRICT MAP • 34-5-11

CITY OF HUNTINGTON BEACH

ORANGE COUNTY, CALIFORNIA

ADOPTED AUGUST 15, 1960

CITY COUNCIL ORDINANCE NO. 785

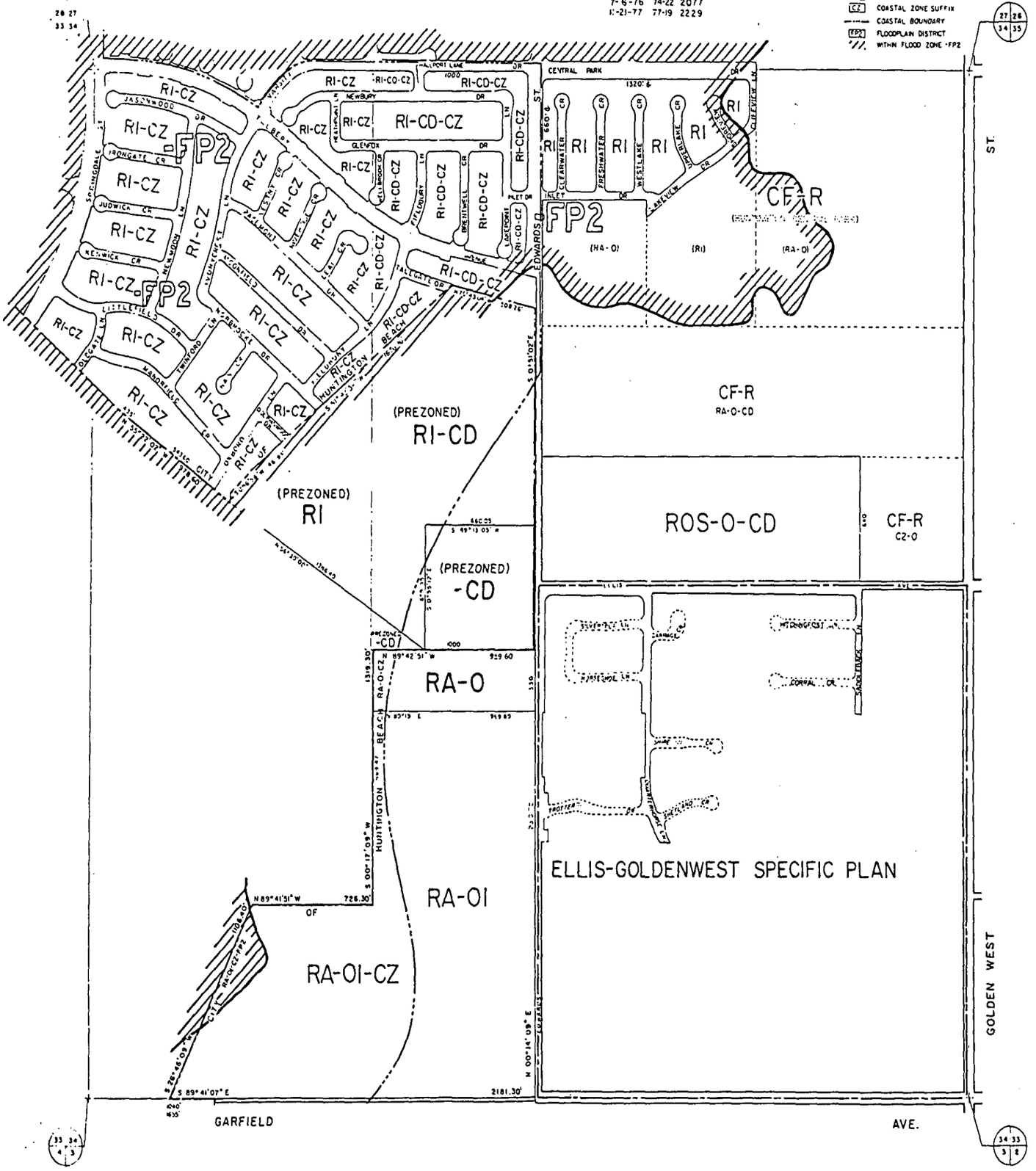
AMENDED	ZONE CASE	ORD NO	AMENDED	ZONE CASE	ORD NO
6-3-63	315	970	1-12-82	81-3	2530
4-5-65	505	1132	1-18-82	81-11	2531
12-5-66	66-49	1271	1-18-82	81-14	2536
2-3-69	68-46	1467	5-3-82	82-2	2553
6-26-70	70-8	1570	4-19-82	82-3	2551
10-19-70	70-10	1606	12-5-83	83-48	2666
7-17-71	71-9	1659	7-2-84	84-7	2706
10-18-71	71-26	1681	10-14-85	85-13(A)	2800
1-17-72	71-17	1709	1-17-83	FLOOD ZONE	2606
2-22-72	71-44	1722	6-6-88	87-12	2944
10-15-73	73-20	1876	6-26-89	89-1	2998
4-7-74	74-22	1977			
9-15-75	74-5	2010			
7-6-76	74-22	2077			
11-21-77	77-19	2229			

SCALE 0 1000 IN FEET

NOTE:
ALL DIMENSIONS ARE IN FEET
ANY ZONE ADJOINING ANY RIGHT OF WAY IS INTENDED TO EXTEND TO THE CENTER OF SUCH RIGHT OF WAY

LEGEND

- RA RESIDENTIAL AGRICULTURAL DISTRICT
- CO COMBINED WITH OIL PRODUCTION
- OH COMBINED WITH OIL PRODUCTION
- R1 LOW DENSITY RESIDENTIAL DISTRICT
- MH LIGHT INDUSTRIAL DISTRICT
- C4 HIGHWAY COMMERCIAL DISTRICT
- C2 COMBINED WITH OIL PRODUCTION
- RC-1R COMMUNITY FACILITIES (RECREATIONAL) DISTRICT
- CO CIVIC DISTRICT
- PD PLANNED DEVELOPMENT
- R3 MEDIUM DENSITY RESIDENTIAL DISTRICT
- LU LIMITED USE
- Q QUALIFIED CLASSIFICATION
- ROS RECREATION OPEN SPACE
- C1 COMMUNITY BUSINESS DISTRICT
- CZ COASTAL ZONE SUFFIX
- COASTAL BOUNDARY
- FP2 FLOODPLAIN DISTRICT
- /// WITHIN FLOOD ZONE "FP2"



Appendix B
Properties of Hazardous Materials

Properties of Hazardous Materials

Material	Physical Properties						Hazard Classification			Exposure Limit	
	Formula	Molecular Weight	Specific Gravity	Flash Point	Boiling Point	Explosive Limits	Health	Flammability	Reactivity	TLV	STEL
Ammonium Bisulfite	NH_4HSO_3	99	1.25 (water = 1)	not flammable	Sublimates @ 130°C	non flammable	3	0	1	UA	UA
Ammonium Hydroxide	NH_4OH	35	0.89 (water = 1)	not flammable	NA	not flammable	UA	UA	UA	1 ppm	100 ppm - 30 min. 500 ppm - 10 min.
Ammonium Thiosulfate	$(NH_4)_2S_2O_3$	148	1.33 (water = 1)	not flammable	50°C	not flammable	UA	UA	UA	25 ppm	NA
Benzene	C_6H_6	78	0.879 (water = 1)	-11°C	80.1°C	1.3-7.1% In air	2	3	0	10 ppm	75 -ppm 30 min.
Decanol	$CH_3(CH_2)CH_2OH$	158	0.8 (water = 1)	88°C	229°C	UA	0	2	0	NA	NA
Ethylene Glycol	CH_2 OH CH_2 OH	62	1.1 (water = 1)	111°C	197°C	3.2% (lower)	1	1	0	50 ppm	NA
Hydrogen Sulfide	H_2S	34	1.2 (air = 1)	-83.8°C	-60.2°C	4-44% in air	3	4	0	10 ppm in air	15 ppm
Natural Gas	NA	NA	0.6-0.7 (water = 1)	482-632°C	UA	3.8-17% in air	1	4	0	Asphyxiant	NA
Pluronic	NA	2000	8.4 lbs/gal	235°C	NA	UA	UA	UA	UA	UA	UA
Propane	C_3H_8	44	1.6 (air = 1)	NA	-42°C	2.1-9.5% in air	1	4	0	Asphyxiant	NA

NA - Not Applicable
UA - Unavailable

Appendix C
Proposed Fire Protection Plan

City of Huntington Beach
2000 MAIN STREET CALIFORNIA 92648

FIRE DEPARTMENT

May 6, 1991

SWEPI
c/o Jim Langer
5060 California
Bakersfield, California 93389

RE: SWEPI PRELIMINARY FIRE PROTECTION PLAN GAS PROCESSING PROJECT

Dear Jim:

The Fluor Daniel Preliminary Fire Protection Plan has been reviewed by the Huntington Beach Fire Department along with Jim Hunt, Hunt Research Corporation. Attached are comments keyed to the report by page number.

I would like to commend you and your staff in preparing such a thorough document. It appears that you have addressed all prior issues of concern. I hope these comments will assist in your final draft as well as the projects successful acceptance for a negative declaration.

If you have any questions regarding this matter, please contact me at the Fire Prevention Division, 714-536-5411 or Jim Hunt, 805-688-4625.

Sincerely,

Mark Bodenbender

Mark Bodenbender
Oil Field Inspector

MB/sr
Attachments
cc: Jim Vincent, Fire Marshal
Richard Grunbaum, Deputy Fire Marshal
Jim Hunt, Hunt Research Corporation

1267f

SHELL WESTERN EXPLORATION & PRODUCTION INC.
HUNTINGTON BEACH
GAS PROCESSING PROJECTS

Dew Point Control Unit
Sulferox Unit/Ground Flare

FIRE PROTECTION PLAN

FLUOR DANIEL

BAKERSFIELD, CALIFORNIA

SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

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6.0	FIRE SUPPRESSION SYSTEM	6
7.0	GAS/FIRE DETECTION AND SHUTDOWNS	6
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SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

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** Documentation/information which will be provided to the City of Huntington Beach Fire Department and it's independent consultant for review.*

*** Items/components/safety systems which will be installed where appropriate and listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.*

SPECIFICATION SP-575701-49-02

FIRE PROTECTION PLAN

1.0 INTRODUCTION/SCOPE

This Plan is provided as supplemental information to the Environmental Assessment for this project. It is intended to document the facility design philosophy, safety systems, fire protection systems, alarms systems, fire detection systems, applicable codes, and approval process once detailed engineering has been completed. This document shall serve as the Fire Protection Plan for this project.

2.0 PROJECT DESCRIPTION

This gas processing project is approximately $10MM of new equipment which will replace existing facilities and which will be consolidated adjacent to SWEPI's recently modernized Tank Farm #1 Oil Dehydration Facility. The primary driving forces are: environmental compliance, emissions reduction, improved safety, reduction in operating expenses, and consistency with the overall City of Huntington Beach, Linear Park Development Project. The project includes three major items:

2.1 Installation of a **Dew Point Control Unit** (DCU), which is a functional equivalent of Shell Western E&P Gas Plant #11. The purpose of this unit is to compress natural gas produced with the associated oil production at this location and to chill the stream to below the hydrocarbon dew point to meet sales gas hydrocarbon and water dew point specifications.

The DCU will have no natural gasoline storage, and all products will be sold via existing pipeline as they are currently being handled and transported.

2.2 The project also includes installation of a **SulFerox Unit** which is a desulfurization unit to replace the existing Stretford Unit. This is a proprietary Shell Oil Company/DOW process which converts hydrogen sulfide to elemental sulfur in a single contacting step. The contacting fluid is non-hazardous and non-flammable.

2.3 An **Emergency Ground Flare**, which will provide a sanitary disposition for natural gas during emergency upset conditions, is also a part of this project. The Ground Flare is of a safe, smokeless, low noise, hidden flame, and environmentally friendly design.

2.4 All product streams, properties, flowrates and temperatures are listed in the Process Flow Diagrams which are attached.

3.0 DESIGN BASIS

3.1 The design for all fire protection, detection and alarm systems shall comply with this specification. All referenced codes, standards, publications and specifications referenced herein shall be a part of this specification.

3.2 The basis of design for the fire protection system at the facility shall be that of a single risk area concept. The facilities shall be divided into separate areas of possible fire involvement, and each area shall be considered as a single risk. The area of the plant requiring the greatest degree of protection shall be classified as the largest single risk area, and the total capacity of the firewater system shall be based on meeting this requirement. The single risk concept assumes only one fire is occurring at any one time.

4.0 RISK ASSESSMENT

⚠2 4.1 HAZOPS (Hazard and Operability Study)*

A Hazard and Operability Study (HAZOP) will be conducted on this project. The study will include a team of engineers, specialists, operators, independent third party consultant, and outside registered professional engineers who will go through the detailed design line by line, item by item, to validate the inherent safety system built into the design of each component.

The Fire Department and its consultant are invited to participate in the HAZOP process.

Additionally, a series of API 14C Safe Charts will be developed for each major system, API 14-C is the recommended practice for analysis, design, installation and testing of basic surface safety systems on offshore production platforms.

The results of these HAZOP and API 14C Safe Charts will be submitted to the Fire Department for their review.

4.2 Toxic and Flammable Dispersion Modeling*

The results of these dispersion modeling which will be done by a third party consultant will be submitted to the Fire Department for their review. All criteria and modeling assumptions will be submitted with the model results.

△2 4.3 Hazardous Materials/MSDS List*

Material Safety Data Sheets are kept physically on the lease. On site are located a full volume of MSDS Sheets for review as per OSHA requirements. MSDS sheets will be added and updated as required by OSHA and in conjunction with this project.

5.0 FIRE PROTECTION CONCEPTS

The facility depends on early hazard detection and the ability of plant personnel to contain a flammable liquid fire and/or a high pressure flammable gas fire with fixed and portable fire fighting equipment.

All detailed plans for the Fire Protection System, equipment types and locations will be submitted to the Fire Department for approval. This shall occur during the request for the project building permits.

△2 All fire protection equipment shall be listed where equipment having such listings are available. The Fire Department will allow the applicant to propose reasonable alternatives and solutions which assure equal safety to life and property when strict compliance with listings or approvals are not reasonably attainable.

5.1 Firewater System**

2 5.1.1 Fixed firewater monitors shall be located adjacent to the process areas, pipeways, equipment, and elevated structures. Fixed monitors shall be 40 feet to 50 feet from equipment to be protected. Approximate spacing between monitors should be 150 feet. Each monitor should be capable of producing at least the minimum flow requirements to meet Fire Department standards.

2 5.1.2 Firewater hydrants with pumper connections shall be installed around the perimeter of the facility. Hydrant spacing in the system shall allow easy access for fire truck operation while maintaining minimum exposure to personnel. The firewater supply source shall have the capability of delivering a minimum four hour supply to the fire pump suction inlet. Hydrants should have a minimum flow as required by Fire Department standards. Hydrant spacing should be approximately 250-300 feet apart on roads and approximately 40-50 feet from equipment to be protected.

2 5.1.3 Hose reels and hose carts shall be installed along pipe racks, and process area. Fixed wet hose reels shall contain 100 feet of 1-1/2 inch hard line booster fire hose with an adjustable fog nozzle having a capacity of 125 gpm.

2 5.1.4 The firewater supply system shall consist of firewater mains, laterals, and isolation block valves to provide the required firewater flows to each "fire loading" area, even though one section of the system is shut in for maintenance or repairs. Post indicator valves shall be used for sprinkler or deluge systems.

5.1.5 The firewater system includes piping, fittings, valves, hydrants, water monitors, hose reels, hose hydrants, and stub-up connections for firewater spray systems.

5.1.6 A firewater transposition drawing showing the total fire protection system piping shall be prepared for approval by authorities having jurisdiction.

5.1.7 The minimum pipe size for firewater mains and hydrant branch lines shall be six (6) inches.

5.1.8 All new underground carbon steel pipe shall be outside coated and wrapped. Field joints shall be coated and wrapped after assembly and hydro-test. All buried piping shall be cement-lined for internal corrosion protection. All new above ground piping shall be exterior painted and internal lined. Any existing firewater piping shall be externally protected.

5.1.9 Hydrants, monitors, valve pits (boxes, etc., shall be located a minimum of three feet from the edge of the road shoulder. Where a shoulder is not provided, this distance shall be five feet from the edge of the road. Four (4) guard posts shall be provided for distances less than 10 feet from the edge of the road and where maintenance vehicles may be operating. Hydrants or approved hose manifolds shall be used for truck and hose connections.

5.1.10 General information for laying piping systems, installation of and requirements for thrust blocks, valve pits (boxes), and appliances such as hydrants and water monitors shall be in accordance with NFPA 24.

5.1.11 The duration of the required firewater flow shall be 4 hours, as per the NFPA Code.

5.2 Firewater Pumps**

△2 5.2.1 The fire protection engineer shall verify that the new or existing firewater pumps are capable of delivering firewater flow rates to the largest user, and meet the designed water flow requirements at each fire protection system. The flow rate shall meet the minimum flow requirements as determined by Fire Department standards.

⚠2 5.2.2 The fire pumps shall delivery the required flow rates to all areas of the facility at a pressure of approximately 100 psi at the base of the fire fighting appliance and a minimum of 60-70 psi at the inlet side of all water spray system operation valves. Firewater pumps shall be designed to meet NFPA 20 and provide for redundant pump with required capacity as per NFPA 20. Appropriate tie-ins to water supply will be determined. Pumps shall be remotely located in an approved covered shelter.

An evaluation of the need for firewater pumps and tanks will be performed in conjunction with the Fire Department to determine if adequate flow and duration can be supplied with only a looped system.

6.0 FIRE SUPPRESSION SYSTEM**

6.1 Portable hand held fire extinguishers shall be installed in all areas of the facilities. The extinguishing agent shall be compatible with the class of fire to be encountered.

⚠2 6.2 Foam systems may not be required in the scope of this project. See Appendix A for quantity of foam already stored on site.

6.3 A water spray deluge system shall be provided for areas as required.

⚠2 6.4 Hose reels and hose carts shall be provided throughout the plant for easy access and emergency use.

7.0 GAS/FIRE DETECTION AND SHUTDOWNS**

7.1 The area UV/IR flame detectors and vapor/gas alarm systems shall be monitored at the Local Control Room and/or the Central Control Room and shall shut down plant upon alarm.

7.2 Combustible vapor/gas sensors shall be installed in critical outdoor areas. The gas sensors shall monitor the level of hydrocarbon/ air mixture and/or hydrogen sulfide.

7.3 Manual ESD stations shall be provided in the areas of egress.

7.4 A detail of the alarm and shutdown system wiring hardware and design will be submitted for approval at submittal of building permits.

7.5 ESD valves are located on the plant inlet and outlet limits and, upon actuation, all plant gas feeds will be blocked in and diverted to the flare.

7.6 All detectors causing ESD shutdowns will be crossed checked to minimize false shutdowns. Audible and visible alarms will be provided in each control room. Any detection of hydrocarbon or flame detection will initiate an alarm requiring operator initiation of ESD. The cause of the ESD will be alarmed and listed in the control rooms on a first out basis. Annunciation of an ESD will be alarmed on the fire control panels at the plant entrances.

⚠2 7.7 A fire control alarm panel will be located at each plant entrance (2 entrances) to inform the Fire Department of cause and area of alarm.

8.0 FIRE PROTECTION SYSTEMS**

8.1 SulFerox Unit Area

⚠2 8.1.1 The SulFerox units contain hydrogen sulfide and hydrocarbons. Self-contained breathing apparatus and safety showers and eyewash stations shall be provided for this area.

8.1.2 Structural steel supporting vessels shall be fireproofed according to UL 1709. The fireproofing shall be capable of meeting a 2 hour UL 1709 fire rating.

8.1.3 Fixed water monitors shall be installed in the area to protect all equipment.

8.1.4 Hydrants for manual firefighting and fire truck pumper application shall be located in the area.

8.1.5 Hose reels and portable dry chemical extinguishers shall be strategically located in the area.

8.1.6 The sulfur product consists of a 40 percent water, wet sulfur cake which is non-hazardous and will be stored in approved DOT containers.

8.2 Dew Point Control Unit, Knockout Drums, Stabilizer Skid, Pipeways, Glycol Unit and Pumps

8.2.1 This area shall be protected by fixed water monitors to cover equipment, vessels and pipeways.

8.2.2 Combustible vapor/gas sensors and UV/IR flame detectors shall be installed. Vapor/gas readout from 0 to 100 percent of LEL shall be monitored at the alarm panels located in the Local Control Room and Central Control Room. The vapor/gas sensors shall provide visual and audible alarm at 25 percent and 40 percent of LEL.

8.2.3 Hydrants for manual firefighting and fire truck pumper application shall be located in the area. Required hose shall be on fire hose carts and/or fire trucks.

8.2.4 Hose reels and portable dry chemical fire extinguishers shall be strategically located in the area.

8.3 Gas Compressors and Lube Oil skids in the Compressor Building

8.3.1 Gas compressors, refrigeration compressors, and lube oil console shall be protected by an automatic water spray deluge system discharging at a rate of 0.5 gpm/sq. ft. Fixed temperature pilot heads (165°F) shall be installed in the protected area for actuation of the deluge system. A manually actuated release station shall be provided with the system riser.

8.3.2 The area UV/IR flame detectors and vapor/gas alarm systems shall be monitored at the Local Control Room and/or the Central Control Room and shall shut down plant upon alarm.

△2 8.4 Local Control Room

The Local Control Room interior shall be maintained under positive air pressure to prevent combustible vapor/gas from contaminating the area. The local control room is located upwind and away from the process area and will only be partially attended. The remote control room (1000 feet away) will be attended 24 hours per day. H_2S detections will be added to the building HVAC. Smoke detection will be provided. Adequate building protection will be provided for plant personnel and equipment.

8.5 Substation and Transformers

Substation buildings shall be located in electrical non-classified, non-hazardous area.

9.0 ELECTRICAL AREA CLASSIFICATION**

9.1 Electrical equipment installed in classified hazardous areas shall be approved for use in the specific atmosphere as outlined in the NFPA 70, National Electric Code, API RP500A, and Uniform Fire Code.

9.2 The Area Classification drawings for the Gas Processing Project will be submitted for review.

△2 10.0 FIRE PROOFING OF VESSELS AND STRUCTURAL STEEL**

10.1 Fireproofing of structural steel pipeways and vessel skirts shall be provided in areas where equipment handling liquid hydrocarbons are located. Steel structures supporting elevated equipment shall be fireproofed regardless of location.

10.2 Fireproofing material shall be protected against mechanical damage, thermal shock, and environmental conditions and shall have resistance to hydrocarbons and sulfuric acid fumes.

The types of fireproofing to be used shall have a fire resistance rating of two (2) hours in accordance with UL 1709 Rapid Rise Curve.

11.0 CRITICAL CABLE PROTECTION*

Control systems cabling for ESD will be protected by locating them underground.

12.0 DRAINAGE AND CONTAINMENT**

12.1 Drainage of firewater from the plant area shall be by swales, trenches, catch basins, or sheet flow to a remote impounding area. Path of drainage shall be designed to allow vapors to dissipate in the atmosphere. Vapor clouds resulting from liquid spills which are slow to vaporize may be dispersed with water spray application. Drainage and containment shall comply with Uniform Fire Code, Articles 79 and 80.

12.2 Open drainage systems to the oily water system shall be provided to prevent combustible vapor/gas spills from entering the storm water drainage system. Firewater or flammable liquids shall not be allowed to accumulate under pipeways, vessels, pumps, or equipment handling hydrocarbons.

13.0 ACCESS ROADS**

A plot plan showing all access and surrounding roads is attached. A plot plan with monitor and hydrant locations will be supplied at a later date. Knox locks and Knox map boxes shall be provided at each entrance. Appropriate pre-plan information will be provided at each location.

14.0 OFF-SITE MONITORING AND PROTECTION OF THE PUBLIC*

14.1 The site is currently protected at the perimeter wall by a hydrogen sulfide gas detection system.

△2 14.2 Refer to the HAZOP results to insure elimination of all risks.

15.0 LOCATION AND SEPARATION OF EQUIPMENT (SITE LAYOUT)**

15.1 A plot plan is attached for your review. the Fire Department may review the plot plan and make recommendations as to equipment spacing and plant layout, as per the applicable codes.

15.2 The plant layout shall maximize equipment separation to reduce the propagation of fire to adjacent areas.

16.0 EQUIPMENT, SYSTEM AND PROCESS SAFETY, MONITORING AND SHUTDOWNS*

Copies of the API 14C Safe Charts will be provided for your review. The HAZOPS documentation will be completed and reviewed with the appropriate fire department personnel.

△2 17.0 EMERGENCY RELIEF SYSTEMS**

17.1 Emergency relief systems will be provided and will have a rupture disk below the relief valve. The rupture disk will be equipped with an electronic tattle tale to alert the control room as to the location of the device relieving in the facility.

17.2 Pressure relief/venting systems shall be provided for equipment subject to internal pressure buildup from an external source of heat, as defined in API 14C System Evaluation.

18.0 CONTROL ROOM PROTECTION

The Central Control Room is an existing structure. The Local Control Room is addressed in Section 8.4. The Central Control Room will have full capabilities to operate the plant from a remote location. The Central Control Room will have the same safety monitoring and shutdown capabilities as the Local Control Room.

△2 19.0 EMERGENCY POWER

Currently, there is no provision for total plant emergency power. The facility will be designed for fail-safe shutdown in the event of a power loss. The oil field is currently electrified, and, if a loss of power should occur, the field is shutdown so that incoming oil, gas, and water production is shutdown. A UPS system is provided for power back-up of all

electronic computer control systems which will initiate and complete a safe ESD. Battery power back up will be provided for fire detection panels and annunciation.

20.0 PORTABLE FIRE, SAFETY AND MONITORING EQUIPMENT**

20.1 Self-contained breathing apparatus (SCBA) shall be provided in strategic areas.

20.2 Safety showers shall be installed in the areas where eye or skin irritating material is stored or handled.

21.0 EMERGENCY RESPONSE PLAN*

An Emergency Response Plan exists for the SWEPI Huntington Beach facility. Appropriate modifications to the Plan will be made to incorporate the modified facility.

⚠2 22.0 ONGOING INSPECTION, SAFETY, MAINTENANCE AND QUALITY ASSURANCE PLAN*

A copy of the safety, training and quality assurance manuals can be made available for review. These manuals cover all of the above 22.0 subject areas.

23.0 WORKER SAFETY AND TRAINING PROGRAM*

The current worker Safety and Training Programs can be reviewed with the local Safety/Training Coordinator located at the Huntington Beach lease.

24.0 SITE SECURITY PLAN*

The Huntington Beach site is under 24 hour guard and security. All access is limited at the entrance gates. The new plant facility is within the secured site and will have 24 hour operator attention.

25.0 HAZARD IDENTIFICATION METHODS (LABELING, ETC.)*

All stored materials will be properly labeled as per the NFPA, and Uniform Fire Code placard requirements.

26.0 HAZARDOUS MATERIALS MANAGEMENT PLAN*

The Shell Hazardous Materials Business Plan has been submitted to the Fire Department for their records. Included in the Plan are response and inventory procedures as required by SARA Title III. The Plan will be modified to accommodate the new facility.

27.0 SITE AND EQUIPMENT ABANDONMENT PLAN**

A proposal from Fluor Environmental for the abandonment of the existing plant site is attached. SWEPI is the lessee and will return the land to the lessor in accordance with its lease obligations and any Local, State or Federal regulations which may apply. The proposal outlines the appropriate testing, agency notification, remediation and closure approvals.

28.0 APPLICABLE CODES AND STANDARDS

National Fire Protection Agency (NFPA)

NFPA 10	Portable Hand Extinguishers
NFPA 11	Foam Extinguishing Systems
NFPA 13	Sprinkler System Installation
NFPA 14	Standpipe and Hose Systems
NFPA 15	Water Spray, Fixed Systems
NFPA 16	Foam Systems (if required)
NFPA 20	Installation of Centrifugal Firewater Pumps
NFPA 22	Water Tanks for Private Fire Protection
NFPA 24	Outside Protection-Private Fire Service Mains and Their Appurtenances
NFPA 26	Supervision of Valves Controlling Water Supplies for Fire Protection
NFPA 30	Flammable and Combustible Liquids Code
NFPA 54	National Fuel Gas Code

NFPA 58	Storage and Handling of LPG
NFPA 69	Explosion Prevention Systems
NFPA 70	National Electric Code
NFPA 72	Protective Signaling System
NFPA 72E	Automatic Fire Detectors
NFPA 77	Static Electricity
NFPA 80A	Protection from Exposure Fires
NFPA 101	Life Safety Code
NFPA 325M	Properties of Flammable Liquids, Gases, Solids
NFPA 1961	Fire Hose
NFPA 1962	Care and Use of Fire Hose
NFPA 1963	Fire Hose Connections
NFPA 1981	Self Contained Breathing Apparatus for Fire Fighters

Uniform Fire Code

City of Huntington Beach, Title 15

CAL OSHA

State Fire Marshal Listings

API 14C

Design of Safety Systems

API 520

Design of Pressure Relieving Systems

API 521

Guide for Pressure Relief Systems and Depressuring Systems

API 750

Management of Process Hazards

29.0 PLAN SUBMITTAL AND APPROVAL PROCESS

29.1 Items highlighted by a single asterisk (*) are information/specifications which will be provided for review, but not approval, of the City of Huntington Beach Fire Department and it's independent consultant. Items highlighted by a double asterisk (**) are items/components/safety systems which will be installed where appropriate and are listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.

29.2 SWEPI agrees to comply with safety requirements as listed in the appropriate codes and standards section. High safety standards are important to SWEPI; however, should a disagreement arise between the independent consultant and SWEPI on a particular safety issue, SWEPI reserves the right for the City of Huntington Beach Fire Department to consider design systems provided which are in SWEPI's/Fluor Daniel's opinion "as safe as" those required by the recommendations of the independent consultant.

30.0 FIVE YEAR UPGRADE PROGRAM FOR TANK FARM #1 (MODERNIZED OIL DEHYDRATION FACILITIES)*

SWEPI agrees to submit a plan for an upgrade to the fire protection systems at the Modernized Tank Farm to be completed prior to 1996. The project description and schedule will be submitted the City of Huntington Beach Fire Department by the end of second quarter 1992. The plan for the fire protection system upgrade will be in accordance with this specification and codes within this document. A separate Fire Protection Plan will be submitted for the Tank Farm and will be similar to this Gas Plant Fire Protection Plan.

** Documentation/information which will be provided to the City of Huntington Beach Fire Department and it's independent consultant for review.*

*** Items/components/safety systems which will be installed where appropriate and listed on specifications, and drawings which will need to be approved by the City of Huntington Beach Fire Department prior to issuing building permits.*

When approved by the Huntington Beach Fire Department, this document shall serve as the official Fire Protection Plan for the SWEPI Gas Processing Project facility at Golden West Blvd. and Pacific Coast Highway.

APPROVED BY:

J. A. Thum for J. A. Ruhl Date 7/11/91
Authorized Agent for:
Shell Western E&P, Inc.

_____ Date _____
Huntington Beach Fire Department

APPENDIX A

ON SITE STORAGE

300 gallons of 3% Ansul foam concentrate.

MUTUAL AID STORAGE

4,500 gallons of 3% Ansul foam concentrate located at Wilmington Manufacturing Complex.

Appendix D
Proposal for Closure Plan and Investigation
Gas Plant #11

The following proposal for a Closure Plan and Investigation is a representative plan received from Fluor Daniel and other contractors. The actual Closure Plan and Investigation will be submitted to the appropriate agencies for their approval at a later date.

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

TO File
ok 12/23/97

December 16, 1997

Michael Klancher
Aera Energy
5060 California Avenue
P.O. Box 11164
Bakersfield, CA93389-1164

Subject: Partial Closure: TPH- and PCB-Impacted Soil

Re: Aera Energy (formerly CalResources)
Huntington Beach Gas Plant # 11
Seapoint Avenue (at Garfield)
Huntington Beach, CA 92648
OCHCA Case # 90IC33

Dear Mr. Klancher:

This letter confirms the completion of remedial action for the subject soil at the above-referenced site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time. It is understood that ongoing remedial activities will continue to address contamination within the deeper soil and the shallow groundwater zone.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above-referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of TPH, TRPH and PCBs and the potential for residual contamination to cause further groundwater contamination at this site was discussed with Ray Akhtarshad of the Santa Ana Regional Water Quality Control Board. Regional Board staff concurred that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is

the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Sincerely,

Karen L. Hodel

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Management Section
Environmental Health Division

KLH:LL:

cc: Ray Akhtarshad, Santa Ana Regional Water Quality Control Board
Duc Nguyen, Orange County Environmental Management Agency
Tim Greaves, Huntington Beach Fire Department
William B. Henry, The Park Corporation
William J. Diekmann, O.C. Supervising Hazardous Waste Specialist

APPENDIX C

SITE RECONNAISSANCE CHECKLIST AND PHOTOGRAPHS

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Site Reconnaissance Photographs

Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	1

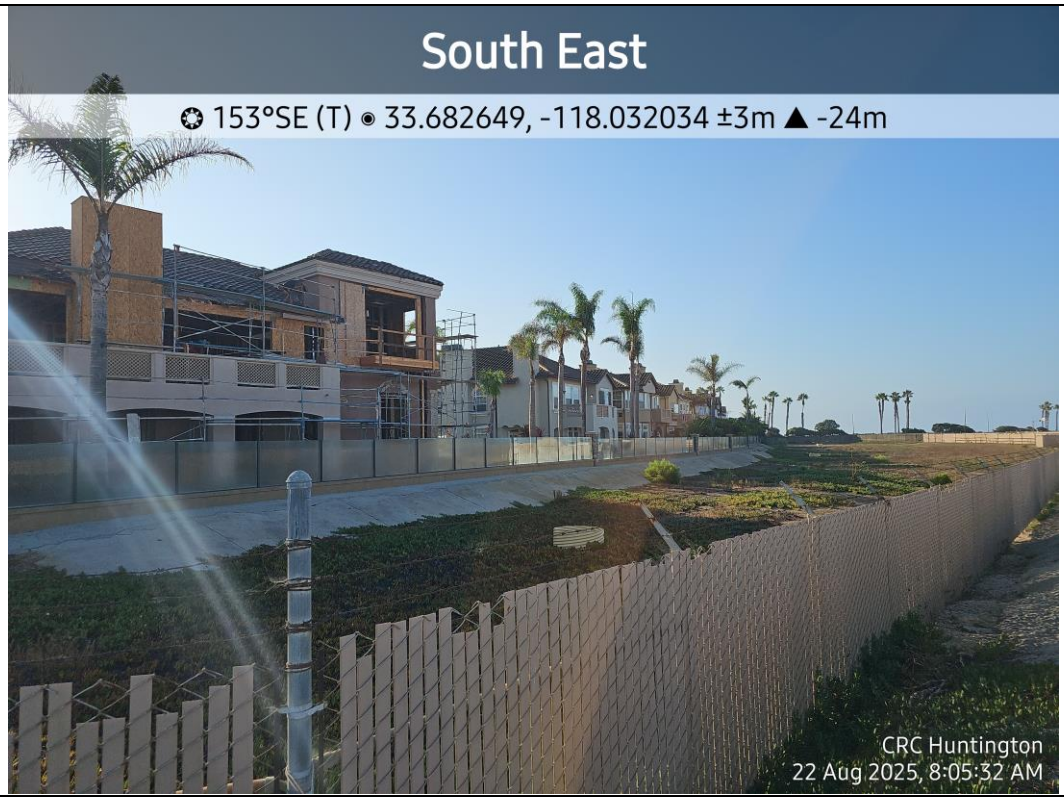
Direction Photo Taken:

Southeast

Description:

Southern view from the northern property line. Western property line (chain-link fence) visible. Yellow stormwater drain visible in the center of the property.

East adjoining properties (residential) visible in the background of the photograph.



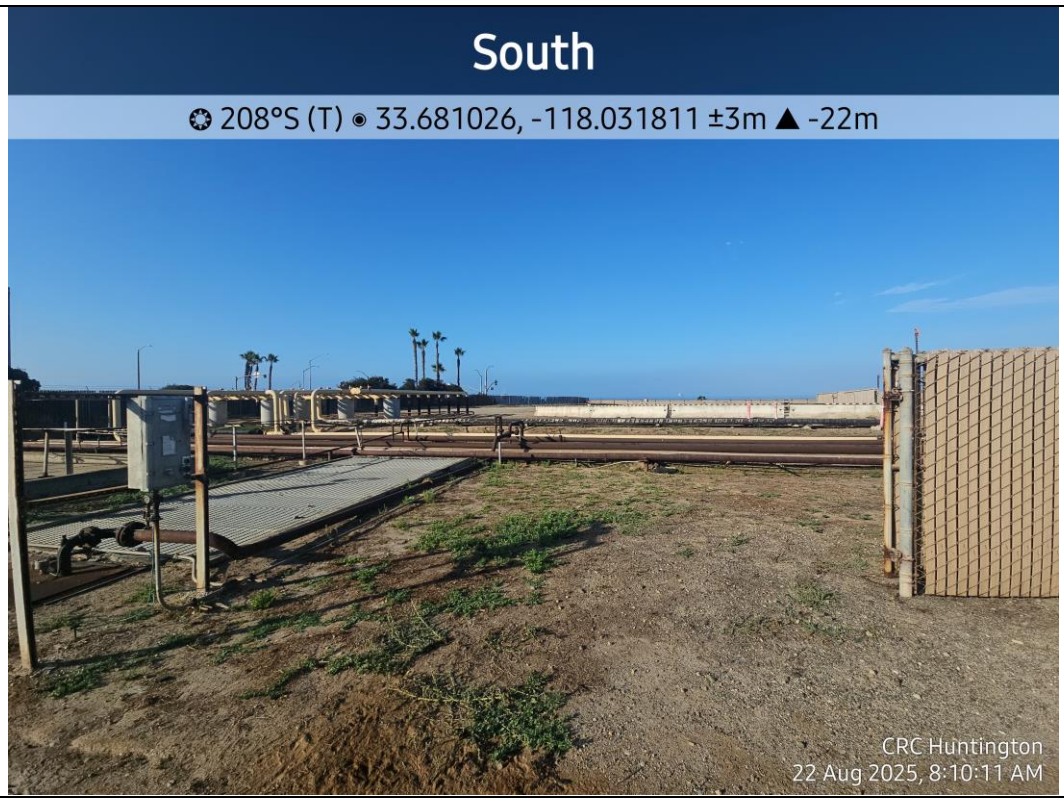
Date	Photo No.
22 Aug 2025	2

Direction Photo Taken:

South

Description:

Flow lines from the State Lease, north of Seapoint Street.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	3

Direction Photo Taken:

Northwest

Description:

Chase 1 – Flow lines entering the subject property south of Seapoint Street.



Date	Photo No.
22 Aug 2025	4

Direction Photo Taken:

Southeast

Description:

Oily staining surrounding the electrical component of the demolished Former Stretford Unit.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	5

Direction Photo Taken:

South

Description:

Pit 1 – currently used as stormwater collection for "dirty" water to be used for reinjection.



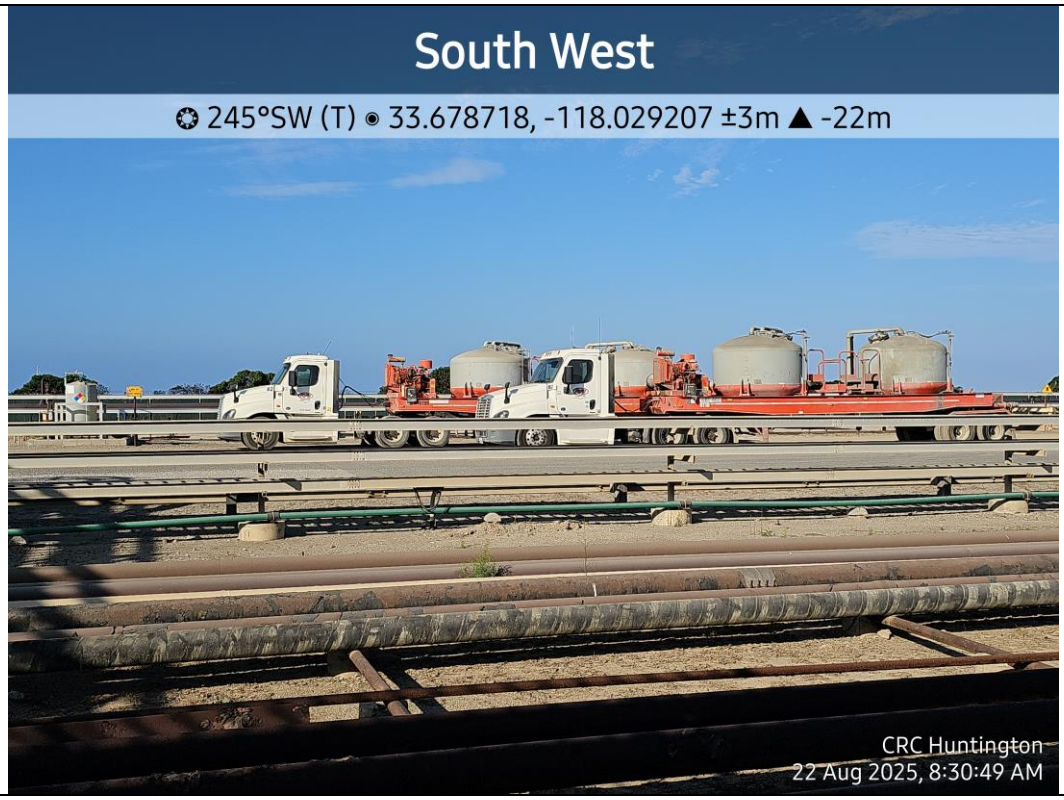
Date	Photo No.
22 Aug 2025	6

Direction Photo Taken:

Southwest

Description:

Concrete trucks used for well abandonment.



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Site Reconnaissance Photographs

Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	7

Direction Photo Taken:

West

Description:

Northwest Historical Tanks area of investigation.



Date	Photo No.
22 Aug 2025	8

Direction Photo Taken:

Southeast

Description:

Former oil well. Oily water observed in the interior of the cellar.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	9

Direction Photo Taken:

Southeast

Description:

Representative photo of the chemical stations scattered throughout the subject property. Tote is located within secondary containment without obvious signs of leaking.



Date	Photo No.
22 Aug 2025	10

Direction Photo Taken:

Southeast

Description:

Previous location of the Former Stretford Unit. Demolished in 2025.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	11

Direction Photo Taken:

Northwest

Description:

Gas scrubbers, located near the Former Stretford Unit.



Date	Photo No.
22 Aug 2025	12

Direction Photo Taken:

West

Description:

Platform Emmy chemical storage area. Observed leaking lubricant and accompanying odor.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	13

Direction Photo Taken:

West

Description:

Overall view of the Platform Emmy chemical storage area.



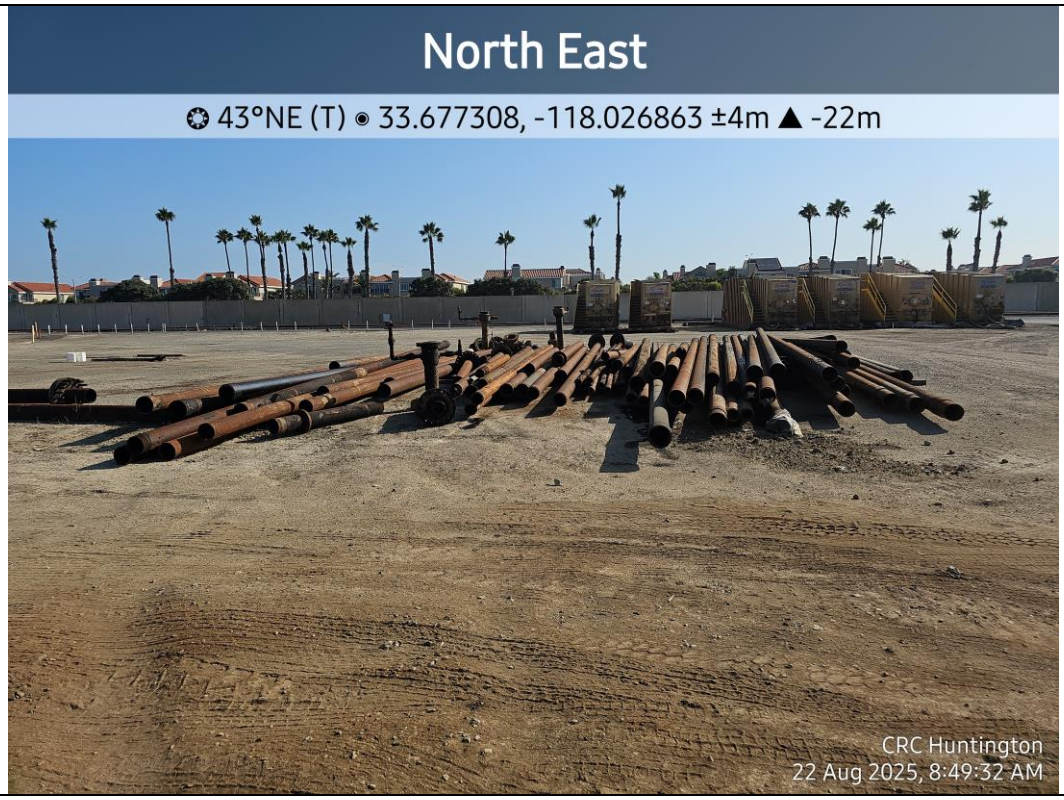
Date	Photo No.
22 Aug 2025	14

Direction Photo Taken:

Northeast

Description:

Overall view of the pipeline laydown area.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	15

Direction Photo Taken:

Southeast

Description:

Active oil leaking out of the staged pipelines in laydown area.



Date	Photo No.
22 Aug 2025	16

Direction Photo Taken:

Southeast

Description:

Oily staining on the soil of Chase 1.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

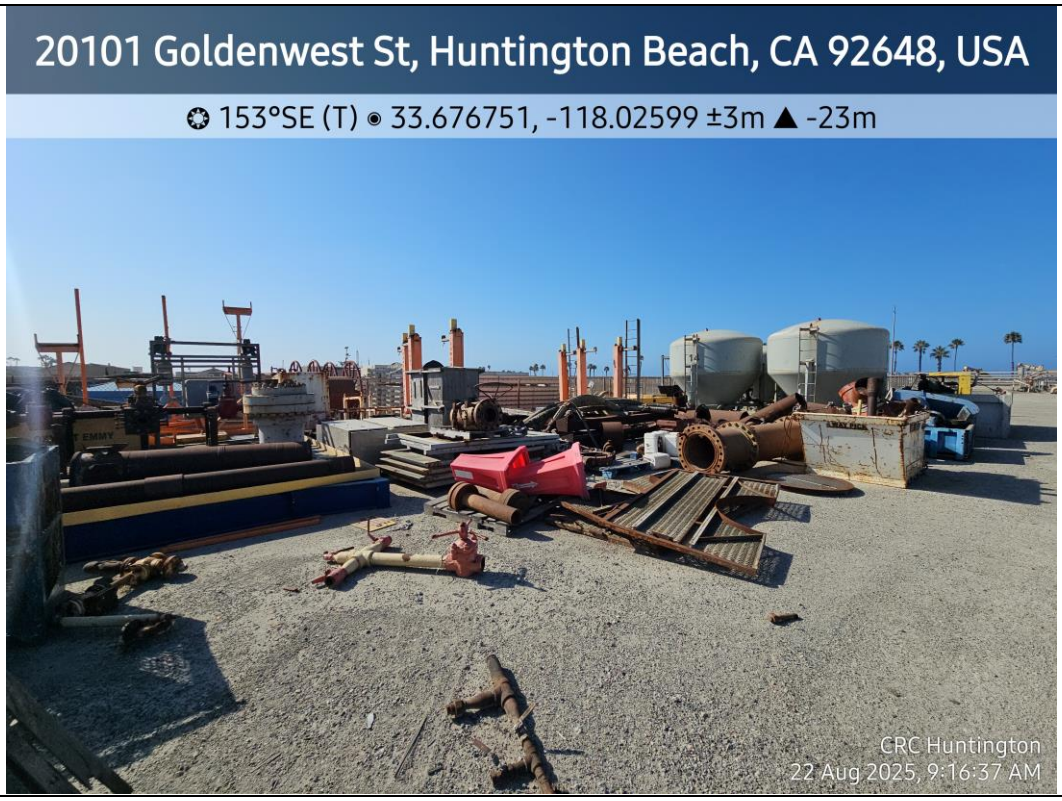
Date	Photo No.
22 Aug 2025	17

Direction Photo Taken:

Southeast

Description:

Storage area located north of the pipeline laydown area.



Date	Photo No.
22 Aug 2025	18

Direction Photo Taken:

South

Description:

Interior of the Maintenance Building.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	19

Direction Photo Taken:

Northwest

Description:

Truck wash attached to the Storage Warehouse.



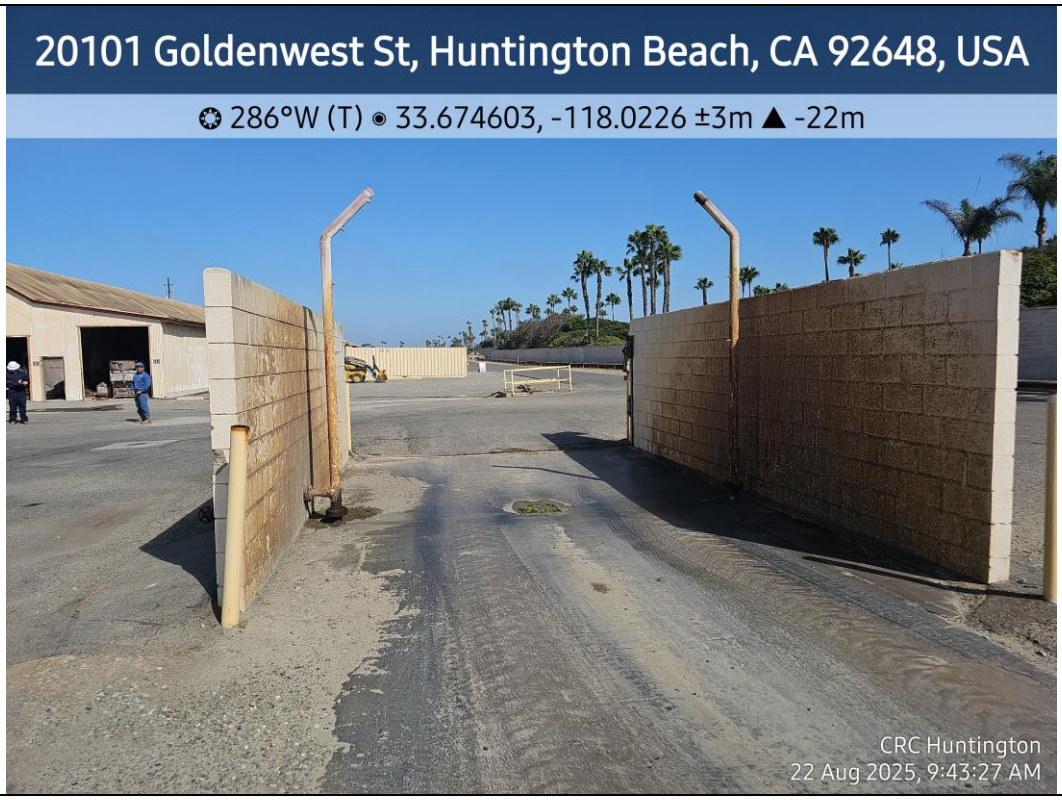
Date	Photo No.
22 Aug 2025	20

Direction Photo Taken:

West

Description:

Truck house-down area located to northeast of the truck wash.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	21

Direction Photo Taken:

South

Description:

Main Chemical Storage area.



Date	Photo No.
22 Aug 2025	22

Direction Photo Taken:

North

Description:

Diesel fuel portable power station to charge batteries. Staining observed under the power station.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	23

Direction Photo Taken:

South

Description:

450-gallon diesel AST in the Main Chemical Storage Area. Staining observed within the secondary containment and on with concrete surrounding the AST.



Date	Photo No.
22 Aug 2025	24

Direction Photo Taken:

Southeast

Description:

Staining observed on the concrete surrounding the secondary containment of the 450-gallon diesel AST.



LANGAN	Site Reconnaissance Photographs	
Client Name: California Resources Corporation	**Subject Property Location:** 20101 Goldenwest St, Huntington Beach, CA	**Project No.** 700152701

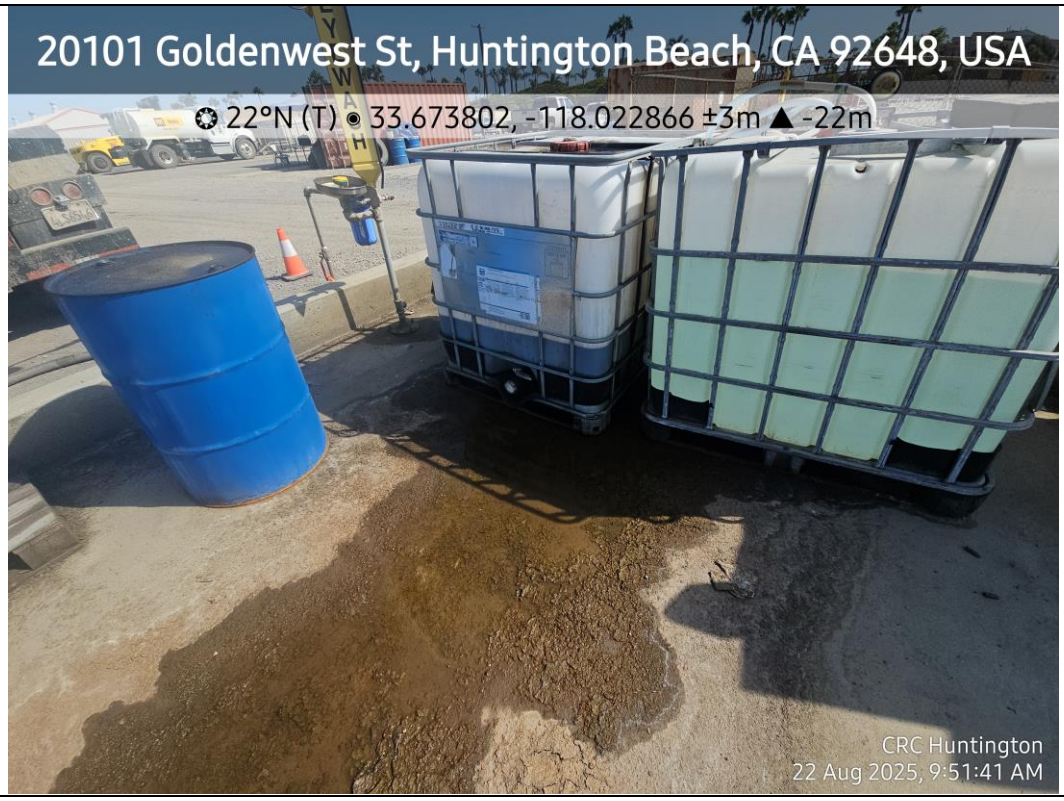
Date	**Photo No.**
22 Aug 2025	25

Direction Photo Taken:

North

Description:

Observed release from tote containing diesel exhaust fluid in the Main Chemical Storage Area.



Date	**Photo No.**
22 Aug 2025	26

Direction Photo Taken:

Northwest

Description:

Drums of motor oil, coolant, and triethylene glycol in the Main Chemical Storage Area.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	27

Direction Photo Taken:

South

Description:

Motor oil on secondary containment in the Main Chemical Storage Area. Drums appeared to be intact; however, fluid collection observed within the secondary containment with sheen and oily buildup.



Date	Photo No.
22 Aug 2025	28

Direction Photo Taken:

South

Description:

Likely diesel tank within secondary containment. Staining and fluid observed on the surrounding concrete of the Main Chemical Storage Area.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	29

Direction Photo Taken:

East

Description:

Partially full poly totes, both within and not within secondary containment. Staining observed on the surrounding concrete of the Main Chemical Storage Area.



Date	Photo No.
22 Aug 2025	30

Direction Photo Taken:

East

Description:

Portion of the Natural Gas Production Facility – amine coolers.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	31

Direction Photo Taken:

North

Description:

Portion of the Natural Gas Production Facility – flare offs



Date	Photo No.
22 Aug 2025	32

Direction Photo Taken:

Southwest

Description:

Building foundation for the Former Chemical Laboratory.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	33

Direction Photo Taken:

Southwest

Description:

Skim oil and produced water tank.



Date	Photo No.
22 Aug 2025	34

Direction Photo Taken:

South

Description:

Crude oil storage tanks.



Date	Photo No.
22 Aug 2025	35

Direction Photo Taken:

Northwest

Description:

Skim tanks.



Date	Photo No.
22 Aug 2025	36

Direction Photo Taken:

East

Description:

Drain tanks for produced water.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

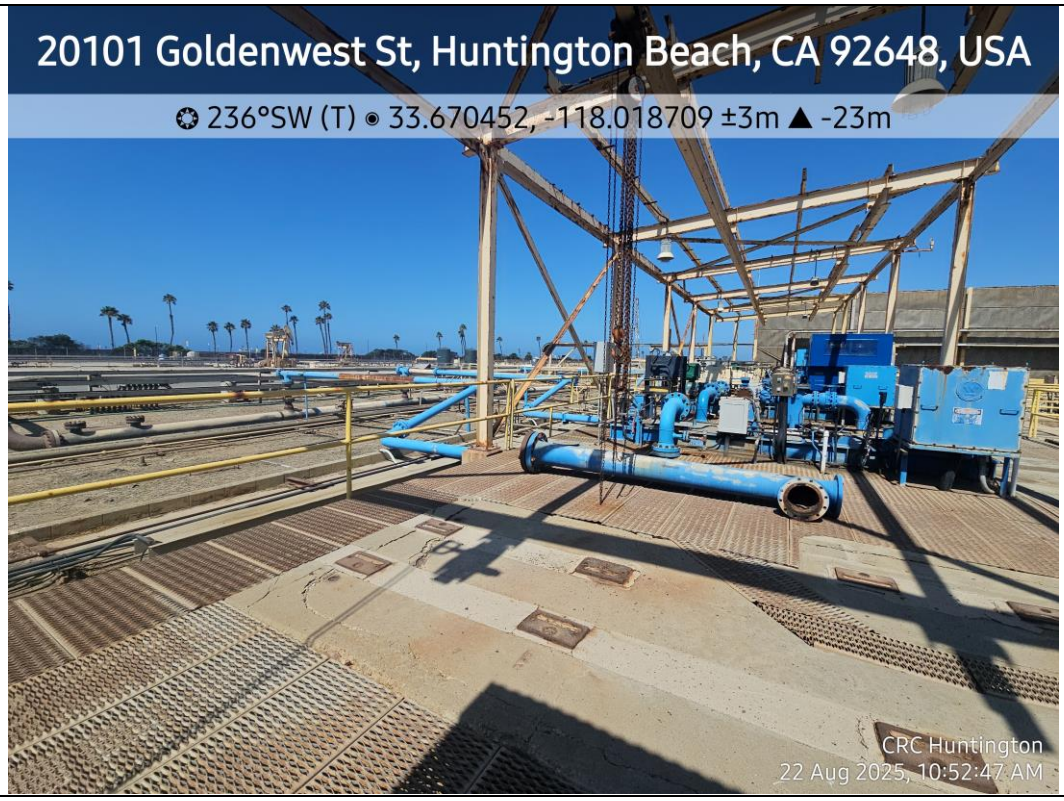
Date	Photo No.
22 Aug 2025	37

Direction Photo Taken:

Southwest

Description:

Produced water injection pumps.



Date	Photo No.
22 Aug 2025	38

Direction Photo Taken:

Northwest

Description:

AFFF fire suppression tank.



Client Name:	Subject Property Location:	Project No.
California Resources Corporation	20101 Goldenwest St, Huntington Beach, CA	700152701

Date	Photo No.
22 Aug 2025	39

Direction Photo Taken:

North

Description:

Diesel-powered fire suppression system located in the southeastern portion of the subject property.



Date	Photo No.
22 Aug 2025	40

Direction Photo Taken:

Northeast

Description:

Historical steam generator foundations located in the southernmost stormwater detention pond.



APPENDIX D

USER PROVIDED INFORMATION

Clear Form

ASTM E1527-21 User Questionnaire

Please complete the below form and return to Langan.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the Landowner Liability Protections (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. Additional information should be provided for "Yes" answers where relevant.

General Information

User/Client Names: California Resorces Corporation

Reason for the Phase I ESA: Environmental due diligence

Type of property: Oil and Gas lease

Type of property transaction (e.g. sale, purchase, exchange): Redevelopment

Subject property address (provide documentation of subject property boundary):

20101 Goldenwest Street Huntington Beach, California

Site Contact and Contact Information: Hugo.DeLaLlave@crc.com

Relying Party(ies):

Required Information

(1.) Environmental liens that are filed or recorded against the subject property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ◉

(2.) Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property (40 CFR 312.26(a)(1)(v) and (vi)).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

Yes ◉ No ○

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ◉ No ○

(4.) Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this subject property reasonably reflect the fair market value of the subject property?

Yes ○ No ○

NA Property not selling

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

Yes ○ No ○

(5.) Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30).

	Yes	No
Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	◉	○
For example,	Yes	No
(a.) Do you know the past uses of the subject property?	◉	○
(b.) Do you know of specific chemicals that are present or once were present at the subject property?	◉	○
(c.) Do you know of spills or other chemical releases that have taken place at the subject property?	◉	○
(d.) Do you know of any environmental cleanups that have taken place at the subject property?	◉	○

(6.) The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

	Yes	No
Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?	◉	○
Do you have knowledge or experience with the subject property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition)?	◉	○

(7.) Proceedings Involving the Subject Property Questions (Section 10.9 of ASTM E1527-21 and Section 10.10 of ASTM E2247-16)

Do you know of:	Yes	No
(a.) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?	○	◉
(b.) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	◉	○
(c) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	○	◉

Signature

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Ed De La Llave

Print/Type Name: _____

Title: Environmental Project Manager

Company: CRC

Relationship to Client/User: _____

Date: 10/14/25

SAFETY DATA SHEET

Section 1. Identification

Product name : CRW3658A CORROSION INHIBITOR

Product code : CRW3658A

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Corrosion inhibitor.

Print date : 8/10/2021

Validation date : 8/10/2021

Version : 1

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.
Harmful to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Wash thoroughly after handling.

Section 2. Hazards identification

Response : Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Hazard statements (Code) : H314, H402, H410

Precautionary statements (Code) : P280, P273, P264, P391, P304 + P340, P310, P301 + P310, P330, P331, P303 + P361 + P353, P310, P363, P305 + P351 + P338, P310, P405, P501

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Quaternary ammonium compound	10 - 20	Trade secret.
Phosphate ester salt	5 - 10	Trade secret.
Ethanol	1 - 5	64-17-5
Alkyl amine	0.1 - 1	Trade secret.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

Inhalation : Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:,pain,watering,redness

Inhalation : No specific data.

Skin contact : pain or irritation,redness,blistering may occur

Ingestion : Adverse symptoms may include the following:,stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides,phosphorus oxides,halogenated compounds

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Quaternary ammonium compound	None.
Phosphate ester salt	None.
Ethanol	**ACGIH TLV (United States, 3/2020).** STEL: 1000 ppm, 0 times per shift, 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 1900 mg/m³, 0 times per shift, 10 hours. TWA: 1000 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 1900 mg/m³, 0 times per shift, 8 hours. TWA: 1000 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 1900 mg/m³, 0 times per shift, 8 hours. TWA: 1000 ppm, 0 times per shift, 8 hours.
Alkyl amine	None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection : Chemical-resistant gloves.

Skin protection : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Color : Colorless.

Odor : Alcohol

Odor threshold : Not available.

pH : 5.5 to 7.5

Melting/freezing point : Not available.

Section 9. Physical and chemical properties

Boiling point	:	Not available.
Initial Boiling Point	:	Not available.
Flash point	:	Closed cup: >93.34°C (>200°F) [TCC]
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1
Density	:	8.32 (lbs/gal)
Solubility in water	:	Soluble
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
VOC	:	Not available.
Pour Point	:	-1.67°C (29°F)

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials, metals, acids and alkalis.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Quaternary ammonium compound	LD50 Oral	Rat	426 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	20000 ppm	10 hours
	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Alkyl amine	LD50 Oral	Rat	1000 to 1250 mg/kg	-

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethanol	-	1	-

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Not applicable.

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:,pain,watering,redness

Inhalation : No specific data.

Skin contact : pain or irritation,redness,blistering may occur

Ingestion : Adverse symptoms may include the following:,stomach pains

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
CRW3658A CORROSION INHIBITOR	3485.7	Not available.	Not available.	Not available.	Not available.
Quaternary ammonium compound	426	Not available.	Not available.	Not available.	Not available.
Ethanol	7000	Not available.	Not available.	124.7	Not available.
Alkyl amine	500	Not available.	Not available.	Not available.	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Quaternary ammonium compound	Acute EC50 37 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4.15 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 32.2 ppb	Fish - Pimephales promelas	34 days
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

Persistence and degradability

Section 12. Ecological information

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1760	UN1760	UN1760	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Contains: Quaternary ammonium compound)	CORROSIVE LIQUID, N.O.S. (Contains: Quaternary ammonium compound)	CORROSIVE LIQUID, N.O.S. (Contains: Quaternary ammonium compound)	CORROSIVE LIQUID, N.O.S. (Contains: Quaternary ammonium compound)
Transport hazard class(es)	8 	8 	8 	8 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification : This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-A S-B

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 14. Transport information

DOT Reportable Quantity Not applicable.

Marine pollutant Quaternary ammonium compound

North-America NAERG : 154

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are active or exempted.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
None of the components are listed.				

SARA 302/304 : No products were found.

SARA 311/312

Classification : SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1

SARA 313

Supplier notification : No products were found.

California Prop. 65

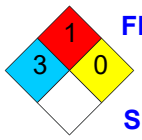
This product does not require a Safe Harbor warning under California Prop. 65.

Canada

Canada (CEPA DSL): : At least one component is not listed in DSL but all such components are listed in NDSL.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 8/10/2021

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Section 16. Other information

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : TRETOLITE™ DMO7040 DEMULSIFIER
™ a trademark of Baker Hughes Incorporated.

Product code : DMO7040

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Demulsifier.

Print date : 5/1/2020

Validation date : 5/1/2020

Version : 2

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Section 2. Hazards identification

Hazard statements : Flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
Suspected of causing cancer.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. 4H gloves.. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Light aromatic naphtha	20 - 30	64742-95-6
1,2,4-Trimethylbenzene	10 - 20	95-63-6
Heavy aromatic naphtha	5 - 10	64742-94-5
1,3,5-Trimethylbenzene	5 - 10	108-67-8
Xylene	1 - 5	1330-20-7
1,2,3-Trimethylbenzene	1 - 5	526-73-8
Naphthalene	0.1 - 1	91-20-3
Cumene	0.1 - 1	98-82-8
Ethylbenzene	0.1 - 1	100-41-4

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Skin contact : irritation,redness,dryness,cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Additional information

If product is ingested and vomiting occurs naturally, have person lean forward to reduce the risk of aspiration into the lungs.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 6. Accidental release measures

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Light aromatic naphtha 1,2,4-Trimethylbenzene	None. **ACGIH TLV (United States, 3/2019).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Heavy aromatic naphtha 1,3,5-Trimethylbenzene	None. **ACGIH TLV (United States, 3/2019).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

Xylene	**ACGIH TLV (United States, 3/2019).** STEL: 651 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 434 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 655 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.
1,2,3-Trimethylbenzene	**ACGIH TLV (United States, 3/2019).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Naphthalene	**ACGIH TLV (United States, 3/2019). Absorbed through skin.** TWA: 52 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 75 mg/m³, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. TWA: 50 mg/m³, 0 times per shift, 10 hours. TWA: 10 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 50 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 75 mg/m³, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. TWA: 50 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours.
Cumene	**ACGIH TLV (United States, 3/2019).** TWA: 50 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 10 hours. TWA: 50 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours.
Ethylbenzene	**ACGIH TLV (United States, 3/2019).** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 545 mg/m³, 0 times per shift, 15 minutes.

Section 8. Exposure controls/personal protection

	STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 10 hours. TWA: 100 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: Nitrile or Neoprene gloves. 4H gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Amber.

Odor : Aromatic hydrocarbon.

Odor threshold : Not available.

pH : 5 to 6

: in IPA/water

Melting/freezing point : Not available.

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 45°C (113°F) [PMCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Section 9. Physical and chemical properties

Evaporation rate : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : >1 [Air = 1]

Relative density : 0.93 (15.6°C)

Density : 7.75 (lbs/gal)

Solubility in water : Dispersible

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Light aromatic naphtha	LD50 Oral	Rat	2900 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Heavy aromatic naphtha	LC50 Inhalation Vapor	Rat	>11.4 mg/l	6 hours
	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-

Section 11. Toxicological information

	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
Cumene	LC50 Inhalation Vapor	Mouse	10000 mg/m³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Dermal	Rabbit	10600 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Light aromatic naphtha	Category 3	Not applicable.	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Heavy aromatic naphtha	Category 3	Not applicable.	Narcotic effects
1,3,5-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Xylene	Category 3	Not applicable.	Narcotic effects
1,2,3-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Cumene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	Not determined	hearing organs

Aspiration hazard

Section 11. Toxicological information

Name	Result
Light aromatic naphtha	ASPIRATION HAZARD - Category 1
Heavy aromatic naphtha	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Skin contact : irritation,redness,dryness,cracking

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
TRETOLITE™ DMO7040 DEMULSIFIER	Not available.	23081.2	104914.5	94.5	Not available.
Light aromatic naphtha	2900	Not available.	Not available.	Not available.	Not available.
1,2,4-Trimethylbenzene	5000	Not available.	Not available.	18	Not available.
Heavy aromatic naphtha	3200	Not available.	Not available.	Not available.	Not available.
1,3,5-Trimethylbenzene	5000	Not available.	Not available.	24	Not available.
Xylene	4300	1100	5000	Not available.	Not available.
Naphthalene	500	Not available.	Not available.	Not available.	Not available.
Cumene	2900	10600	Not available.	39	Not available.
Ethylbenzene	3500	15400	Not available.	11	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus	48 hours
	Acute LC50 22.4 mg/l Fresh water	Fish - Tilapia zillii	96 hours
1,3,5-Trimethylbenzene	Acute LC50 12520 to 15050 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Naphthalene	EC50 2.96 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	EC50 2.16 mg/l Fresh water	Daphnia	48 hours
	LC50 1.6 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 7400 to 11290 µg/l Fresh water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 30500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Section 12. Ecological information

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, Xylene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, Xylene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, Xylene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, 1,2,4-Trimethylbenzene)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.
This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Reportable quantity 2098.3 lbs / 952.62 kg [270.6 gal / 1024.3 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E S-E

Section 14. Transport information

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

DOT Reportable Quantity
Xylene, 271 gal of this product.
Naphthalene, 1356 gal of this product.

Marine pollutant
Light aromatic naphtha
1,2,4-Trimethylbenzene

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations :

TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Ethylbenzene; Naphthalene; Toluene; Benzene

Clean Water Act (CWA) 311: Xylene; Ethylbenzene; Naphthalene; Toluene; Benzene; Potassium hydroxide

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	1 - 5
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Naphthalene	Naphthalene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Toluene	Toluene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Benzene	Benzene	0 - 0.1

SARA 302/304 : No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
HNOC - Defatting irritant

Section 15. Regulatory information

SARA 313

	Product name	CAS number	%
Supplier notification	1,2,4-Trimethylbenzene Xylene Naphthalene Ethylbenzene	95-63-6 1330-20-7 91-20-3 100-41-4	10 - 20 1 - 5 0.1 - 1 0.1 - 1

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including naphthalene, cumene and ethylbenzene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 5/1/2020

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : TRETOLITE™ DMO8194HF DEMULSIFIER
™ a trademark of Baker Hughes Incorporated.

Product code : DMO8194HF

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Demulsifier.

Print date : 11/20/2018

Validation date : 11/20/2018

Version : 1.01

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
Suspected of causing cancer.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Section 2. Hazards identification

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. 4H gloves.. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Light aromatic naphtha	30 - 40	64742-95-6
1,2,4-Trimethylbenzene	20 - 30	95-63-6
2-Ethylhexanol	5 - 10	104-76-7
1,3,5-Trimethylbenzene	5 - 10	108-67-8
Xylene	1 - 5	1330-20-7
1,2,3-Trimethylbenzene	1 - 5	526-73-8
Heavy aromatic naphtha	1 - 5	64742-94-5
Cumene	0.1 - 1	98-82-8
Ethylbenzene	0.1 - 1	100-41-4
Naphthalene	0.1 - 1	91-20-3

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Skin contact : irritation,redness,dryness,cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Additional information

If product is ingested and vomiting occurs naturally, have person lean forward to reduce the risk of aspiration into the lungs.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,halogenated compounds

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Light aromatic naphtha 1,2,4-Trimethylbenzene	None. **ACGIH TLV (United States, 3/2018).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
2-Ethylhexanol 1,3,5-Trimethylbenzene	None. **ACGIH TLV (United States, 3/2018).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Xylene	**ACGIH TLV (United States, 3/2018).** STEL: 651 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 434 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 655 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.
1,2,3-Trimethylbenzene	**ACGIH TLV (United States, 3/2018).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

	NIOSH REL (United States, 10/2016). TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Heavy aromatic naphtha	None.
Cumene	**ACGIH TLV (United States, 3/2018).** TWA: 50 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 10 hours. TWA: 50 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours.
Ethylbenzene	**ACGIH TLV (United States, 3/2018).** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 10 hours. TWA: 100 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.
Naphthalene	**ACGIH TLV (United States, 3/2018). Absorbed through skin.** TWA: 52 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 75 mg/m³, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. TWA: 50 mg/m³, 0 times per shift, 10 hours. TWA: 10 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 50 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 75 mg/m³, 0 times per shift, 15 minutes. STEL: 15 ppm, 0 times per shift, 15 minutes. TWA: 50 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

Section 8. Exposure controls/personal protection

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: Nitrile or Neoprene gloves. 4H gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Yellow. [Light]

Odor : Aromatic solvent.

Odor threshold : Not available.

pH : 6.1

: 5% of product in 75% water/25% IPA

Melting/freezing point : Not available.

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 43.8°C (110.8°F) [SFCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : >1 [Air = 1]

Relative density : 0.88 (15.6°C)

Density : 7.36 (lbs/gal)

Solubility in water : Insoluble

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Light aromatic naphtha	LD50 Oral	Rat	2900 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
	LD50 Oral	Rat	5 g/kg	-
2-Ethylhexanol	LC50 Inhalation Vapor	Rat	0.89 mg/l	4 hours
	LD50 Dermal	Rabbit	1970 mg/kg	-
	LD50 Oral	Rat	2049 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Heavy aromatic naphtha	LC50 Inhalation Vapor	Rat	>11.4 mg/l	6 hours
	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Cumene	LC50 Inhalation Vapor	Mouse	10000 mg/m³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Dermal	Rabbit	10600 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-

Section 11. Toxicological information

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Light aromatic naphtha	Category 3	Not applicable.	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
2-Ethylhexanol	Category 3	Not applicable.	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Xylene	Category 3	Not applicable.	Narcotic effects
1,2,3-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Heavy aromatic naphtha	Category 3	Not applicable.	Narcotic effects
Cumene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	Not determined	hearing organs

Aspiration hazard

Name	Result
Light aromatic naphtha	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Heavy aromatic naphtha	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Section 11. Toxicological information

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	4178.6 mg/kg
Dermal	22214.2 mg/kg
Inhalation (gases)	100973.8 ppm
Inhalation (vapors)	46.86 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus	48 hours
	Acute LC50 22.4 mg/l Fresh water	Fish - Tilapia zillii	96 hours
2-Ethylhexanol	Acute LC50 75 mg/dm3 Fresh water	Fish - Oncorhynchus mykiss	96 hours
1,3,5-Trimethylbenzene	Acute LC50 12520 to 15050 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 7400 to 11290 µg/l Fresh water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 30500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Section 12. Ecological information

	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Naphthalene	EC50 2.96 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	EC50 2.16 mg/l Fresh water	Daphnia	48 hours
	LC50 1.6 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Light aromatic naphtha)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Light aromatic naphtha)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Light aromatic naphtha)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Light aromatic naphtha)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.
This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Reportable quantity 2019.5 lbs / 916.84 kg [275.23 gal / 1041.9 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ

Section 14. Transport information

(reportable quantity) transportation requirements.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E S-E

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

DOT Reportable Quantity Xylene, 274 gal of this product.

Marine pollutant Light aromatic naphtha
1,2,4-Trimethylbenzene

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Ethylbenzene; Naphthalene

Clean Water Act (CWA) 311: Xylene; Ethylbenzene; Naphthalene; Potassium hydroxide

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	1 - 5
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Naphthalene	Naphthalene	0.1 - 1

SARA 302/304 : No products were found.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Supplier notification	1,2,4-Trimethylbenzene Xylene Ethylbenzene Naphthalene	95-63-6 1330-20-7 100-41-4 91-20-3	20 - 30 1 - 5 0.1 - 1 0.1 - 1

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including cumene, naphthalene, ethylbenzene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 11/20/2018

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : TRETOLITE™ DMO8298X DEMULSIFIER
™ a trademark of Baker Hughes Incorporated.

Product code : DMO8298X

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Demulsifier.

Print date : 1/18/2023

Validation date : 1/18/2023

Version : 2.01

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

Section 2. Hazards identification

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Light aromatic naphtha	30 - 40	64742-95-6
1,2,4-Trimethylbenzene	20 - 30	95-63-6
1,3,5-Trimethylbenzene	5 - 10	108-67-8
Xylene	5 - 10	1330-20-7
1,2,3-Trimethylbenzene	1 - 5	526-73-8
Cumene	0.1 - 1	98-82-8
Ethylbenzene	0.1 - 1	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Section 4. First aid measures

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:,pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Skin contact : irritation,redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Light aromatic naphtha	None.
1,2,4-Trimethylbenzene	**NIOSH REL (United States, 10/2020).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours. **ACGIH TLV (United States, 1/2022).** TWA: 10 ppm 8 hours.
1,3,5-Trimethylbenzene	**ACGIH TLV (United States, 1/2022).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2020).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Xylene	**ACGIH TLV (United States, 1/2022).** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 655 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.
1,2,3-Trimethylbenzene	**ACGIH TLV (United States, 1/2022).** TWA: 123 mg/m³, 0 times per shift, 8 hours. TWA: 10 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2020).** TWA: 125 mg/m³, 0 times per shift, 10 hours. TWA: 25 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 125 mg/m³, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

	TWA: 25 ppm, 0 times per shift, 8 hours.
Cumene	**ACGIH TLV (United States, 1/2022).** TWA: 5 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2020). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 10 hours. TWA: 50 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 245 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours.
Ethylbenzene	**ACGIH TLV (United States, 1/2022). Ototoxicant.** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2020).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 10 hours. TWA: 100 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid. [Clear to hazy.]

Color : Amber.

Odor : Aromatic hydrocarbon.

Odor threshold : Not available.

pH : 6 to 8

: 5% of product in 75% water/25% IPA

Melting point/freezing point : Not available.

Initial Boiling Point : Not available.

Boiling point, initial boiling point, and boiling range : Not available.

Flash point : Closed cup: 45°C (113°F) [PMCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure : Not available.

Relative vapor density : >1 [Air = 1]

Relative density : 0.9199 (15.6°C)

Density : 7.6628 (lbs/gal)

Solubility in water : Insoluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic (15.6°C): 5 to 7 cP

VOC : Not available.

Pour Point : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Section 10. Stability and reactivity

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Light aromatic naphtha	LD50 Oral	Rat	2900 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
	LD50 Oral	Rat	5 g/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	29 mg/l	4 hours
	LD50 Dermal	Rabbit	20000 mg/kg	-
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	3287 mg/kg	-
Cumene	LC50 Inhalation Vapor	Mouse	10000 mg/m³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Dermal	Rabbit	10600 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Light aromatic naphtha	Category 3	-	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Cumene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Name	Result
Light aromatic naphtha	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:,pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness

Skin contact : irritation,redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Section 11. Toxicological information

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
TRETOLITE™ DMO8298X DEMULSIFIER	Not available.	19721.1	89641.5	78.8	Not available.
Light aromatic naphtha	2900	Not available.	Not available.	Not available.	Not available.
1,2,4-Trimethylbenzene	5000	Not available.	Not available.	18	Not available.
1,3,5-Trimethylbenzene	5000	Not available.	Not available.	24	Not available.
Xylene	3287	1100	5000	29	Not available.
Cumene	2900	10600	Not available.	39	Not available.
Ethylbenzene	3500	15400	Not available.	11	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus	48 hours
	Acute LC50 22.4 mg/l Fresh water	Fish - Tilapia zillii	96 hours
1,3,5-Trimethylbenzene	Acute LC50 12520 to 15050 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 7400 to 11290 µg/l Fresh water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 30500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours

Section 12. Ecological information

	Acute LC50 4200 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	96 hours 96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Light aromatic naphtha	-	10 to 2500	high
1,2,4-Trimethylbenzene	3.63	243	low
1,3,5-Trimethylbenzene	3.42	161	low
Xylene	3.12	8.1 to 25.9	low
1,2,3-Trimethylbenzene	3.66	194.98	low
Cumene	3.55	94.69	low
Ethylbenzene	3.6	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, 1,2,4-Trimethylbenzene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, 1,2,4-Trimethylbenzene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, 1,2,4-Trimethylbenzene)	FLAMMABLE LIQUID, N.O.S. (Contains: Light aromatic naphtha, 1,2,4-Trimethylbenzene)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III

Section 14. Transport information

Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

DOT Classification : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.
This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Reportable quantity 1792.8 lbs / 813.95 kg [233.74 gal / 884.82 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E S-E

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

DOT Reportable Quantity Xylene, 234 gal of this product.

Marine pollutant ☑ Light aromatic naphtha
1,2,4-Trimethylbenzene

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations :

TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

☑ **United States inventory (TSCA 8b)**: All components are active or exempted.

☑ **Clean Water Act (CWA) 307**: ethylbenzene; naphthalene; toluene; benzene

☑ **Clean Water Act (CWA) 311**: xylene; ethylbenzene; potassium hydroxide; naphthalene; toluene; benzene

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

Section 15. Regulatory information

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	5 - 10
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	0.1 - 1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Naphthalene	Naphthalene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Toluene	Toluene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Benzene	Benzene	0 - 0.1

SARA 302/304 : No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SARA 313

	Product name	CAS number	%
Supplier notification	1,2,4-Trimethylbenzene	95-63-6	20 - 30
	Xylene	1330-20-7	5 - 10
	Cumene	98-82-8	0.1 - 1
	Ethylbenzene	100-41-4	0.1 - 1

California Prop. 65

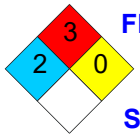
⚠ **WARNING**: This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including cumene, ethylbenzene and naphthalene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 1/18/2023

Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : TECHNI-BREAK 8424
Product code : DMO8424

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Emulsion Breaker.

Print date : 2/5/2015.
Validation date : 2/5/2015.
Version : 1

Supplier's details : Baker Petrolite
A Baker Hughes Company
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/MSDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. cst, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CANUTEC: 613-996-6666 (Canada 24 hours)
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 2
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION [Unborn child] - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Flammable liquid and vapor.
Causes skin irritation.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause respiratory irritation.
May cause drowsiness and dizziness.
Toxic to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazards identification

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : Collect spillage. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Petroleum naphtha	40 - 50	64742-47-8
Ethylbenzene	5 - 10	100-41-4
Isopropanol	1 - 5	67-63-0
Xylene	1 - 5	1330-20-7
Heavy aromatic naphtha	1 - 5	64742-94-5
Toluene	0.1 - 1	108-88-3
Cumene	0.1 - 1	98-82-8

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Inhalation : respiratory tract irritation,coughing,nausea or vomiting,headache,drowsiness/fatigue, dizziness/vertigo,unconsciousness,reduced fetal weight,increase in fetal deaths,skeletal malformations

Skin contact : irritation,redness,dryness,cracking,reduced fetal weight,increase in fetal deaths,skeletal malformations

Ingestion : reduced fetal weight,increase in fetal deaths,skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made

Section 7. Handling and storage

from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredients:	**List name**	**ppm**	**mg/m³**	**Other**	**ppm**	**mg/m³**	**Other**	**ppm**	**mg/m³**	**Other**	**Notations**
Petroleum naphtha, as total hydrocarbon vapor	US ACGIH	-	200	-	-	-	-	-	-	-	[1]
Ethylbenzene	US ACGIH	20	-	-	-	-	-	-	-	-	
	OSHA PEL	100	435	-	-	-	-	-	-	-	
	OSHA PEL 1989	100	435	-	125	545	-	-	-	-	
Isopropanol	US ACGIH	200	-	-	400	-	-	-	-	-	
	OSHA PEL	400	980	-	-	-	-	-	-	-	
	OSHA PEL 1989	400	980	-	500	1225	-	-	-	-	
Xylene	US ACGIH	100	434	-	150	651	-	-	-	-	
	OSHA PEL	100	435	-	-	-	-	-	-	-	
	OSHA PEL 1989	100	435	-	150	655	-	-	-	-	
Toluene	US ACGIH	20	-	-	-	-	-	-	-	-	
	OSHA PEL 1989	100	375	-	150	560	-	-	-	-	
	OSHA PEL Z2	200	-	-	-	-	-	300	-	-	
Cumene	US ACGIH	50	-	-	-	-	-	-	-	-	
	OSHA PEL	50	245	-	-	-	-	-	-	-	[1]
	OSHA PEL 1989	50	245	-	-	-	-	-	-	-	[1]

[1]Absorbed through skin.

Consult local authorities for acceptable exposure limits.

Only components of this product with established exposure limits appear in the box above.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Section 8. Exposure controls/personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Color : Amber. [Light]

Odor : Hydrocarbon.

Odor threshold : Not available.

pH : Not available.

Melting/freezing point : Not available.

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 25.56°C (78°F) [TCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 0.95

Density : 7.914 (lbs/gal)

Solubility in water : Insoluble

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Isopropanol	LC50 Inhalation Vapor	Rat	>10000 ppm	6 hours
	LD50 Dermal	Rabbit	6.29 g/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Heavy aromatic naphtha	LC50 Inhalation Vapor	Rat	>11.4 mg/l	6 hours
	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Toluene	LC50 Inhalation Vapor	Female rat	5100 ppm	4 hours
	LC50 Inhalation Vapor	Rat	49000 mg/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Cumene	LC50 Inhalation Vapor	Mouse	10000 mg/m³	7 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours
	LD50 Dermal	Rabbit	10600 mg/kg	-
	LD50 Oral	Rat	2.9 g/kg	-

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Ethylbenzene	-	2B	-
Isopropanol	-	3	-
Xylene	-	3	-
Toluene	-	3	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Petroleum naphtha	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Isopropanol	Category 3	Not applicable.	Narcotic effects
Xylene	Category 3	Not applicable.	Narcotic effects
Heavy aromatic naphtha	Category 3	Not applicable.	Narcotic effects
Toluene	Category 3	Not applicable.	Narcotic effects
Cumene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Name	Result
Petroleum naphtha	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Heavy aromatic naphtha	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Section 11. Toxicological information

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	24119.1 mg/kg
Dermal	66290 mg/kg
Inhalation (gases)	301318.3 ppm
Inhalation (vapors)	130.4 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Petroleum naphtha	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
	Acute LC50 2900 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Isopropanol	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1400000 µg/l	Fish - Gambusia affinis	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 7400 to 11290 µg/l Fresh water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 30500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

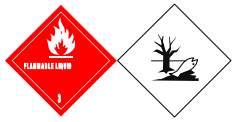
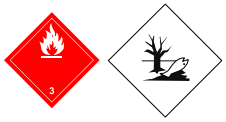
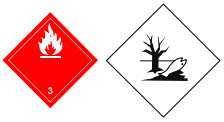
Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Petroleum naphtha, Isopropanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Petroleum naphtha, Isopropanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Petroleum naphtha, Isopropanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Petroleum naphtha, Isopropanol)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	No.
Additional information	-	-	**Emergency schedules (EmS)** F-E S-E	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

DOT Reportable Quantity Ethylbenzene, 1498 gal of this product.
Xylene, 761 gal of this product.

Marine pollutant Petroleum naphtha
Heavy aromatic naphtha

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.
TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Ethylbenzene; Toluene; Naphthalene; Benzene
Clean Water Act (CWA) 311: Ethylbenzene; Xylene; Toluene; Naphthalene; Benzene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

SARA 302/304 : No products were found.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Supplier notification	Ethylbenzene Xylene	100-41-4 1330-20-7	5 - 10 1 - 5

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 2/5/2015.

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this MSDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : PETROSWEET™ HSW700 SCAVENGER
™ a trademark of Baker Hughes Incorporated.

Product code : HSW700

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Hydrogen Sulfide Scavenger.

Print date : 10/21/2019

Validation date : 10/21/2019

Version : 2

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 3
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (optic nerve) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

Hazard statements : Flammable liquid and vapor.
Toxic if inhaled.
Harmful if swallowed.
Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Causes damage to organs. (optic nerve)
Causes damage to organs through prolonged or repeated exposure. (respiratory tract)

Precautionary statements

Prevention : Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. 4H gloves. Butyl rubber gloves.. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response : Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Additional information

The vapor pressure of the alkanolamine/aldehyde condensate in this product is extremely low. In hydrogen sulfide scavenging applications in oil and gas production or processing of hydrogen streams, mechanically generated mists or aerosols are not expected to be formed. Therefore, in these applications human inhalation exposure to this alkanolamine/aldehyde condensate is not expected to occur.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Alkanolamine/aldehyde condensate	40 - 50	4719-04-4
Methanol	5 - 10	67-56-1
Monoethanolamine	1 - 5	141-43-5

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

Section 4. First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Toxic if inhaled.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : pain,watering,redness

Inhalation : No specific data.

Skin contact : pain or irritation,redness,blistering may occur

Ingestion : stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Section 5. Fire-fighting measures

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Additional information

The recommended shelf life for this product is 12 months from the manufacturing date.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Alkanolamine/aldehyde condensate Methanol	None. **ACGIH TLV (United States, 3/2018). Absorbed through skin.** STEL: 328 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 262 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016). Absorbed through skin.** STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 10 hours. TWA: 200 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

Monoethanolamine	**ACGIH TLV (United States, 3/2018).** STEL: 15 mg/m³, 0 times per shift, 15 minutes. STEL: 6 ppm, 0 times per shift, 15 minutes. TWA: 7.5 mg/m³, 0 times per shift, 8 hours. TWA: 3 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 15 mg/m³, 0 times per shift, 15 minutes. STEL: 6 ppm, 0 times per shift, 15 minutes. TWA: 8 mg/m³, 0 times per shift, 10 hours. TWA: 3 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 6 mg/m³, 0 times per shift, 8 hours. TWA: 3 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 15 mg/m³, 0 times per shift, 15 minutes. STEL: 6 ppm, 0 times per shift, 15 minutes. TWA: 8 mg/m³, 0 times per shift, 8 hours. TWA: 3 ppm, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection : Chemical-resistant gloves: Nitrile or Neoprene gloves. 4H gloves. Butyl rubber gloves.

Skin protection : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Light yellow to Straw Yellow.

Odor : Amine like.

Odor threshold : Not available.

pH : 10 to 11.5

: 5% of product in 75% isopropanol / 25% water solution

Melting/freezing point : Not available.

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 52.2°C (126°F) [SFCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 32.4 kPa (243 mm Hg, 4.7 psig) @ 54.4°C, 130 F (Reid)

Vapor density : >1 [Air = 1]

Relative density : 1.074 (15.6°C)

Density : 8.95 (lbs/gal)

Solubility in water : Soluble

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic (15.6°C): 14 to 16 cP

VOC : Not available.

Pour Point : -37°C (-34.6°F)

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Section 10. Stability and reactivity

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, reducing materials and acids.
Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium – including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alkanolamine/aldehyde condensate	LC50 Inhalation Dusts and mists	Rat - Female	0.338 mg/l	4 hours
	LC50 Inhalation Dusts and mists	Rat - Male	0.4 mg/l	4 hours
	LD50 Oral	Rat	763 mg/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Monoethanolamine	LD50 Oral	Rat	1720 mg/kg	-

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

No applicable toxicity data

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methanol	Category 1	Oral	optic nerve
Monoethanolamine	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Alkanolamine/aldehyde condensate	Category 1	Not determined	respiratory tract

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Toxic if inhaled.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	657.8 mg/kg
Dermal	3077.8 mg/kg
Inhalation (vapors)	30.78 mg/l
Inhalation (dusts and mists)	0.7659 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Alkanolamine/aldehyde condensate	Acute EC50 6.66 mg/l	Algae - Green algae	72 hours
	Acute EC50 11.9 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 16.07 mg/l	Fish - Brachadanio rerio	96 hours
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Monoethanolamine	Acute EC50 80000 µg/l Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 170000 µg/l Fresh water	Fish - Carassius auratus	96 hours
PETROSWEET™ HSW700 SCAVENGER	Acute EC50 5.4 mg/l	Algae	48 hours
	Acute LC50 64 mg/l	Fish	96 hours
	Acute LC50 180 mg/l	Fish	96 hours

Section 12. Ecological information

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2929	UN2929	UN2929	UN2929
UN proper shipping name	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Contains: Alkanolamine/aldehyde condensate, Methanol)	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Contains: Alkanolamine/aldehyde condensate, Methanol)	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Contains: Alkanolamine/aldehyde condensate, Methanol)	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (Contains: Alkanolamine/aldehyde condensate, Methanol)
Transport hazard class(es)	6.1 (3) 	6.1 (3) 	6.1 (3) 	6.1 (3) 
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

Additional information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.26-2.36 (Class 6), 2.18-2.19 (Class 3).

IMDG : **Emergency schedules** F-E S-D

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

DOT Reportable Quantity Methanol, 5988 gal of this product.

Section 14. Transport information

Marine pollutant Not available.

North-America NAERG : 131

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 4(a) final test rules**: Alkanolamine/aldehyde condensate

TSCA 12(b) one-time export: Alkanolamine/aldehyde condensate

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Methanol	Methanol	5 - 10

SARA 302/304 : No products were found.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Supplier notification	Methanol	67-56-1	5 - 10

California Prop. 65

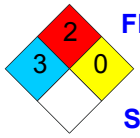
⚠ **WARNING**: This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



Flammability
Health
Instability
Special

History

Date of printing : 10/21/2019

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or

Section 16. Other information

disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

CRC LA Basin

Continuous Chemical Applications

											Start Date 8/14/25			End Date 8/21/25	Total Days 7					
Area1	Area2	Field Location	Chemical Location	Treatment	TLM S/N	Product Name	Application	Tank Capacity (Gals)	Tank Factor (Gals/Inch)	Starting Inventory (Inches)	Starting Inventory (Gals)	Deliveries (Gals)	Ending Inventory (Inches)	Ending Inventory (Gals)	Daily Usage (GPD)	Target Rate (GPD)	Usage % of Target	Product Cost ($/Gal)	Weekly Cost $	Comments
Huntington Beach	Highlands	MAT 2	392S1B	Downhole	910047210	SCW4056		300.0	7.550	16.7	109.5	60.0	20.5	154.8	2.1	1.8	20.0%	$ 7.53	$ 110.69	rate checked 8/21
Huntington Beach	Highlands	MAT 2	392J143	Downhole	910047207	PAO2000		240.0	5.300	11.5	53.5		9.5	50.4	0.5	0.5	-9.1%	$ 10.67	$ 33.93	
Huntington Beach	Highlands	CELLAR 1	425-742	Downhole	910047151	DMO8194HF		125.0	2.859	27.8	64.3		20.2	57.8	0.9	1.0	-6.1%	$ 14.74	$ 96.93	
Huntington Beach	Highlands	MAT 5	MAT 5 WELLS	Downhole	910047020	SCW4056		300.0	7.500	11.2	70.1	115.0	22.5	168.8	2.3	2.3	3.8%	$ 7.53	$ 123.12	
Huntington Beach	Highlands	MAT 7	MAT 7 WELLS	Downhole	910047196	SCW4056		200.0	4.400	17.5	36.1	130.0	33.3	146.3	2.8	3.0	-5.7%	$ 7.53	$ 149.09	7/17 - Increased the rate to 3gp
Huntington Beach	Highlands	MAT 7	392 FWKO	Surface	910047211	DMO8424		240.0	5.300	22.5	222.6		29.5	156.4	9.5	8.0	18.3%	$ 23.05	$ 1,527.06	rate checked 8/21
Huntington Beach	Highlands	MAT 7	392S93B	Downhole	910051637	CRW3658		200.0	4.400	9.0	160.0		31.6	139.0	3.0	3.0	-0.2%	$ 7.02	$ 147.14	
Huntington Beach	Highlands	MAT 10	MAT 10 WELLS	Downhole	910047217	CRW3658		125.0	2.859	16.0	28.9		7.5	21.4	1.1	1.0	6.2%	$ 9.83	$ 73.07	
Huntington Beach	Highlands	MAT 11	MAT 11 CHEM STATION	Downhole	910047215	WCW7918		200.0	4.400	19.8	73.9		15.3	67.1	1.0	1.0	-2.6%	$ 11.00	$ 75.02	
Huntington Beach	Highlands	MAT 11	MAT 11 WELLS	Downhole	910047213	SCW4056		200.0	4.400	17.5	67.1		12.9	56.8	1.5	1.5	-1.5%	$ 7.53	$ 77.86	
Huntington Beach	Highlands	MAT 12	MAT 12 WELLS	Downhole	910047014	SCW4056		200.0	4.400	6.0	25.0	140.0	33.0	145.2	2.8	3.0	-5.7%	$ 7.53	$ 149.09	
Huntington Beach	Highlands	MAT 22A	91 FWKO	Surface	910051538	DMO7040		210.0	4.700	9.5	42.4		8.3	39.0	0.5	0.5	-3.1%	$ 16.54	$ 56.07	
Huntington Beach	Highlands	MAT 22A	MAT 22A WELLS	Downhole	910047186	CRW3658		300.0	7.500	15.0	195.0		23.0	172.5	3.2	3.0	7.1%	$ 7.02	$ 157.95	
Huntington Beach	Highlands	MAT B	426 and SBO FWKO	Surface	910051536	DMO7040		250.0	5.300	17.0	67.8		11.0	58.3	1.4	1.5	-9.1%	$ 16.54	$ 157.79	
Huntington Beach	Highlands	MAT B	SBO and 426 GAS LINE	Surface	910047209	CRW3658		125.0	2.859	30.0	75.5		22.2	63.5	1.7	2.0	-14.2%	$ 7.02	$ 84.29	rate checked 8/21
Huntington Beach	Highlands	MAT C	MAT C WELLS	Downhole	910047200	SCW4056		200.0	4.400	7.8	22.3		2.5	11.0	1.6	1.5	7.6%	$ 7.53	$ 85.09	
Huntington Beach	Highlands	MAT C	4264111A	Downhole	910047156	CRW3658		125.0	2.859	12.0	23.2		7.0	20.0	0.5	0.5	-8.9%	$ 7.02	$ 22.37	7/17 - Decreased the rate to 0.5gpd
Huntington Beach	Highlands	MAT C8	MAT C8 WELLS	Downhole	910047214	SCW4056		200.0	4.400	17.5	61.6		11.9	52.4	1.3	1.3	5.6%	$ 7.53	$ 69.58	
Huntington Beach	Highlands	MAT C8	MAT C8 WELLS	Downhole	910047198	CRW3658		200.0	4.400	16.0	49.5		9.5	41.8	1.1	1.0	10.0%	$ 7.02	$ 54.05	rate checked 8/21
Huntington Beach	Highlands	MAT C8	425 GAS LINE	Surface	910047573	CRW3658		125.0	2.859	13.0	24.1		6.0	17.2	1.0	1.0	-0.8%	$ 7.02	$ 48.76	
Huntington Beach	Highlands	MAT D	4264135A	Downhole	910047216	SCW4056		130.0	2.859	26.9	52.9		15.0	42.9	1.4	1.3	14.4%	$ 7.53	$ 75.35	rate checked 8/21
Huntington Beach	State Lease	STATE LEASE	STATE LEASE WELLS	Downhole	910047169	SCW4056		300.0	7.550	13.0	58.5		6.5	49.1	1.3	1.5	-10.1%	$ 7.53	$ 71.06	rate checked 8/21
Huntington Beach	Bolsas	NORTH BOLSA	NBO71A	Downhole	910060681	PAO103		125.0	2.859	7.0	65.0		20.3	57.9	1.0	1.0	1.5%	$ 8.25	$ 58.62	7/17- Decreased the rate to 1gpd
Huntington Beach	Bolsas	NORTH BOLSA	NBO21B	Downhole	910047190	CRW3658		200.0	4.400	10.0	22.0		3.0	13.2	1.3	1.3	0.6%	$ 7.02	$ 61.78	
Huntington Beach	Bolsas	NORTH BOLSA	NBO61-1	Downhole	910047045	SCW4056		200.0	4.400	14.0	45.2		9.5	41.8	0.5	0.5	-2.9%	$ 7.53	$ 25.60	
Huntington Beach	Bolsas	NORTH BOLSA	NBO13	Downhole	910047187	CRW3658		200.0	4.400	14.8	56.1		11.3	49.5	0.9	1.0	-5.7%	$ 7.02	$ 46.33	
Huntington Beach	Bolsas	NORTH BOLSA	NBO64A	Downhole	910047197	SCW4056		125.0	2.859	26.0	69.0		23.0	65.8	0.5	0.5	-7.3%	$ 7.53	$ 24.42	
Huntington Beach	Bolsas	NORTH BOLSA	NBO81	Downhole	910046997	CRW3658		125.0	2.859	12.7	32.1		9.9	28.3	0.5	0.5	8.5%	$ 7.02	$ 26.65	
Huntington Beach	Bolsas	NORTH BOLSA	NBO61A	Downhole	910048750	SCW4056		125.0	2.859	21.0	54.1		17.8	50.9	0.5	0.5	-8.3%	$ 7.53	$ 24.17	
Huntington Beach	Bolsas	NORTH BOLSA	NBO33A	Downhole	910048749	CRW3658		125.0	2.859	10.0	92.9		28.8	82.2	1.5	1.5	2.1%	$ 7.02	$ 75.26	
Huntington Beach	Bolsas	NORTH BOLSA	NBO51E-1	Downhole	910047164	CRW3658		150.0	3.050	18.0	44.2		12.0	36.6	1.1	1.0	8.9%	$ 7.02	$ 53.53	
Huntington Beach	Bolsas	NORTH BOLSA	NBO32P	Downhole	910047017	SCW4056		125.0	2.859	16.0	35.7		11.3	32.2	0.5	0.5	2.1%	$ 7.53	$ 26.91	7/17 - Decreased the rate to 0.5gpd
Huntington Beach	Bolsas	NORTH BOLSA	NBO121E	Downhole	910047193	CRW3658		150.0	3.050	16.6	59.8		18.4	56.1	0.5	0.5	5.1%	$ 7.02	$ 25.83	
Huntington Beach	Bolsas	NORTH BOLSA	NBO101H	Downhole	910047153	SCW4056		200.0	4.400	26.0	78.2		16.9	74.4	0.5	0.5	9.7%	$ 7.53	$ 28.92	7/817- Decreased the rate to 0.5gpd
Huntington Beach	Bolsas	NORTH BOLSA	NBO111E-1	Downhole		SCW4056		200.0	4.400	10.1	37.0		7.7	33.9	0.4	0.5	-12.0%	$ 7.53	$ 23.19	well off
Huntington Beach	Bolsas	NORTH BOLSA	NBO111G	Downhole	910060666	SCW4056		200.0	4.400	22.1	88.0		19.3	84.7	0.5	0.5	-5.7%	$ 7.53	$ 24.85	
Huntington Beach	Bolsas	NORTH BOLSA	NBO131-1	Downhole	910047183	CRW6147C		200.0	4.400	16.7	57.2		10.4	45.8	1.6	1.5	9.0%	$ 9.83	$ 112.46	
Huntington Beach	Bolsas	NORTH BOLSA	NBO81E	Downhole	910047170	CRW3658		200.0	4.400	13.0	39.6		3.4	15.0	3.5	3.0	17.3%	$ 7.02	$ 172.97	rate checked 8/21
Huntington Beach	Bolsas	SOUTH BOLSA	SBO GAS LINE	Surface	910047188	CRW3658		200.0	4.400	14.8	53.9		9.3	40.9	1.9	2.0	-7.3%	$ 7.02	$ 91.12	
Huntington Beach	Bolsas	SOUTH BOLSA	SBOS72	Downhole	910047036	SCW4056		200.0	4.400	24.0	92.4		20.3	89.1	0.5	0.5	-5.7%	$ 7.53	$ 24.85	
Huntington Beach	Bolsas	SOUTH BOLSA	SBOS63	Downhole	910047191	SCW4056		125.0	2.859	24.2	61.5		20.4	58.3	0.4	0.5	-10.1%	$ 7.53	$ 23.68	rate checked 8/21
Huntington Beach	Bolsas	SOUTH BOLSA	SBOS71	Downhole	910047180	CRW3658		200.0	4.400	10.3	25.2		5.0	22.0	0.5	0.5	-8.6%	$ 7.02	$ 22.46	
Huntington Beach	Highlands	INJECTION PUMP	INJECTION PUMP TANK	Surface	910047052	CRW3658		200.0	4.400	11.5	17.2	110.0	26.8	117.7	1.4	1.5	-9.5%	$ 7.02	$ 66.69	
Huntington Beach	Highlands	PLANTS	SKIM TANK IN	Surface	910047189	RBW6560		250.0	4.400	41.5	113.3		17.5	77.0	5.2	5.0	3.7%	$ 8.82	$ 320.17	
Huntington Beach	Highlands	PLANTS	WEMCO OUT	Surface	910047179	SRW156		1000.0	12.120	40.8	681.8		45.3	548.4	19.0	18.0	5.8%	$ 11.95	$ 1,593.17	
Huntington Beach	Highlands	PLANTS	SURGE TANK	Surface	910047051	DMO8298X		125.0	2.859	23.4	120.6		32.8	93.8	3.8	4.0	-4.0%	$ 14.47	$ 388.88	
Huntington Beach	Highlands	V621	GAS LINE	Surface	910047152	HSW700		500.0	8.500	31.3	473.9	250.0	55.0	467.5	36.6	26.0	40.9%	$ 5.77	$ 1,479.28	Rate automated and varies with H2S/Gas Volumes
Huntington Beach	Platform Emmy	EMMY Onshore	425 FWKO	Surface	910047154	DMO8424		165.0	8.500	11.8	114.8		12.0	102.0	1.8	2.0	-8.9%	$ 23.05	$ 293.89	
Huntington Beach	Platform Emmy	EMMY Onshore	425 and EMMY FWKO V111 Line	Surface	910051592	DMO7040		250.0	5.300	34.8	201.0		29.0	153.7	6.8	6.0	12.6%	$ 16.54	$ 782.34	rate checked 8/21

SAFETY DATA SHEET

Section 1. Identification

Product name : PAO2000 PARAFFIN DISPERSANT

Product code : PAO2000

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Paraffin Dispersant.

Print date : 1/29/2020

Validation date : 1/28/2020

Version : 2

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Section 2. Hazards identification

Hazard statements : Flammable liquid and vapor.
Harmful in contact with skin or if inhaled.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): 4H gloves. Viton gloves. Nitrile gloves.. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Xylene	60 - 70	1330-20-7
Alkylaryl sulfonates	10 - 20	Trade secret.
Ethylbenzene	10 - 20	100-41-4
Toluene	1 - 5	108-88-3

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Section 4. First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Harmful in contact with skin. Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Inhalation : nausea or vomiting,headache,drowsiness/fatigue,dizziness/vertigo,unconsciousness, reduced fetal weight,increase in fetal deaths,skeletal malformations

Skin contact : irritation,redness,dryness,cracking,reduced fetal weight,increase in fetal deaths,skeletal malformations

Ingestion : reduced fetal weight,increase in fetal deaths,skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Additional information

If product is ingested and vomiting occurs naturally, have person lean forward to reduce the risk of aspiration into the lungs.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides,sulfur oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Xylene	**ACGIH TLV (United States, 3/2018).** STEL: 651 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 434 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 655 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours.
Alkylaryl sulfonates	None.
Ethylbenzene	**ACGIH TLV (United States, 3/2018).** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 10 hours. TWA: 100 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 435 mg/m³, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

Toluene	TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 545 mg/m³, 0 times per shift, 15 minutes. STEL: 125 ppm, 0 times per shift, 15 minutes. TWA: 435 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **ACGIH TLV (United States, 3/2018).** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 560 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 375 mg/m³, 0 times per shift, 10 hours. TWA: 100 ppm, 0 times per shift, 10 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 560 mg/m³, 0 times per shift, 15 minutes. STEL: 150 ppm, 0 times per shift, 15 minutes. TWA: 375 mg/m³, 0 times per shift, 8 hours. TWA: 100 ppm, 0 times per shift, 8 hours. **OSHA PEL Z2 (United States, 2/2013).** AMP: 500 ppm, 0 times per shift, 10 minutes. CEIL: 300 ppm, 0 times per shift, 0 hours. TWA: 200 ppm, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: 4H gloves. Viton gloves. Nitrile gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Amber. [Light]

Odor : Aromatic solvent.

Odor threshold : Not available.

pH : 4 to 8

: 10% of product

Melting/freezing point : Not available.

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 29°C (84.2°F) [Unknown]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 9.7 kPa (72.4 mm Hg (1.4 psig)) @ 54.44°C (130 F) (Reid)

Vapor density : >1 [Air = 1]

Relative density : 0.894 (15.6°C)

Density : 7.45 (lbs/gal)

Solubility in water : Insoluble

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : -29°C (-20.2°F)

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Male rat	3523 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Toluene	LC50 Inhalation Vapor	Female rat	5100 ppm	4 hours
	LC50 Inhalation Vapor	Rat	49000 mg/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	-
Ethylbenzene	-	2B	-
Toluene	-	3	-

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Xylene	Category 3	Not applicable.	Narcotic effects
Toluene	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	Not determined	hearing organs

Aspiration hazard

Name	Result
Xylene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Section 11. Toxicological information

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Harmful in contact with skin. Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2135.1 mg/kg
Dermal	1578.2 mg/kg
Inhalation (gases)	7173.6 ppm
Inhalation (vapors)	90.64 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2930 to 4400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Toluene)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Toluene)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Toluene)	FLAMMABLE LIQUID, N.O.S. (Contains: Xylene, Toluene)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	II
Environmental hazards	No.	No.	No.	No.

Additional information

DOT Classification : **Reportable quantity** 143.47 lbs / 65.136 kg [19.247 gal / 72.859 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

IMDG : **Emergency schedules** F-E S-E

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 14. Transport information

DOT Reportable Quantity
Xylene, 19 gal of this product.
Ethylbenzene, 1106 gal of this product.
Toluene, 3688 gal of this product.

Marine pollutant Not available.

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations :
TSCA 12(b) one-time export: No products were found.
TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Ethylbenzene; Toluene; Benzene
Clean Water Act (CWA) 311: Xylene; Ethylbenzene; Toluene; Benzene

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	60 - 70
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	10 - 20
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Toluene	Toluene	1 - 5
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Benzene	Benzene	0 - 0.1

SARA 302/304 : No products were found.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Supplier notification	Xylene Ethylbenzene Toluene	1330-20-7 100-41-4 108-88-3	60 - 70 10 - 20 1 - 5

California Prop. 65

⚠ **WARNING**: This product can expose you to benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including ethylbenzene, cumene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 1/29/2020

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : TRETOLITE™ RBW6560 WATER CLARIFIER
™ a trademark of Baker Hughes Incorporated.

Product code : RBW6560

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Water clarifier.

Print date : 1/19/2023

Validation date : 1/19/2023

Version : 2.02

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
No hazardous ingredient		

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Section 5. Fire-fighting measures

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: Neoprene gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Milky-white.

Odor : Sweet.

Odor threshold : Not available.

pH : 6.5

: 5% in water

Melting point/freezing point : Not available.

Initial Boiling Point : Not available.

Boiling point, initial boiling point, and boiling range : Not available.

Flash point : Closed cup: >93.4°C (>200.1°F) [TCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure : Not available.

Relative vapor density : >1 [Air = 1]

Section 9. Physical and chemical properties

Relative density : 1.019 (15.6°C)

Density : 8.48 (lbs/gal)

Solubility in water : Soluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : -1°C (30.2°F)

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

No available toxicity data.

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

No available toxicity data.

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

Not applicable.

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
TRETOLITE™ RBW6560 WATER CLARIFIER	Acute EC50 >1000 mg/l	Algae	96 hours
	Acute EC50 810 mg/l	Algae	96 hours
	Acute LC50 >3200 mg/l	Fish	96 hours
	Acute LC50 >3200 mg/l	Fish	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Additional information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

DOT Reportable Quantity Not applicable.

Marine pollutant Not available.

North-America NAERG : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.
TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b): All components are active or exempted.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
None of the components are listed.				

SARA 302/304 : No products were found.

SARA 311/312

Classification : Not applicable.

SARA 313

Supplier notification : No products were found.

California Prop. 65

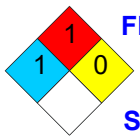
This product does not require a Safe Harbor warning under California Prop. 65.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



Flammability
Health
Instability
Special

History

Date of printing : 1/19/2023

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Section 16. Other information

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : FORSA™ SCW4056 SCALE INHIBITOR
™ a trademark of Baker Hughes Incorporated.

Product code : SCW4056

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scale Inhibitor.

Print date : 4/6/2017

Validation date : 4/6/2017

Version : 2.01

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CANUTEC: 613-996-6666 (Canada 24 hours)
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
RESPIRATORY SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Causes serious eye irritation.
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Precautionary statements

Prevention : Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. 4H gloves.. Wear eye or face protection. Wear respiratory protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Section 2. Hazards identification

Response : IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Phosphonate salt	10 - 20	Trade secret.
Sodium bisulfite	0.1 - 1	7631-90-5

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Section 4. First aid measures

Inhalation : wheezing and breathing difficulties,asthma

Skin contact : irritation,redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides,phosphorus oxides,halogenated compounds,metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Phosphonate salt	None.
Sodium bisulfite	**ACGIH TLV (United States, 3/2015).** TWA: 5 mg/m³, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³, 0 times per shift, 8 hours.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: Nitrile or Neoprene gloves. 4H gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Color : Yellow. to Yellow. [Light]

Odor : Mild.

Odor threshold : Not available.

pH : 4.6

: 5% in water

Melting/freezing point : Not available.

Boiling point : 100°C (212°F)

Initial Boiling Point : Not available.

Flash point : Closed cup: >93.4°C (>200.1°F) [SFCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 20.7 kPa (155.1 mm Hg (3 psig)) @ 54.44°C (130 F) (Reid)

Vapor density : >1 [Air = 1]

Relative density : 1.1035 (15.6°C)

Density : 9.19 (lbs/gal)

Solubility in water : Soluble

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Section 9. Physical and chemical properties

VOC : Not available.

Pour Point : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium bisulfite	LD50 Oral	Rat	2 g/kg	-

Irritation/Corrosion

No applicable toxicity data

Sensitization

No applicable toxicity data

Mutagenicity

No applicable toxicity data

Carcinogenicity

No applicable toxicity data

Reproductive toxicity

No applicable toxicity data

Teratogenicity

No applicable toxicity data

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Sodium bisulfite	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	78188.5 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium bisulfite	Acute LC50 1.94 ppm Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 119000 µg/l Fresh water	Daphnia - Daphnia magna - Adult	48 hours
	Acute LC50 26.2 ppm Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

DOT Reportable Quantity Not applicable.

Marine pollutant Not available.

North-America NAERG : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Sodium bisulfite

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
None of the components are listed.				

Section 15. Regulatory information

SARA 302/304 : No products were found.

SARA 311/312

Classification : Immediate (acute) health hazard

SARA 313

Supplier notification : No products were found.

Canada

Canada (CEPA DSL): : At least one component is not listed.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 4/6/2017

Notice to reader

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This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : FORSA™ SRW156 SCALE INHIBITOR
™ a trademark of Baker Hughes Incorporated.

Product code : SRW156

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scale Inhibitor.

Print date : 1/20/2023

Validation date : 1/20/2023

Version : 4.01

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
CARCINOGENICITY - Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May be corrosive to metals.
Causes severe skin burns and eye damage.
Harmful if inhaled.
Suspected of causing cancer.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep only in original packaging. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.

Section 2. Hazards identification

Response : Absorb spillage to prevent material damage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up. Store in a corrosion resistant container with a resistant inner liner.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Additional information

Corrosive to aluminum and steel.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Sodium edetate	30 - 40	Trade secret.
Sodium hydroxide	1 - 5	1310-73-2
Trisodium nitrilotriacetic acid	0.1 - 1	5064-31-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.

Inhalation : Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:,pain,watering,redness

Inhalation : No specific data.

Skin contact : pain or irritation,redness,blistering may occur

Ingestion : Adverse symptoms may include the following:,stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides,metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in a corrosion resistant container with a resistant inner liner. Store locked up. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Sodium edetate	None.
Sodium hydroxide	**ACGIH TLV (United States, 4/2014).** C: 2 mg/m³, 0 times per shift, 0 hours. **NIOSH REL (United States, 10/2013).** CEIL: 2 mg/m³, 0 times per shift, 0 hours. **OSHA PEL (United States, 2/2013).** TWA: 2 mg/m³, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989).** CEIL: 2 mg/m³, 0 times per shift, 0 hours.
Trisodium nitrilotriacetic acid	None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection : Chemical-resistant gloves.

Skin protection : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid. [ ]

Color : Yellow. [Light]

Odor : Amine like. [Slight]

Odor threshold : Not available.

pH : 11 to 11.8

: Neat-without dilution.

Melting point/freezing point : -31°C (-23.8°F)

Initial Boiling Point : Not available.

Section 9. Physical and chemical properties

Boiling point, initial boiling point, and boiling range : 106°C (222.8°F)

Flash point : Closed cup: >93.4°C (>200.1°F) [TCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure : 20.7 kPa (155.1 mm Hg (3 psig)) @ 54.44°C (130 F) (Reid)

Relative vapor density : >1 [Air = 1]

Relative density : 1.31 (15.6°C)

Density : 10.91 (lbs/gal)

Solubility in water : Soluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, metals, acids, alkalis and moisture.
This material is highly corrosive and may react with metals to produce flammable hydrogen gas. Do not use aluminum, copper/copper alloys, or zinc for transportation, handling, or storage. Do not use mild steel for transportation, handling or storage.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
FORSA™ SRW156 SCALE INHIBITOR	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3030 mg/kg	-
Sodium edetate	LD50 Oral	Rat	10 g/kg	-
Trisodium nitrilotriacetic acid	LD50 Oral	Rat	1100 mg/kg	-

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Trisodium nitrilotriacetic acid	-	2B	-

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Not applicable.

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:,pain,watering,redness

Inhalation : No specific data.

Skin contact : pain or irritation,redness,blistering may occur

Ingestion : Adverse symptoms may include the following:,stomach pains

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
FORSA™ SRW156 SCALE INHIBITOR	3030	Not available.	Not available.	Not available.	3.8
Sodium edetate	500	Not available.	Not available.	Not available.	1.5
Trisodium nitrilotriacetic acid	1100	Not available.	Not available.	Not available.	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium edetate	Acute LC50 486000 to 500000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Trisodium nitrilotriacetic acid	Acute LC50 185000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 560000 to 1000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 252000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 100000 µg/l Fresh water	Algae - Algae - Exponential growth phase	96 hours
	Chronic NOEC 100000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Persistence and degradability

Not available.

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Sodium edetate	5.01	1.8	low
Trisodium nitrilotriacetic acid	-2.62	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN3267	UN3267	UN3267	UN3267
UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Contains: Sodium edetate, Sodium hydroxide)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Contains: Sodium edetate, Sodium hydroxide)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Contains: Sodium edetate, Sodium hydroxide)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Contains: Sodium edetate, Sodium hydroxide)
Transport hazard class(es)	8 	8 	8 	8 
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.

Additional information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).

IMDG : **Emergency schedules** F-A S-B

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

DOT Reportable Quantity Sodium hydroxide, 6111 gal of this product.

Section 14. Transport information

Marine pollutant Not available.

North-America NAERG : 153

Section 15. Regulatory information

U.S. Federal regulations :

TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are active or exempted.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: sodium hydroxide

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
None of the components are listed.				

SARA 302/304 : No products were found.

SARA 311/312

Classification :
CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
CARCINOGENICITY - Category 2

SARA 313

Supplier notification : No products were found.

California Prop. 65

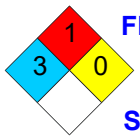
This product does not require a Safe Harbor warning under California Prop. 65.

Canada

Canada (CEPA DSL): : All components are listed or exempted.

Section 16. Other information

National Fire Protection Association (U.S.A.)



Flammability
Health
Instability
Special

History

Date of printing : 1/20/2023

Key to abbreviations :
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Section 16. Other information

Indicates information that has changed from previously issued version.

Notice to reader

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.

SAFETY DATA SHEET

Section 1. Identification

Product name : WCW7918 COMBINATION INHIBITOR

Product code : WCW7918

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scale and Corrosion inhibitor

Print date : 4/9/2020

Validation date : 4/8/2020

Version : 2.01

Supplier's details : Baker Petrolite LLC
12645 W. Airport Blvd.
Sugar Land, TX 77478
For Product Information/SDSs Call: 800-231-3606
(8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

Emergency telephone number (with hours of operation) : CHEMTREC: 800-424-9300 (U.S. 24 hour)
Baker Petrolite: 800-231-3606
(001)281-276-5400
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (optic nerve) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (heart, liver) - Category 2
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

Hazard statements : Flammable liquid and vapor.
Toxic if swallowed, in contact with skin or if inhaled.
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
Causes damage to organs. (optic nerve)
May cause damage to organs through prolonged or repeated exposure. (heart, liver)
Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wear protective gloves: > 8 hours (breakthrough time): Nitrile or Neoprene gloves. 4H gloves. Butyl rubber gloves.. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response : Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Methanol	30 - 40	67-56-1
Amine salts	10 - 20	Trade secret.
2-Butoxyethanol	5 - 10	111-76-2
Phosphonate salt	1 - 5	Trade secret.
Sulfur compound	1 - 5	Trade secret.
Oxyalkylated alkylphenol	0.1 - 1	Trade secret.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention. If necessary, call a poison center or physician.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Skin contact : Toxic in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact : pain or irritation,watering,redness

Inhalation : No specific data.

Skin contact : irritation,redness,dryness,cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : carbon dioxide,carbon monoxide,nitrogen oxides,sulfur oxides,phosphorus oxides, halogenated compounds,metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 6. Accidental release measures

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Methanol	**ACGIH TLV (United States, 3/2019). Absorbed through skin.** STEL: 328 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 262 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016). Absorbed through skin.** STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 10 hours. TWA: 200 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 260 mg/m³, 0 times per shift, 8 hours. TWA: 200 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** STEL: 325 mg/m³, 0 times per shift, 15 minutes. STEL: 250 ppm, 0 times per shift, 15 minutes. TWA: 260 mg/m³, 0 times per shift, 8 hours.

Section 8. Exposure controls/personal protection

	TWA: 200 ppm, 0 times per shift, 8 hours.
Amine salts	None.
2-Butoxyethanol	**ACGIH TLV (United States, 3/2019).** TWA: 20 ppm, 0 times per shift, 8 hours. **NIOSH REL (United States, 10/2016). Absorbed through skin.** TWA: 24 mg/m³, 0 times per shift, 10 hours. TWA: 5 ppm, 0 times per shift, 10 hours. **OSHA PEL (United States, 5/2018). Absorbed through skin.** TWA: 240 mg/m³, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours. **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.** TWA: 120 mg/m³, 0 times per shift, 8 hours. TWA: 25 ppm, 0 times per shift, 8 hours.
Phosphonate salt	None.
Sulfur compound	**AIHA WEEL (United States, 7/2018). Absorbed through skin.** TWA: 0.2 ppm, 0 times per shift, 8 hours.
Oxyalkylated alkylphenol	None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.

Hand protection : Chemical-resistant gloves: Nitrile or Neoprene gloves. 4H gloves. Butyl rubber gloves.

Skin protection : Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory protection : If a risk assessment indicates it is necessary, use a properly fitted supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Color : Amber.

Odor : Pungent.

Odor threshold : Not available.

pH : 6.5

: Neat - without dilution.

Melting/freezing point : -62.2°C (-80°F)

Boiling point : Not available.

Initial Boiling Point : Not available.

Flash point : Closed cup: 26.67°C (80°F) [SFCC]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : >1 [Air = 1]

Relative density : 0.9772 (15.6°C)

Density : 8.14 (lbs/gal)

Solubility in water : Soluble

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

VOC : Not available.

Pour Point : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Section 10. Stability and reactivity

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, reducing materials and alkalis.
Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium – including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Human	500 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
2-Butoxyethanol	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LC50 Inhalation Vapor	Rat	2.2 mg/l	4 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Dermal	Rabbit	200 mg/kg	-
	LD50 Dermal	Rabbit	99 mg/kg	-
	LD50 Oral	Guinea pig	500 to 2000 mg/kg	-
	LD50 Oral	Rabbit	320 mg/kg	-
Sulfur compound	LC50 Inhalation Vapor	Rat - Male	2 mg/l	4 hours
	LD50 Dermal	Rabbit	112 to 224 mg/kg	-
	LD50 Oral	Rat	98 to 162 mg/kg	-

Irritation/Corrosion

No available toxicity data.

Sensitization

No available toxicity data.

Mutagenicity

No available toxicity data.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

No available toxicity data.

Teratogenicity

No available toxicity data.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methanol	Category 1	Oral	optic nerve

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Sulfur compound	Category 2	Not determined	heart and liver

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Toxic if inhaled. Causes damage to organs following a single exposure if inhaled.

Skin contact : Toxic in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Toxic if swallowed. Causes damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : pain or irritation,watering,redness

Inhalation : No specific data.

Skin contact : irritation,redness,dryness,cracking

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
WCW7918 COMBINATION INHIBITOR	273.1	628.5	Not available.	8.5	Not available.
Methanol	100	300	64000	3	Not available.
Amine salts	500	Not available.	Not available.	Not available.	Not available.
2-Butoxyethanol	500	1100	Not available.	11	Not available.
Sulfur compound	100	50	Not available.	3	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 mg/l Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)	FLAMMABLE LIQUID, N.O.S. (Contains: Methanol)
Transport hazard class(es)	3 	3 	3 	3 
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.

Additional information

DOT Classification : **Reportable quantity** 16622.3 lbs / 7546.5 kg [2040.1 gal / 7722.6 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

DOT Reportable Quantity Methanol, 2042 gal of this product.

Marine pollutant Not available.

North-America NAERG : 128

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 12(b) one-time export**: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Ethylbenzene; Naphthalene

Clean Water Act (CWA) 311: Sodium bisulfite; Xylene; Ethylbenzene; Naphthalene; Potassium hydroxide; sodium hydroxide; Formic acid

United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

Section 15. Regulatory information

List name	Status	Ingredient name	Name on list	Conc.
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Xylene	Xylenes	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Ethylbenzene	Ethyl benzene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Cumene	Cumene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Naphthalene	Naphthalene	0 - 0.1
United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Methanol	Methanol	30 - 40

SARA 302/304 : No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (optic nerve) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (heart, liver) - Category 2
HNOC - Defatting irritant

SARA 313

	Product name	CAS number	%
Supplier notification	Methanol 2-Butoxyethanol Oxyalkylated alkylphenol	67-56-1 111-76-2 Trade secret.	30 - 40 5 - 10 Trade secret.

California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including cumene, ethylbenzene and naphthalene, which are known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada

Canada (CEPA DSL): : At least one component is not listed.

Section 16. Other information

National Fire Protection Association (U.S.A.)



History

Date of printing : 4/9/2020

Notice to reader

Section 16. Other information

NOTE: The information on this SDS is based on data which is considered to be accurate. Baker Hughes, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.


N
72
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107
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22
22
70
70
34
Legend
Transformer (ID#)
Oil Well
107
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Flow
Injection Line
Flow
North Bolsa Oil Pipeline
Flow
South Bolsa Oil Pipeline
Underground Crossing
Bolsa Chica
Aerial Basemap Credits: Image courtesy of USGS © 2012
Microsoft Corporation Image courtesy of LAR-IAC
Bolsa Chica North
Huntington Beach, California
600 300 0 600 1,200
Feet
By:
Geosyntec
consultants
Revisions by: Tetra Tech, Inc.
August 2012
Figure
4


N
70
107
84
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82
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22
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107
78
63
34
Legend
Transformer (ID#)
Oil Well
107
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Storm Drain
Flow
Injection Line
Flow
North Bolsa Oil Pipeline
Flow
South Bolsa Oil Pipeline
Underground Crossing
Bolsa Chica
Aerial Basemap Credits: Image courtesy of USGS © 2012
Microsoft Corporation Image courtesy of LAR-IAC
Bolsa Chica South
Huntington Beach, California
400 200 0 400 800
Feet
By:
Geosyntec
consultants
Revisions by: Tetra Tech, Inc.
August 2012
Figure
5

Area A

Area B

Area C

Area D

MAT 1

MAT 2

MAT 3

MAT 4

MAT 5

MAT 6

MAT 7

MAT 8

MAT 9

MAT 10

MAT 11

MAT 12

MAT C-8

MAT 22

MAT 22-A

Legend

- Transformer (ID#)
- 34 — Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Flow — Injection Line
- Flow — Oil Pipeline
- Flow — Flow Direction
- MAT Area
- Tank
- Highlands

Aerial Basemap Credits: Image courtesy of USGS © 2012
Microsoft Corporation Image courtesy of LAR-IAC

Highlands Key Map

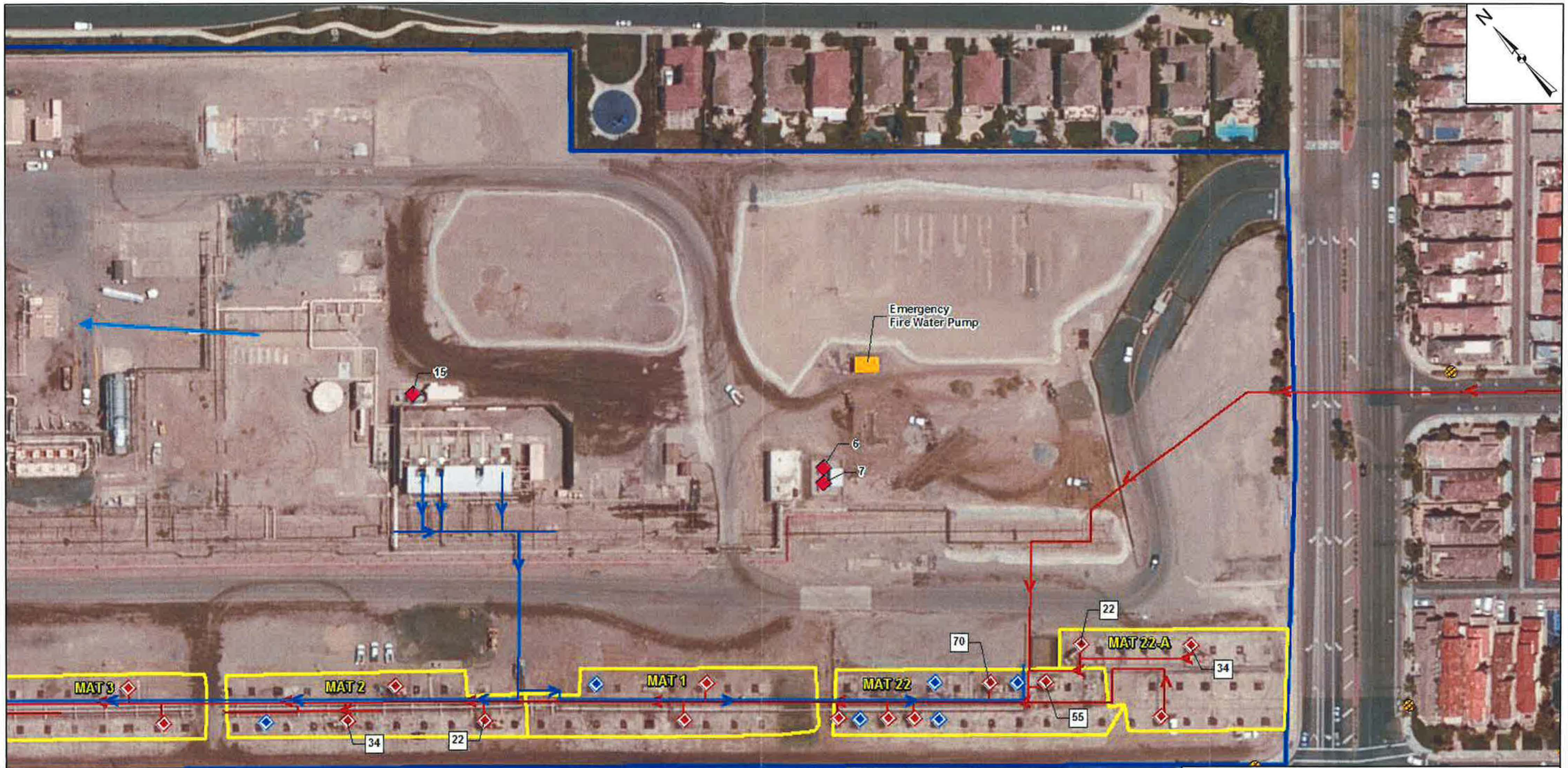
Huntington Beach, California

500 250 0 500 1,000 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure 6



Legend

- Transformer (ID#)
- Oil Well
- 34 Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Mobile/Portable Container
- Injection Line Flow
- Oil Pipeline Flow
- Flow Direction Flow
- MAT Area
- Highlands

Aerial Basemap Credits: © 2012 Microsoft Corporation
Image courtesy of LAR-IAC

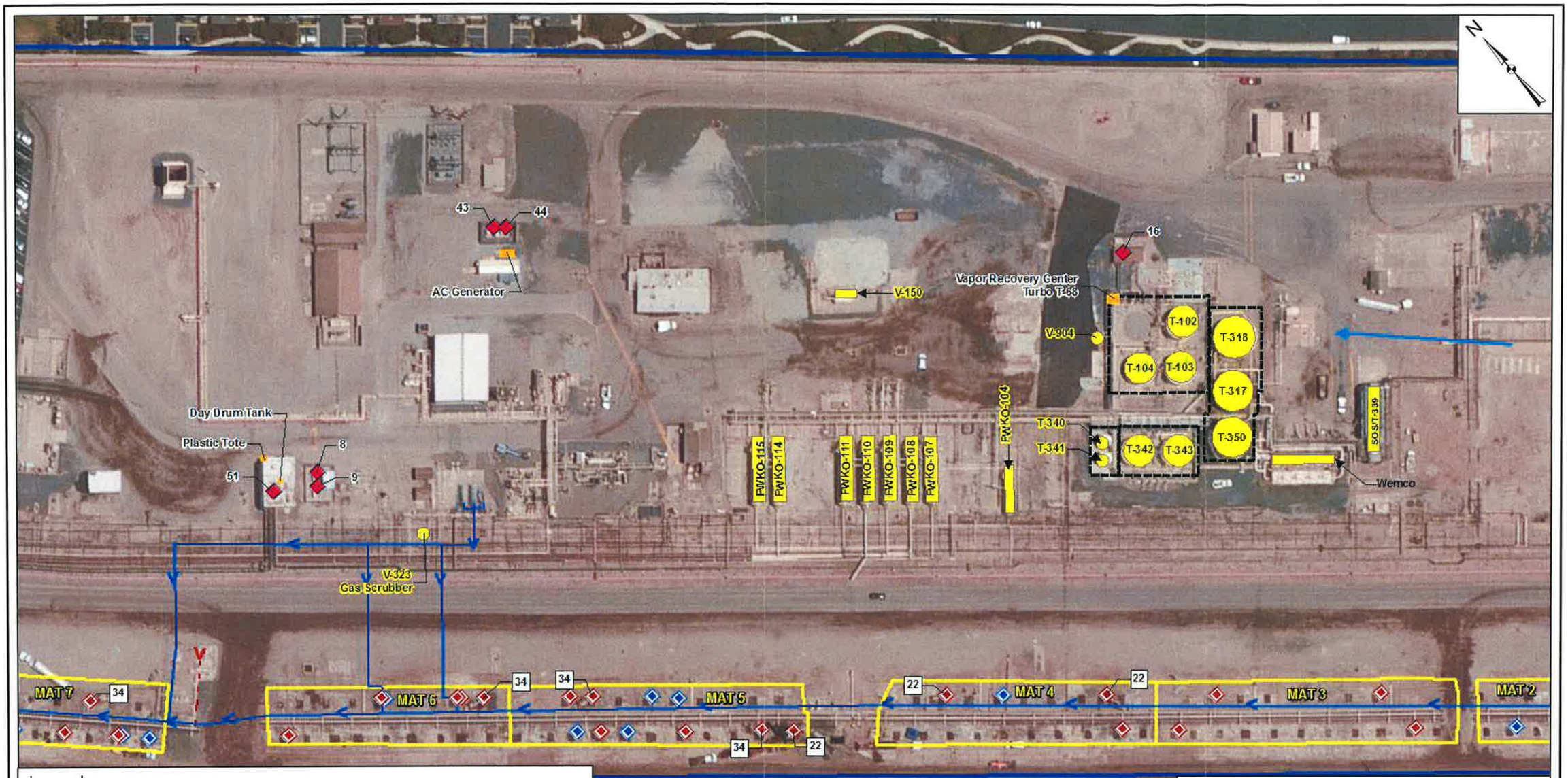
Highlands
MAT 1, MAT 2, MAT 22, and MAT 22-A
Huntington Beach, California

100 50 0 100 200 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
6A



Legend

- Transformer (ID#)
- Oil Well
- Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Tanks
- MAT Area
- Injection Line
- Oil Pipeline
- Oil Test Line
- Flow Direction
- Highlands
- Mobile/Portable Container

Service Layer Credits: © 2012 Microsoft Corporation
Image courtesy of LAR-IAC

Highlands
MAT 3 to MAT 6
Huntington Beach, California

100 50 0 100 200 Feet

By: Geosyntec consultants

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August 2012

Figure **6B**



Legend

- Transformer (ID#)
- Oil Well
- Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- MAT Area
- Injection Line
- Oil Pipeline
- Flow Direction
- Highlands
- Mobile/Portable Container

Aerial Basemap Credits: © 2012 Microsoft Corporation
Image courtesy of LAR-IAC

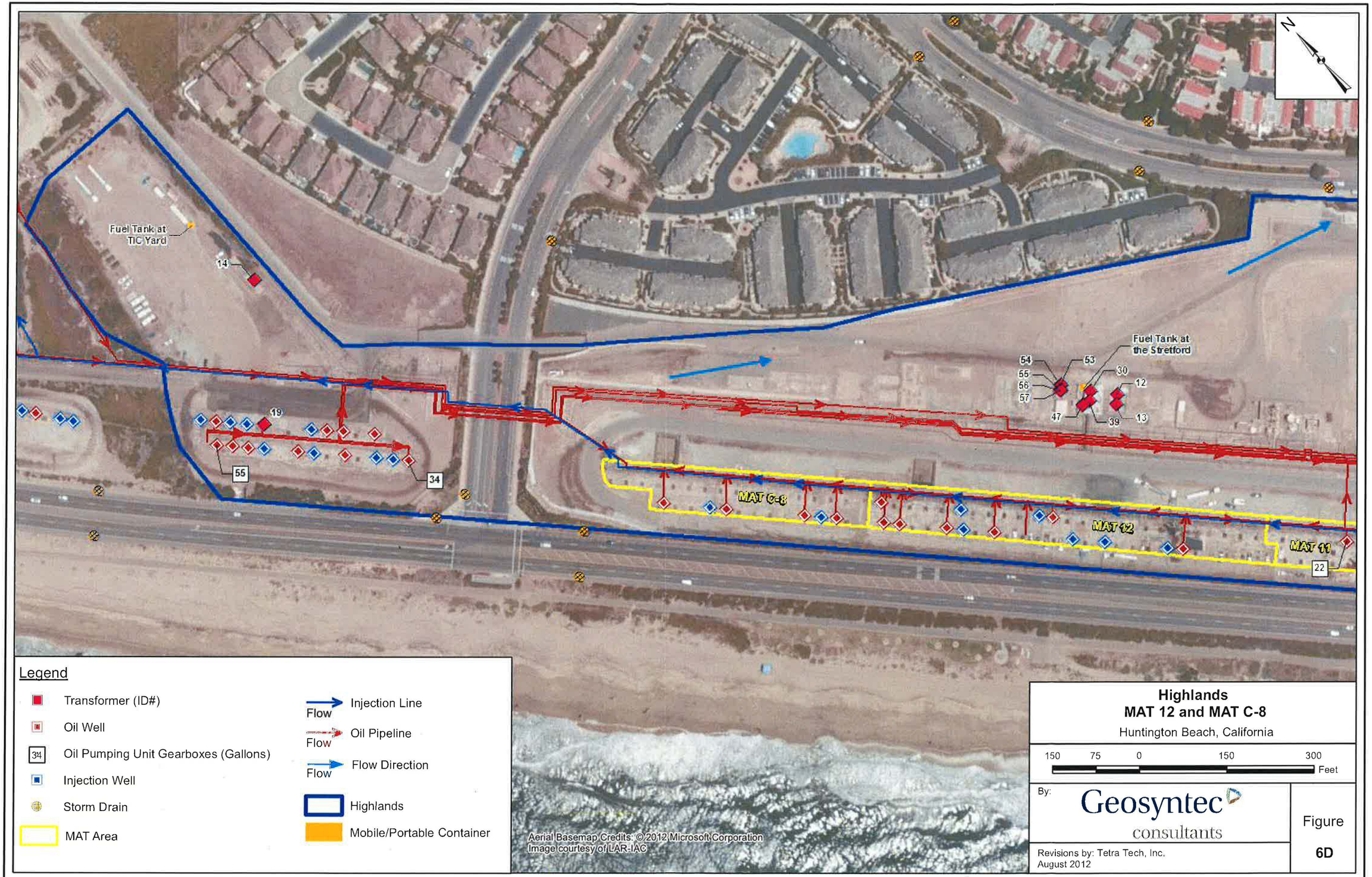
Highlands
MAT 7 to MAT 11
Huntington Beach, California

150 75 0 150 300 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
6C



Highlands
MAT 12 and MAT C-8
Huntington Beach, California

150 75 0 150 300 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
6D



Example View of Variable Location Containers

Huntington Beach, California

150 75 0 150 300 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure 7



Pipeline to Plattform Emmy

Huntington Beach, California

1,200 600 0 1,200 2,400 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure 8



Legend

- Transformer (ID#)
- Diesel Tote
- Underneath Drill Rig

Plattform Emmy Containers
Drilling Deck

Huntington Beach, California

20 10 0 20 40
Feet

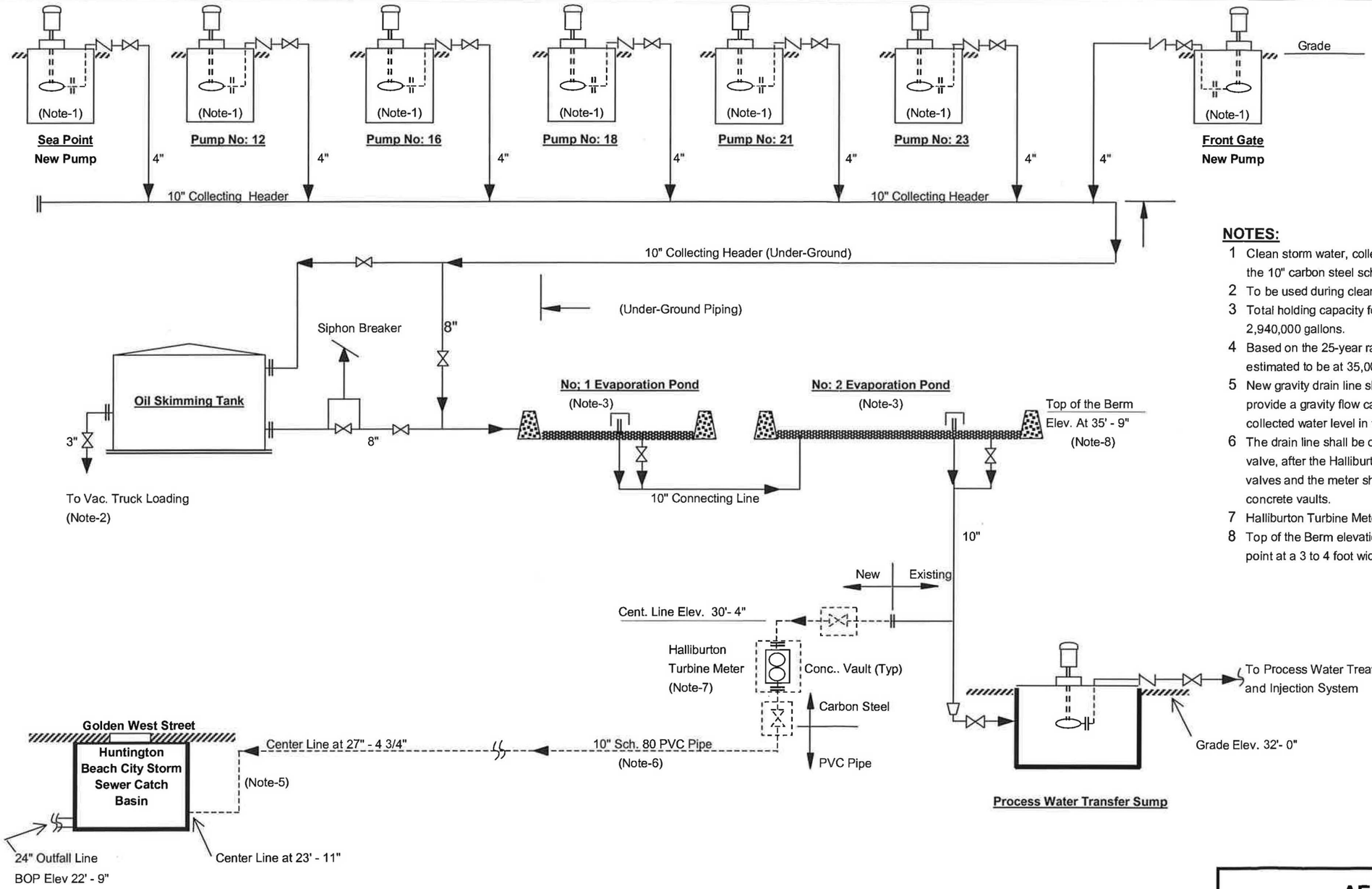
By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
9A







NOTES:

1. Clean storm water, collected only in the designated sumps, is pumped to the 10" carbon steel sch-40 collecting header.
2. To be used during cleaning and maintenance operations.
3. Total holding capacity for both evaporation ponds is 70,000 bbls, or 2,940,000 gallons.
4. Based on the 25-year rain for the area, the total one-day storm water is estimated to be at 35,000 bbls/24 hour, or 1,470,000 gallons.
5. New gravity drain line shall be a 10" sch-80 pipe, which is estimated to provide a gravity flow capacity of about 450 to 880 gpm, depending on collected water level in the ponds.
6. The drain line shall be of PVC Sch-80 piping material beyond the second valve, after the Halliburton Turbine Meter. For protection purposes, both valves and the meter shall be installed inside of individual under-ground concrete vaults.
7. Halliburton Turbine Meter with mechanical flow analyzer.
8. Top of the Berm elevation varies from 35' - 0" to 35' - 9" with the lowest point at a 3 to 4 foot wide depression for storm water overflow.

AERA ENERGY LLC

Huntington Beach Highlands Area

Clean Storm Water Collection System Flow Diagram

Scale:	None		**Date:**	7/12/2002
By:	FM/TR	**DWG No: PD-01**	**Rev.**	0

MATCHLINE E. 1368'-0"

HUNTINGTON BEACH EASEMENT

12"WR-913-STD/K4-150# (323'-0")

TRUCK UNLOADING

OXY TK.

PLANT NORTH

TRUE NORTH

ELECT

TANK FARM

ENTRANCE

FENCE

EXISTING GENERATOR FOUNDATIONS

12"WR-913-STD/K4-150# (275'-0") EL 97'-6"

MATCHLINE N. 62'-0" - DRAWING 078-92-009AE

DETAIL # 2 DWG: 078-92-009AG

HOLD

90 003

90 002

12"WR-900-STD/K4-150#

12"WR-902-STD/K4-150#

12"WR-900-STD/K4-150# (565'-0") EL 97'-6"

EXISTING LIGHTPOST (TYP 3)

5'-0"±

PIT

GUARD HOUSE

SEE DET. "3" DWG.# D78-92-009AG

FIRE DEPT. PUMPER STATION

PAVED ROAD

GOLDENWEST AVE

MATCHLINE N. 977'-0"

90'-0"

WALNUT ST.

240'-0"

PLC-4 (EXIST)

INJECTION PLANT 4 AREA

AWT"D" AWT"F" AWT"B"

MCC-1

PIT-1

MCC BLDG

12"WR-901-STD/K4-150# (170'-0") EL 97'-6"

6"-150# RF BLD FLG

DETAIL #2

EXIST. SUPT.

90 010

8"-150# RF BLIND FLANGE

(60'-0")

(75'-0")

(27'-0")

90 008

8" EXIST.

(100'-0")

(19'-6")

(5'-0")

90 006

12"WR-901-STD/K4-150# (EXIST)

6"-150# RF BLIND FLANGE

90 007

12"-150# RF BLIND FLANGE

90 009

CUARDRAIL

BRIDGE

12" FIREWATER SOURCE (EXIST)

MAIN PIPE CHASE

90 004

CUARDRAIL

90 005

6"WR-915-STD/K4-150#

SEE DETAILS "J", "K", & "L" DWG: 078-92-009AH

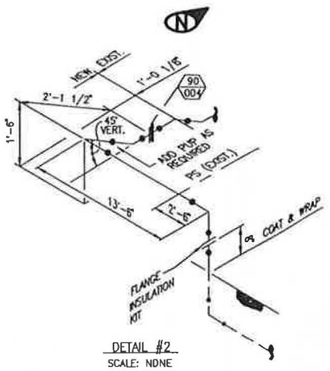
CONTRACTOR TO DETERMINE DETAIL DIMENSIONS.

6"-150# RF BLD FLG

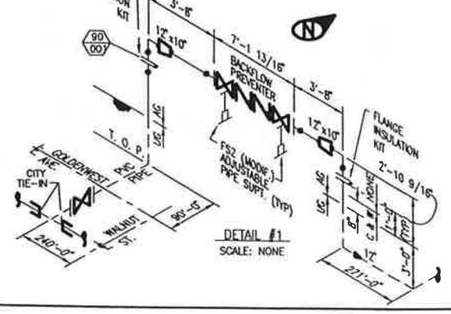
EXIST. NEW

UNPAVED ROAD

SEE DETAIL #1 & PLAN DWG. "A" THIS DRAWING

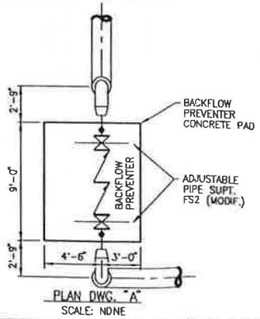


DETAIL #2
SCALE: NONE



DETAIL #1
SCALE: NONE

MATCHLINE E. 759'-0"



PLAN DWG. "A"
SCALE: NONE

0' 50' 100'
1" = 40'-0"
REDUCED PRINT SCALE

DWG NUMBER	TITLE
	REFERENCE DRAWINGS

REV: /bah75cb7/ba20rhm 03/01/1995 6:56 AM LM 330

FLUOR DANIEL

ENGINEERING BAKERSFIELD CALIFORNIA

FILENAME: 4246D9AF

FAC PROJ ENGR					
TECH MGR					
OPERATIONS					
HS&E					
CONSTRUCTION	12DC093	1	ISSUED AFC	FEV	
	08DC183	0	ISSUED FOR REFERENCE	DLN	
	DATE	REV	DESCRIPTION	BY	APPR

RELEASED ONLY FOR

	FAC PROJ ENGR	TECH MGR	DATE
APPR			
BID			
CONT			

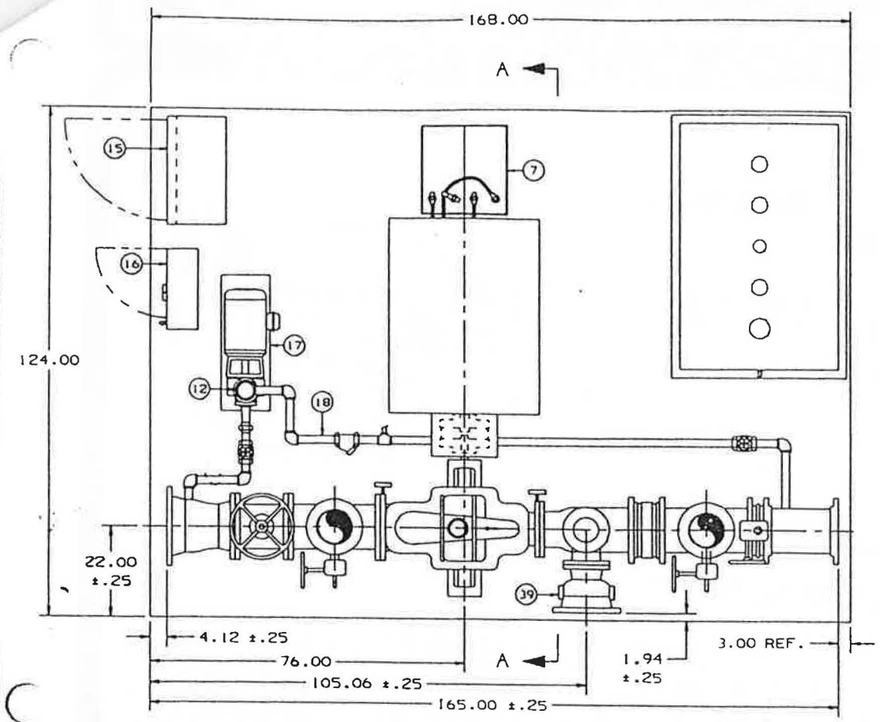
NOT "CVERTED" BY CalResources

CalResources

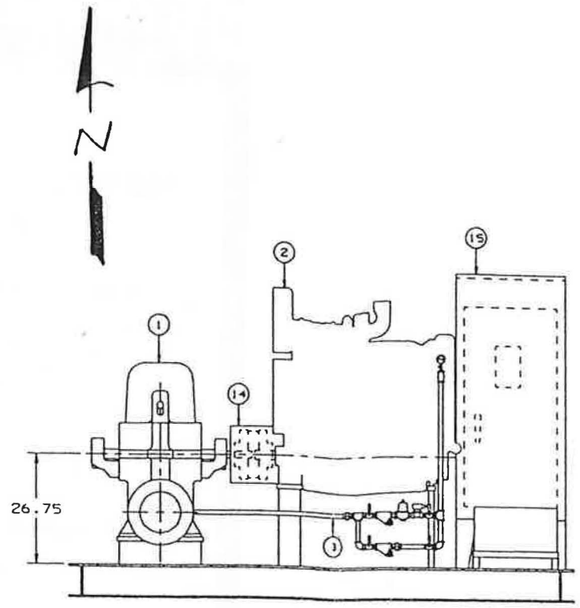
FIREWATER ROUTING PLAN
FIREWATER PUMP AREA
GAS PROCESSING PROJECT
HUNTINGTON BEACH FIELD, ORANGE CO., CA.

DGN: A. ERBERICH	DATE: 07OCT93	DFV: WCPC
DWN: D. L. NGUYEN	NO. 078-92-009AF	
SCALE: 1"=40'-0"		

CAD FILE NO. B9500085



PLAN VIEW



SECTION "A-A" LESS PIPING

ITEM NO.	REQ.	DESCRIPTION	PART NUMBER	APPROX. WEIGHT
1	1	10X8X20F FIRE PUMP (CW ROTATION)	1-5224-95262-02	1275
2	1	GM CLARKE DDFP-04AT DIESEL ENGINE (CW ROTATION)	52-432-283-123	2070
3	1	HEAT EXCHANGER LOOP 1 1/4"	52-431-194-801	100
4	1	300 GALLON FUEL TANK	52-260-002-802	320
5	1	FUEL SYSTEM ASSEMBLY	52-328-500-807	40
6	1	FUEL SAFETY RESERVOIR	52-360-031-501	317
7	1	BATTERY, RACK AND CABLE ASSEMBLY	52-236-272-801	265
8	1	FLEX EXHAUST CONNECTOR	52-328-465-503	10
9	1	6" MUFFLER, NELSON RES MODEL 41260-F	52-128-120-007	110
10	1	SUCTION GAUGE ASSEMBLY	52-236-232-802	2
11	1	DISCHARGE GAUGE ASSEMBLY	52-236-233-802	2
12	3	AUTOMATIC AIR RELEASE VALVE	52-126-407-004	5
13	1	CASING RELIEF VALVE 3/4"	52-126-401-001	5
14A	1	FALK COUPLING - PUMP HUB	52-219-926-363	8
14B	1	FALK COUPLING - COVER & GRID ASS'Y.	52-113-985-350	8
14C	1	COUPLING GUARD	52-237-686-808	12
15	1	FIRETROL FTA-1100 MAIN FIRE PUMP CONTROLLER	JM-103-110-109	350
16	1	FIRETROL FTA-500A JOCKEY PUMP CONTROLLER	JM-110-752-119	50
17	1	1 1/2x1 1/2x9 2000 SERIES JOCKEY PUMP	1-5227-95262-03	175
18	1	1 1/4 JOCKEY PUMP PIPING ASS'Y.	52-431-812-802	55
19	1	FABRICATED BASE ASSEMBLY	52-461-364-501	2307
20	2	PRESSURE SENSING LINE	52-236-404-501	40
21	1	12" 150# WELD NECK FLANGE	52-238-860-015	80
22	1	12x10 ECCENTRIC WELD REDUCER	CP-715-051-385	14
23	1	10" 150# WELD NECK FLANGE	52-238-860-014	52
24	1	10" KENNEDY OS&Y GATE VALVE W/ 125# FLG.	52-241-269-008	447
25	1	10" NIBCO WAFER STYLE BUTTERFLY VALVE	52-237-346-008	84
26	1	10" NIBCO WAFER STYLE CHECK VALVE	52-127-340-004	78
27	2	10" 150# SLIP-ON FLANGE	CP-719-361-040	86
28	1	10X8X6 C.I. TEE W/ 125# FLG.	52-236-178-026	210
29	2	10X10X8 C.I. TEE W/ 125# FLG.	52-236-178-030	450
30	1	10" SCHED. 40 PIPE X 16.12 LG.	50-419-269-016	55
31	2	8" 90° LONG RADIUS WELD ELBOW	CP-715-113-032	100
32	2	8" 150# SLIP-ON FLANGE	CP-719-361-032	60
33	2	8" NIBCO WAFER STYLE BUTTERFLY VALVE	52-237-346-007	90
34	2	8" SCHED. 40 PIPE X 29.06 LG.	50-419-289-029	139
35	1	8" SCHED. 40 PIPE X 40.00 LG.	50-419-289-040	96
36	1	8" SCHED. 40 PIPE X 16.88 LG.	50-419-289-017	41
37	1	8" GERAND FLOW METER MODEL K-2000-8 B.W.	52-238-642-014	30
38	1	6" WATTS MAIN RELIEF VALVE W/ 125# FLG.	52-126-534-003	120
39	1	6X10 CLOSED WASTE CONE	52-430-737-505	98
40	1	FLOW SWITCH MODEL FS4-3 (MUTUAL MFG)	GV-439-526-201	2
41	1	6 X 5 90° LONG RADIUS ELBOW W/ 125# FLG.	52-237-324-013	75
97	1	MISC. COMPONENETS	52-160-230-801	-
98	1	WIRING DIAGRAM (ENGINE TO CONTROLLER)	52-329-241-802	-
99	1	WIRING DIAGRAM (JOCKEY PUMP TO CONTROLLER)	52-329-240-802	-
		APPROX. TOTAL WEIGHT		9953

SM	MG	4/14/94
01	MG	4/15/94

ITEM 9 WAS 5" MUFFLER ADDED ITEM 41 PER CUST. REQUESR

02	MG	6/6/94

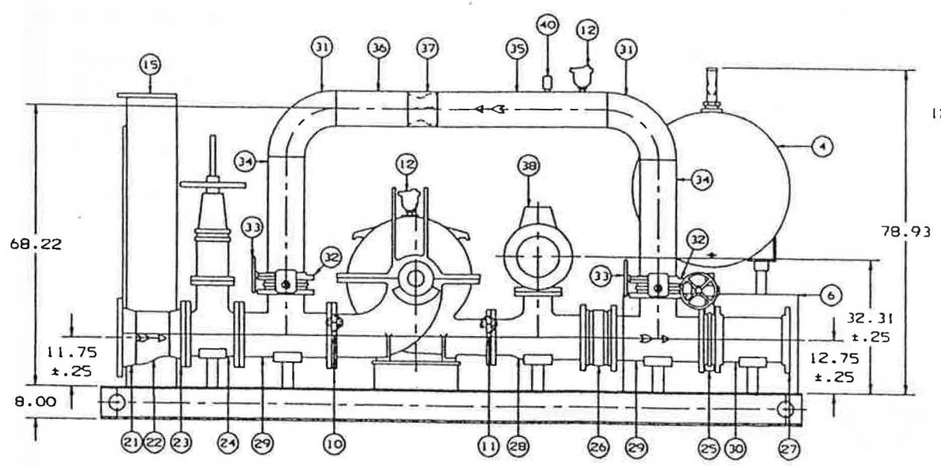
NOTE 12 (PIPING DRAINS) WAS REMOVED. DRAWING UPDATED PER CUSTOMER REQUEST.

03	MG	7/20/94

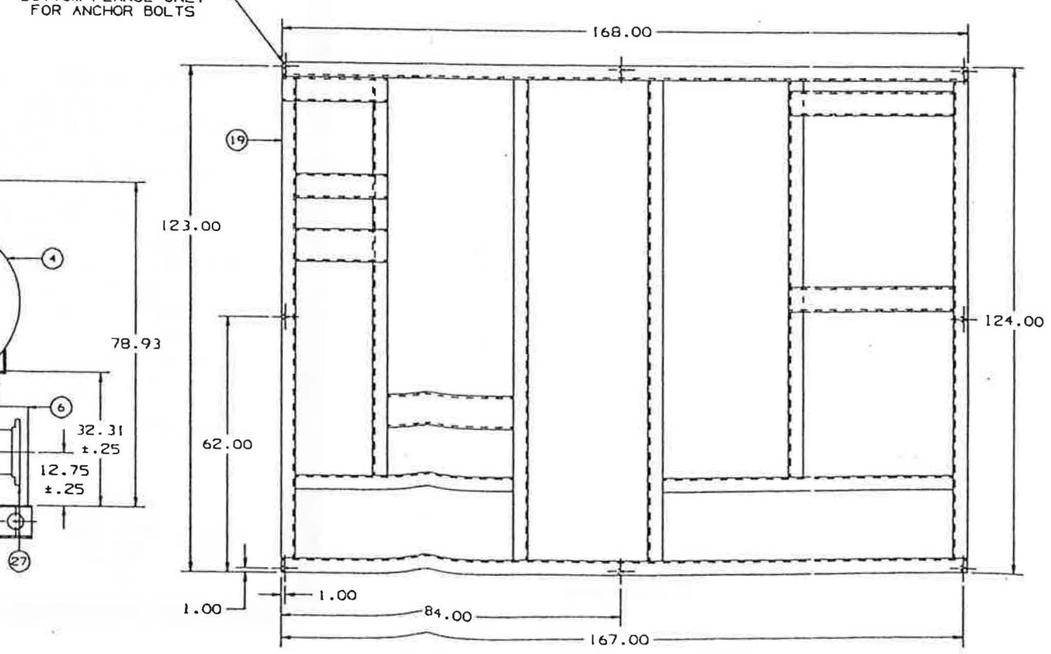
FLUOR DANIEL

A - PROCEED

AUTHORIZATION TO PROCEED DOES NOT RELIEVE CONTRACTOR/VENDOR OF RESPONSIBILITY OR LIABILITY UNDER THE CONTRACT/PURCHASE ORDER



ELEVATION VIEW



BASE DETAIL / ANCHOR BOLT LOCATION

H.B. GAS PROCESSING PROJECT

20-Sep-94

FLUOR DANIEL Cont'l No.: 424601

36180-2-1

TAG/ITEM NO.: ME-100

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL CONTROLS TO BE PRE-WIRED BY ITT A-C PUMP.
3. THE FOLLOWING ITEMS ARE SUPPLIED BY ITT A-C PUMP BUT ARE NOT SHOWN: 5,8,9,13,20 & 41.
4. THE FOLLOWING ITEMS ARE SUPPLIED BY ITT A-C PUMP, SHIPPED LOOSE AND FIELD MOUNTED BY OTHERS: 8,9 & 41.
5. CUSTOMER PIPING MUST BE SUPPORTED NEAR ALL INTERFACE CONNECTIONS TO ELIMINATE STRAIN.
6. ALL FLANGES ARE 125# F.F. PER ANSI B16.1 STANDARDS UNLESS OTHERWISE SPECIFIED.
7. UNLESS SPECIFIED, DIMENSIONS ARE NOMINAL AND ARE SUBJECT TO NORMAL CONSTRUCTION TOLERANCES.
8. REFER TO WIRING DIAGRAM: (SEE ITEM 98 & 99)
9. FOUNDATION BOLTS ARE NOT SUPPLIED.
10. ALL STRUCTURAL WELDS TO BE PER ACP 2-9 CLASS 3.
11. ALL PRESSURE PIPING WELDS TO BE PER APPLICABLE ITT A-C PUMP WELD PROCESS SPECIFICATIONS (WP'S) AS INDICATED ON DWG. 52-329-750.

ITT A-C Pump — A unit of ITT Corporation

THIS DOCUMENT IS THE PROPERTY OF ITT A-C PUMP, IT IS ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, OR COPIED, OR DISCLOSED IN WHOLE OR IN PART, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION.

UNLESS OTHERWISE SPECIFIED:
1-PLACE DEC ± — ANGULAR ±.5°
2-PLACE DEC ±
3-PLACE DEC ±
FOR TOLERANCES NO SPECIFIED SEE ACP-SERIES SHOP PRACTICE STANDARDS
MACHINED SURFACE TEXTURE √

NAME: FIRE PUMP PACKAGE 10X8X20F W/ DDFP-04AT 2000 GPM, 120 PSI 2100 RPM

THIRD ANGLE PROJECTION

ORDER NO. 95262-01

DR.	MG	4/14/94
CH.	MG	4/14/94
APP.	KRW	7/11/94

SIMILAR TO XX-XXX-XXX

SCALE .055 — SHEET 1 OF 1

PART NO. 52-461-362 CAD

PRODUCTION FILE 20
060155

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

September 11, 1995

Mr. Kamron Saremi
Sanitary Engineering Associate
California Regional Water Quality Control Board
Santa Ana Region
2010 Iowa Avenue, Suite 100
Riverside, CA 92507-2409

Dear Mr. Saremi:

SUBJECT: GAS PLANT ADJACENT TO BOLSA CHICA WETLANDS
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached our 2nd quarter 1995 Groundwater Monitoring and Project Status Report for the CalResources Gas Plant at Huntington Beach, CA. The groundwater plume remains under control and confined to the site.

Plant demolition is complete. Interim remediation activities consisting of biotreatment of surficial oil-impacted soils is proceeding.

Sincerely,

Sub Sen
Staff Environmental Engineer
HS&E - Environmental

SS:pj

Attachments

GM515301.WPD

bcc: (w/Attachments)
Mr. Richard Grunbaum
City of Huntington Beach
Fire Department
200 Main Street
Huntington Beach, CA 92648

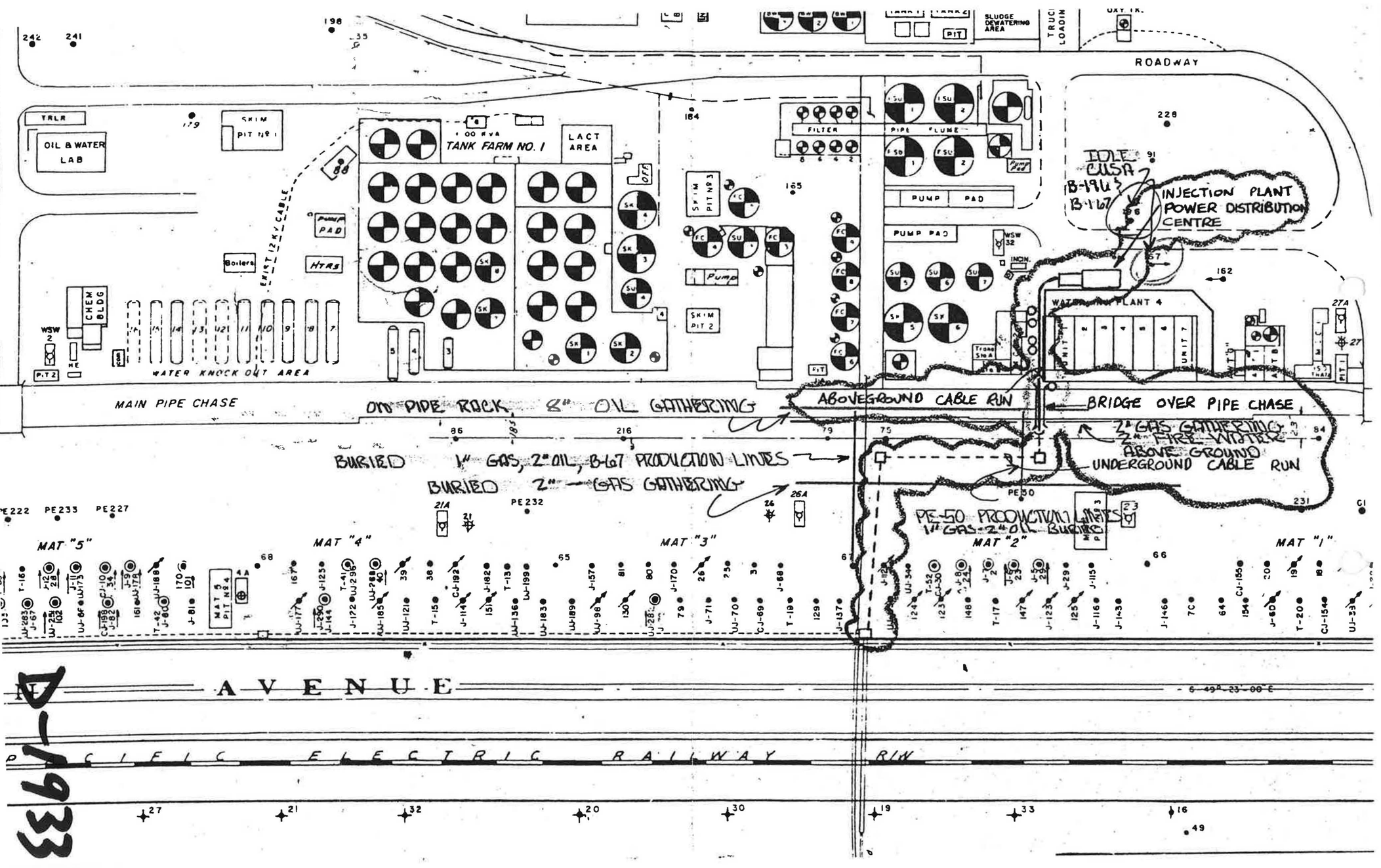
Mr. Luis Lodrigueza
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Mr. Duc Nguyen
Environmental Management Agency
Environmental Resources Division
P.O. Box 4048
Santa Ana, CA 92702-4048

Mr. A. S. Kennedy
Sr. Land Representative
Land Department
CalResources LLC
SPT 644

(w/out Attachments)
Mr. Bill Henry
Park Environmental Services
5100 E. Hunter Avenue
Anaheim, CA 92807

Mr. John R. Limousin
Field Superintendent
CalResources LLC
L. A. Basin - Beta Production Office


ROADWAY
TRLR
OIL & WATER LAB
SKIM PIT No 1
TANK FARM NO. 1
LACT AREA
FILTER
PIPE
FLUME
PUMP PAD
IDLE CUSA
B-194
B-167
INJECTION PLANT
POWER DISTRIBUTION CENTRE
Boilers
HTRS
CHEM BLDG
WATER KNOCK OUT AREA
EXIST 12 KV CABLE
SKIM PIT No 3
SKIM PIT 2
Pump
WSW 32
WATER PLANT 4
MAIN PIPE CHASE
OLD PIPE RACK 8" OIL GATHERING
ABOVEGROUND CABLE RUN
BRIDGE OVER PIPE CHASE
2" GAS GATHERING
2" FIRE WATER
ABOVE GROUND
UNDERGROUND CABLE RUN
BURIED 1" GAS, 2" OIL, B-67 PRODUCTION LINES
BURIED 2" GAS GATHERING
PE-50 PRODUCTION LINES
1" GAS-2" OIL BURIED
MAT "5"
MAT "4"
MAT "3"
MAT "2"
MAT "1"
MAT 5 PIT No 4
AVENUE
PACIFIC ELECTRIC RAILWAY

D-1933

OFFICE
Trlr.
96
AUTOMOTIVE REPAIR SHOP
MUD MIXING AREA
BLDG.
OIL & WATER LAB
188
74
CHEM BLDG
WSW 2
HE
PIT 2
WATER
A.W.T. "D"
T. STA. D
PIT 3
STEAM GENERATOR FAC AREA 1
5A
STEAM FAC
WSW 1A
WSW 33
WCC 3
A.W.T. "C"
MAIN PIPE
MARKED "S-34"
210
114
102
8-254
8-253
20
225
MAT 8 PIT Nº 7
MAT "8"
MAT "7"
MAT "6"
MAT "5"
15 KV UNDERGROUND DUCT BANK
11-A
MAT 6 PIT 5
CHEM PAD
MAT PIT
219
PE222
PE233
PE227
71
70
69
72
73
9
T-14
UJ-276 65
UJ-148
J-119
UJ-259 UJ-191
T-35 J-21
J-149
J-20
T-3
UJ-19
153
J-18
UJ-275 J-99
J-44
514
J-42
UJ-264 78
UJ-181
180
T-44 J-194
UJ-187 J-96
J-140
UJ-171
UJ-174
J-139
UJ-176
164
T-18
T-33 J-44
UJ-261 UJ-293
172 43
J-95
CJ-179
CJ-117 32
157
J-16 36
CJ-196 J-184
158 7
T-1
135
UJ-289 UJ-91
J-93
UJ-274 J-92
J-125
117
T-12
J-129
UJ-172 T-31
456
CJ-281 J-89
44
132
UJ-285 J-88
UJ-250
UJ-265 UJ-147
156
UJ-255 J-142
J-141
J-64
T-40 J-63
UJ-230 103
T-16
UJ-283 J-67
J-12 28
UJ-254 102
UJ-66
CJ-188 J-82
J-18
J-9
161
UJ-174
UJ-188
T-42 J-80
170 101
J-81
OCEAN
PACIFIC
47
24
46
23
31
26
48
22
27
SAM 69
C.L.A. 68
C.L.A. 67
C.L.A. 66
P.J.C. 65
P.J.C. 64
P.J.C. 63
C.L.A. 62
CLA 61
SM 60
CEM 59
CLA 58
CEM 57
CEM 56
CLA 55
CLA 54
BW 53
CLA 52
BW 51
BW 50
(VE)
S AND 36
27A
OLING FAC. AT T.F.1
ANS., 3" SURF. W., 3" DR. LINES
SOFTENER FACILITIES
NEW PIPING
APPROVED + EXISTING PIPING
BURIED
LEGEND:
= EXISTING FACILITIES
43
9 10
S. R. 11 W.
PACIFIC SELECT

CITY OF HUNTINGTON BEACH
COUNTY OF ORANGE

26 M.C.C.

EASEMENT LINE

TECH. BLDG

CAUSTIC FLOOD PILOT PLANT

WATER INJECTION PLANT 3

CONT BLDG

UNIT 1 2 3

MCC

425 MCC

T-4 T-8

CHEMICAL TREATING

CHEM. STOR PAD

CHEM ST

PIT 6

Area For Pipe Chase Expansion

B O L S A "B" L'S E

MAT B-15

MAT B-1

BOLSA 31

MAT B PIT 16

B-10 B-9 B-8 B-7 B-6 B-5 B-4 B-3 B-2 B-1

B-19 B-18 B-17 B-16 B-15 B-14 B-12 B-11 B-10 B-9 B-23 B-22 B-21 B-20

Prop A

Prop B

CH #8

PROP 25

MAT C-8 PIT NW 15

MAT. "C-8"

MAT 12 W PIT NO 14

60 107 104 16 24

105 106 107 108 C-2 C-3 C-4 C-1 109 110 111 C-5 C-6 C-7 554 565 128 127 128 549 539 529 519 518 99 171 98 581 562 510 520 587 536 530 540 503 504 551 555 556 1-49 564 563 506 584 560 559 558 508 J-166 569 557

M

O C E A N

90 45 100 50 100 50 66

P A C I F I C

EXISTING
NEW
--- ⇒ BURIED

P A C I F

N47° 04' 00" W

N48° 18' 20" W

100

H U N T I

HUNTINGTON BEACH EASEMENT LINE

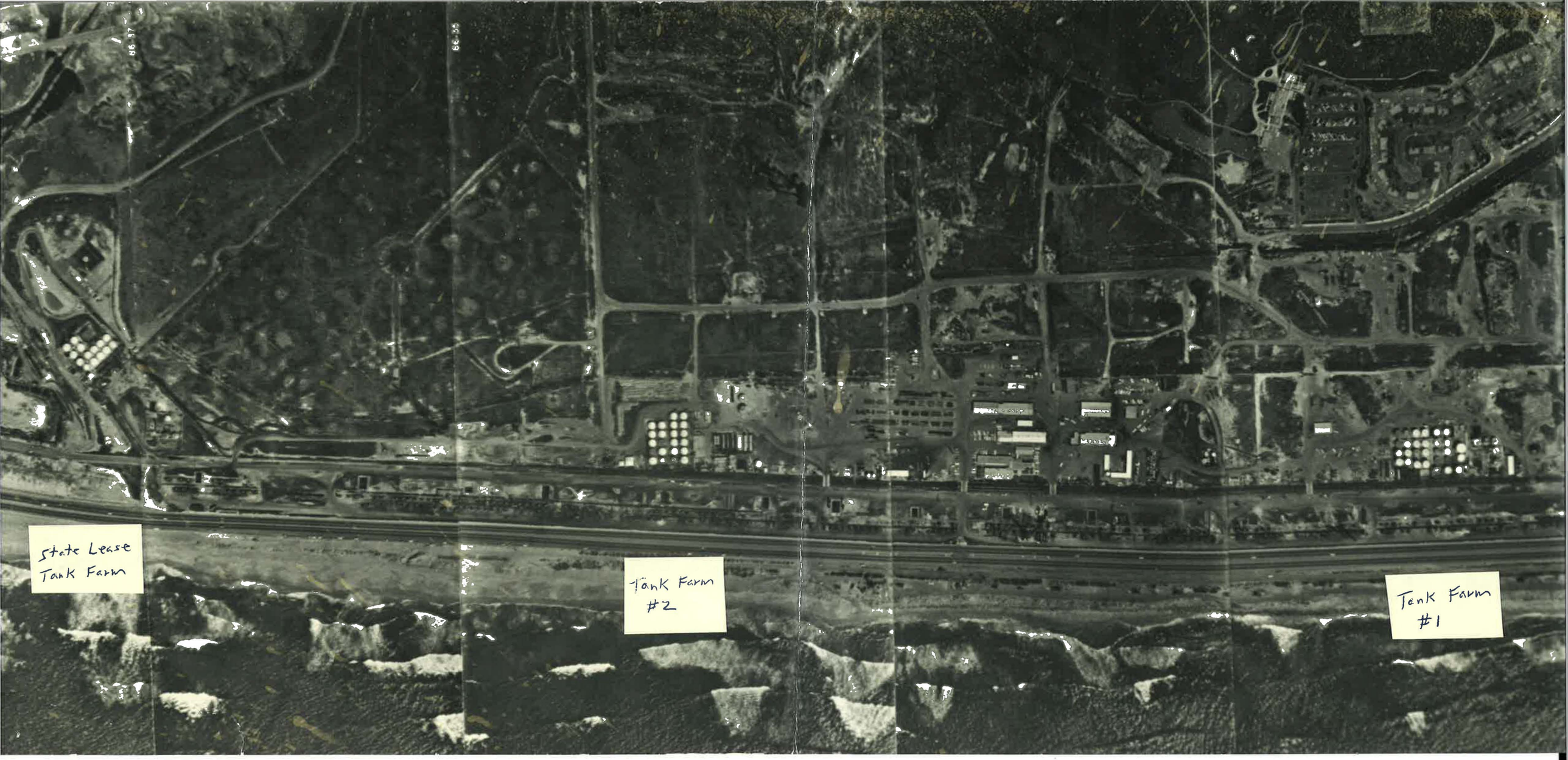
12" F.G. - M.W. LINE

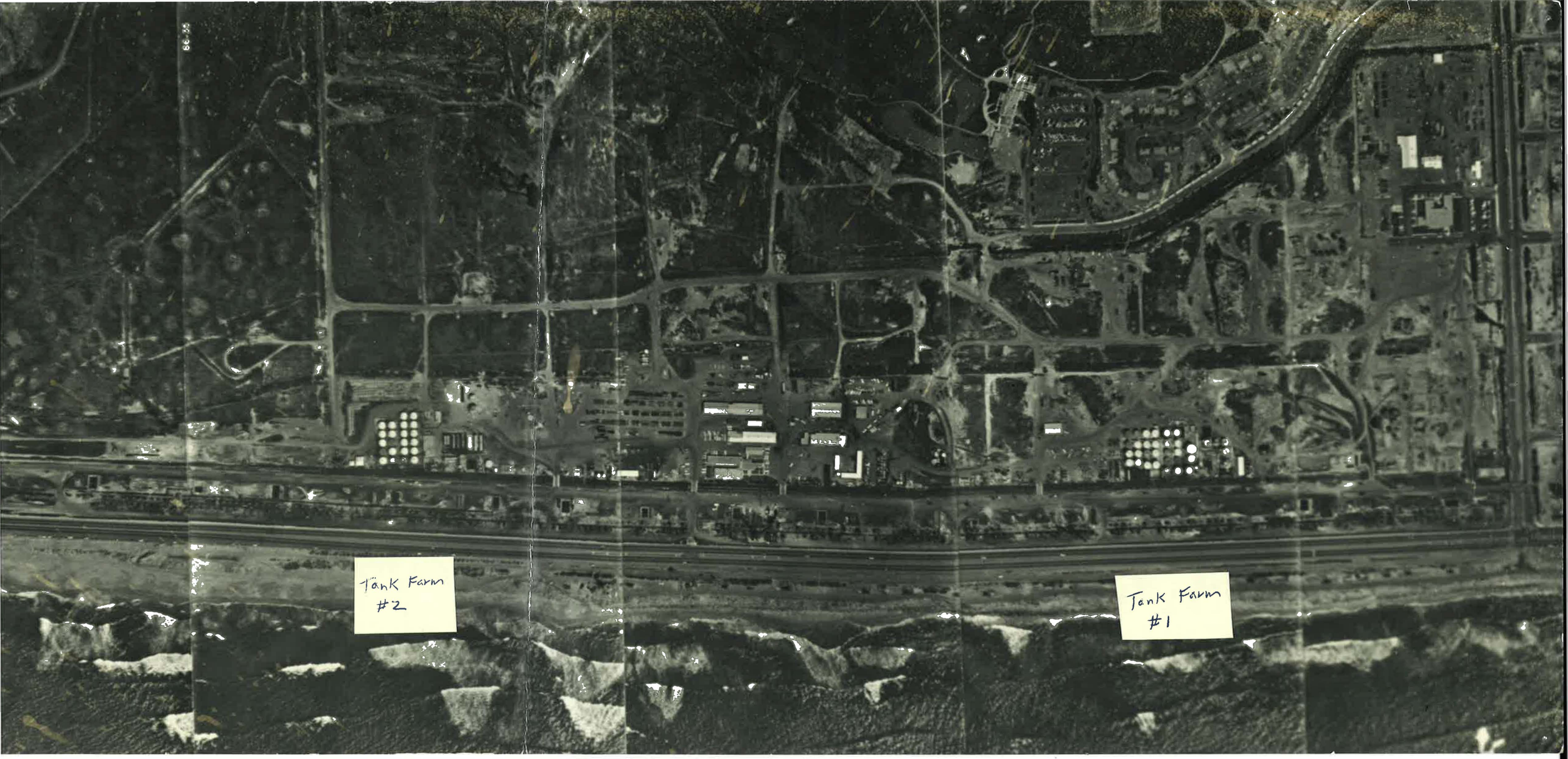
163

20° TRANSITE W.W. LINE

44 191 119

OAKITE


State Lease
Tank Farm
Tank Farm
#2
Tank Farm
#1


Tank Farm
#2
Tank Farm
#1

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

March 13, 1997

Sub Sen
Cal Resources
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164

Subject: **Remedial Action Completion Certification**

Re: Underground Storage Tank (UST) Case

Cal Resources
20101 Goldenwest Street
Huntington Beach, CA
O.C.H.C.A. Case #88UT110

Dear Mr. Sen:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary regarding the above-referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this Agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please telephone Peter Peuron at (714) 667-3719 if you have any questions regarding this matter.

Sincerely,

Karen L. Hodel

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Mitigation Section
Environmental Health Division

KLH:pp

Attachment

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Mike Harper, State Water Resources Control Board
Larry Honeybourne, Environmental Health Division
Dave Deaner, State Water Resources Control Board

Case Closure Summary
Leaking Underground Fuel Tank Program

I. Agency Information

Date: **January 3, 1997**

Agency Name: **Orange County Health Care Agency**	Address: **2009 East Edinger Avenue**
City/State/Zip: **Santa Ana, CA 92705**	Phone: **(714) 667-3700**
Responsible staff person: **Peter Peuron**	Title: **Hazardous Waste Specialist**

II. Case Information

Site Facility Name: **Cal Resources**			
Site Facility Address: **20101 Golden West Street, Huntington Beach, CA 92648**			
RB LUSTIS Case No.: **083000890T**	Local Case No.:	LOP Case No.: **88UT110**	
URF Filing Date: **August 7, 1989**	SWEEPS No.		
Responsible Party	Address		Phone Number
Sub Sen	**Cal Resources**		**(805) 326-5000**
	5060 California Avenue, P.O. Box 11164		
	Bakersfield, CA 93389-1164		

Tank No	Size in Gal.	Contents	Closed in-Place/Removed?	Date
1	**7,000**	**gasoline**	**removed**	**May 20, 1988**
2,3	**5,000 & 2,000**	**stoddard solvent**	**removed**	**May 20, 1988**
4	**10,000**	**gasoline**	**removed**	**April 4, 1889**
5	**10,000**	**stoddard solvent**	**removed**	**April 4, 1989**

III. Release and Site Characterization Information

Cause and type of release: **unknown**		
Site characterization complete? **yes**	Date approved by oversight agency: **April 9, 1991**	
Monitoring wells installed? **yes**	Number: **7**	Proper screened interval? **yes**
Highest GW depth BGS: **33.76 feet**	Lowest depth: **34.45 feet**	Flow direction: **west**
Most sensitive current use: **NA**		
Are drinking water wells affected? **no**	Aquifer name: **NA**	
Is surface water affected? **no**	Nearest/affected SW name: **NA**	
Off-site beneficial use impacts (addresses/locations): **none**		
Report(s) on file? **yes**	Where is report(s) filed? **Orange County Health Care Agency**	

Treatment and Disposal of Affected Material

Material	Amount (include Units)	Action (treatment or disposal/destination)	Date
Tank	**3**	**AMR, Ontario, California**	**May 20, 1988**
Tank	**2**	**AMR, Ontario, California**	**April 4, 1989**
Soil	**956 tons**	**disposal, Casmalia Landfill, CA**	**April 13, 1989**
Groundwater			
Barrels			

III. Release and Site Characterization Information (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (gas)	**20,700**	**3,700**	**53**	**0.180**	MTBE			**NA**	**ND**
Benzene	**22.5**	**11**	**3.8**	**ND**					
Toluene	**90.6**	**240**	**13**	**0.0022**					
Xylene	**399**	**970**	**29**	**0.0038**					
Ethylbenzene	**177**	**180**	**4.7**	**0.00094**					

Comments (Depth of Remediation, etc.): **Soon after tanks were removed, extensive excavation of soil was performed. Soil was removed to a depth of about 35 feet below ground surface, where groundwater was encountered. A total of 956 tons of contaminated soil was disposed at Casmalia Resources. The "after" soil contamination levels shown above are concentrations left in place after soil excavation was performed. Due to the proximity of contaminated soil to the water table, a groundwater investigation was required and wells were installed. Significant groundwater contamination levels were found. Remaining soil and groundwater contamination was addressed using vapor extraction. The vapor extraction system operated from May of 1993 to September of 1995. During this time about 22,300 pounds of Total Petroleum Hydrocarbons were removed. Post-remedial monitoring demonstrated a steady decline in groundwater contaminant concentrations. All groundwater contaminant concentrations are below the MCLs. Also, the site is located seaward of the Newport-Inglewood Fault Zone. Therefore (since the site has been adequately characterized and no free product is present) the site can be classified as "low risk". Remaining contamination at this site presents no threat to drinking water, human health or the environment.**

IV. Closure

Does completed corrective action protect *existing* beneficial uses per the Regional Board Basin Plan? **yes**		
Does completed corrective action protect *potential* beneficial uses per the Regional Board Basin Plan? **yes**		
Does corrective action protect public health for current land use? **yes**		
Site management requirements: **none**		
Should corrective action be reviewed if land use changes? **no**		
Monitoring wells decommissioned: **no**	Number decommissioned:	Number Retained: **7**
List enforcement actions taken: **none**		
List enforcement actions rescinded: **NA**		

V. Local Agency Representative Data

Name: **Peter Peuron**	Title: **Hazardous Waste Specialist**	
Signature: Peter Peuron for Kevin Graves 1-3-97 1/10/97 Kevin Y. Hodel		Date: 1-3-97

VI. RWQCB Notification

Date Submitted to RB: FEBRUARY 13, 1997	RB Response:	
RWQCB Staff Name: CARL BERNHARDT	Title: ASSOCIATE ENGINEERING GEOLOGIST	Date: 3-11-97

Shell Western E&P Inc.
An affiliate of Shell Oil Company

P.O. Box 11164
Bakersfield, CA 93389

April 5, 1991

FEDERAL EXPRESS

Mr. Peter Peuron
Hazardous Materials Management Section
Environmental Health Division
Health Care Agency
County of Orange
2009 East Edinger Avenue
Santa Ana, CA 92705

Dear Mr. Peuron:

SUBJECT: CHARACTERIZATION REPORT
OCHCA CASE #88UT110
UNDERGROUND STORAGE TANK SITE
SHELL WESTERN E&P INC.
20101 GOLDENWEST STREET
HUNTINGTON BEACH, ORANGE COUNTY

As explained in Shell Western E&P Inc.'s (SWEPI) March 4, 1991 Quarterly Report, characterization of the subject former underground tank site is complete. The original tank removal was performed in April 1989. A subsequent closure request dated August 7, 1989 with accompanying site characterization was denied by your letter of September 1, 1989 with a request for further characterization. We believe that the requested additional investigation is now complete.

Enclosed is a final characterization report in two volumes (Phase I & Phase II) prepared by Groundwater Technology (SWEPI consultant). The information contained in the report is in addition to that in the original August 1989 report prepared by Aman Environmental (former SWEPI consultant). In order to tie the two reports together, a brief summary of the information in the three volumes is also enclosed.

CBBY9109204 - 0001.0.0

We look forward to meeting with you to discuss the need for further action upon completion of your review of the enclosed reports. If you have any questions, please contact Sub Sen of our staff at (805) 326-5129.

Sincerely,

J. A. Ruhl
Manager Health, Safety & Environment
West Coast Production Division

SS:tls

Enclosure

cc: Bill Giralamo
Groundwater Technology Inc.
20000/200 Mariner Avenue
Torrance, CA 90503-1670

SUMMARY OF CHARACTERIZATION STUDIES
OCHCA CASE #88UT110
UNDERGROUND STORAGE TANK SITE
HUNTINGTON BEACH, ORANGE COUNTY

HISTORY

Two 10,000 gallon underground tanks were removed in April 1989. Their former locations are shown in Figure 1. Samples below each end of the gasoline tank and one end of the Stoddard solvent tank (GT-EX-1, GT-EX-2, ST-EX-2) at 12 feet below grade were clean. However, sample ST-EX-1 (12 feet below grade) below the eastern end of the Stoddard solvent tank found elevated levels of hydrocarbons; ST-EX-1A at 14 feet below grade also found hydrocarbons. The hydrocarbon-containing soil was excavated down to 35 feet as shown in Figures 1 & 2. Further samples ST-EX-3, 4, 7 & 8 were taken during the excavation. The stockpiled soils were sampled (SP-GS-1) and removed. Three subsurface borings (PB-1, PB-2 & PB-3: Figures 1 & 2) down to groundwater at 35 feet vertical below grade showed no significant contamination remaining. Table 1 shows the analytical results from Aman Environmental's investigation. However, a request for closure was denied, and further investigation required.

In November 1989, SWEPI retained Groundwater Technology Inc. to further characterize the site. Phase I of the investigation included drilling and sampling soil and groundwater from 5 groundwater monitoring wells (GTW1 through GTW5) and a vapor extraction test through a soil probe and well GTV2. A Phase I report was completed in June 1990. However, due to the level of groundwater hydrocarbons found in well GTW-5, a Phase II investigation was initiated to define the limits of elevated groundwater TPH. Wells GTW-6 (upgradient) and GTW-7 (downgradient) completed this investigation, along with a pump-test on well GTW-5. A Phase II report was completed in March 1991. Figures 3 (plan) and 4 (cross-section) show the locations of all the wells, hydrocarbons and the isoTPH contours. Tables 2 and 3 show soil analytical results from Phase I and II. Tables 4 & 5 show the groundwater analytical results from Phase I & II.

CONCLUSIONS

It is deduced from the data above that:

1) A hydrocarbon plume originally extended from one end of the Stoddard solvent tank down to groundwater around Well GTW-5 as shown in Figure 4.

2) Most of the source hydrocarbon-bearing soil has been excavated. The highest remaining TPH level of 3700 ppm was found at 31 feet in well GTV-1 with next highest at 140 ppm.

3) The groundwater in well GTW-5 had 53,000 - 80,000 ppb of TPH. The upgradient well GTW-6 had low TPH levels, and the downgradient GTW-7 had non-detectable levels. Well GTW-5 also had 2,000 - 3,800 ppb of benzene, but other wells had less than 3.5 ppb. The hydrocarbon plume is now well defined and concentrated around well GTW-5, as shown in Figure 3.

4) Groundwater in the vicinity is brackish (TDS 9,700 ppm) and not used for any purpose. The site is within 0.25 mile of the shoreline.

TABLE 1

Summary of Analytical Results
Shell Western Exploration and Production, Inc.
Huntington Beach Unit
Huntington Beach, California
(AEI Project Number 88-7030)

Sample I.D.		Depth (ft)	TPH (1) (mg/kg)	Benzene (2) (mg/kg)	Toluene (2) (mg//kg)	Ethylbenzene (2) (mg/kg)	Total Xylenes (2) (mg/kg)
GT-EX-1		12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
GT-EX-2		12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
ST-EX-1		12	3550	0.97	11.66	6.78	59.3
ST-EX-1A		14	20700	3.44	90.6	46.2	399
ST-EX-2		12	ND<1.0	ND<0.01	ND<0.01	ND<0.05	ND<0.05
SP-GS-1			4070	0.83	6.17	6.24	52.2
ST-EX-3		20	5210	ND<0.01	6.04	ND<0.05	41.0
ST-EX-4			295	ND<0.01	0.92	ND<0.05	0.25
ST-EX-7		26	5820	22.5	48.9	177	56.6
ST-EX-8		32	1090	0.518	4.06	3.83	29.5
PB1-5'			ND<10				
PB1-10'			ND<10				
PB1-15'			ND<10				
PB1-20'			ND<10				
PB1-25'			10	0.3	0.7	0.3	0.9
PB1-30'			ND<10				
PB1-35'			ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
PB2-10'			ND<10				
PB2-20'			ND<10				
PB2-30'			ND<10				
PB2-40'			ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1
GS2-22'	*		180	ND<0.1	0.2	ND<0.1	6.6
PB3-5'			ND<10				
PB3-10'			ND<10				
PB3-15'			ND<10				
PB3-20'			ND<10				
PB3-25'			ND<10				
PB3-30'			ND<10				
PB3-35'			ND<10	ND<0.1	ND<0.1	ND<0.1	ND<0.1

* Grab sample of soil cuttings from boring PB2 at approximately 22 feet.

(1) Total Petroleum Hydrocarbons, also known as total extractable petroleum hydrocarbons (TEPH); analyzed in accordance with modified EPA Method 8015.

(2) Analyzed in accordance with EPA Method 8020.

mg/kg Milligrams per kilogram; equivalent to parts per million (ppm).

ND Not detected at the stated detection limit.

TABLE 2

**Summary of Laboratory Analyses of
Undisturbed Soil Samples Obtained From
The Shell Production Unit, Tank Pit Area
Shell Western Exploration and Production, Inc.
Huntington Beach, California**

**Sampled November 10 Through December 14, 1989
and May 23, 1990**

Sample No.	TPH (Gasoline)	TPH (Stoddard Solvent)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW1-5	ND	ND	ND	ND	ND	ND
GTW1-10	ND	ND	ND	ND	ND	ND
GTW1-15	ND	ND	ND	ND	ND	ND
GTW1-20	ND	ND	ND	ND	ND	ND
GTW1-25	ND	ND	ND	ND	ND	ND
GTW1-30	ND	ND	ND	ND	ND	ND
GTW2-25	ND	ND	ND	ND	ND	ND
GTW3-25	140	ND	0.41	3.8	3.0	18
GTW4-31	ND	ND	ND	ND	ND	ND
GTW5-25	70		0.24	2.1	1.8	9.1
GTW5-30	ND		0.22	0.89	0.21	1.2
GTV1-31	3,700	ND	11	240	180	970
GTV2-31	5	ND	0.34	0.19	0.38	1.8

ND = Not detected
All values are in parts per million (ppm).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppm): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05.
Exception: GTW5 TPH (gasoline) = 10

TABLE 3

**Summary of EPA Methods 8015/8020 (TPH/BTEX) Analysis
Results on Soil Samples Collected from Borings
During Well Installation in the Shell Production Unit
Gas Pump Area**

Sampled December 17, and 18, 1990

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
GTW-6-15	12/18/90	ND	ND	ND	ND	ND
GTW-6-30	12/18/90	ND	ND	ND	ND	ND
GTW-7-15	12/17/90	ND	ND	ND	ND	ND
GTW-7-30	12/17/90	ND	ND	ND	ND	ND

- All concentrations measured in parts per million (ppm)
- ND = Levels below detection limits
- TPH = Total petroleum hydrocarbons (analyzed as gasoline)
- BTEX = benzene, toluene, ethylbenzene, and total xylenes
- Detection limits: TPH 10.0 ppm; benzene 0.05; toluene 0.05; ethylbenzene 0.05; xylenes 0.05 ppm

TABLE 4

Summary of 602/8015 (BTEX/TPH) Analyses
on Groundwater Samples Obtained During Well Development
in The Shell Production Unit, Tank Excavation
Shell Western Exploration and Production, Inc.
Huntington Beach, California

Sampled October 17, December 19, 1989
and June 5, 1990

Sample No.	TPH (Gasoline)	TPH (Stoddard)	Benzene	Toluene	Ethyl-Benzene	Xylenes
GTW-1 (11/17/89)	ND	ND	ND	ND	ND	ND
GTW-2 (11/17/89)	ND	8	5.0	ND	ND	ND
GTW-3 (11/17/89)	3,300	ND	110	330	290	1,100
GTW-4 (12/19/89)	21	--	ND	ND	ND	ND
GTW-5 (6/5/90)	80,000	--	3,800	13,000	4,700	29,000

ND = Not detected
All values are in parts per billion (ppb).
TPH = Total Petroleum Hydrocarbons.
Minimum Detection Limits (ppb): TPH (gasoline) 1.0; TPH (stoddard solvent) 1.0; benzene 0.5; toluene 0.5; ethylbenzene 0.5; xylenes 0.5.
Exception: GTW5 TPH (gasoline) = 100

TABLE 5

Summary of Analyses Results by EPA Methods 8015/8020 (TPH/BTEX), 7421 (Total Lead), and Total Dissolved Solids (TDS) on Groundwater Samples Collected from Wells in the Shell Production Unit, Gas Pump Area

Sampled December 21, 1990, and January 9, 1991

SAMPLE #	DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TOTAL LEAD*	TDS*
Trip Blank	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-1	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-2	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-3	12/21/90	110	3.5	7.8	1.0	6.9	-	-
GTW-4	12/21/90	ND	ND	ND	ND	ND	-	-
GTW-5	12/21/90	53,000	2,000	5,500	3,300	13,000	77	9,700
GTW-6	12/21/90	300	ND	4.8	6.4	31	-	-
GTW-7	12/21/90	ND	0.5	ND	1.4	6.7	-	-

* Total lead and TDS samples collected on January 9, 1991
- Not sampled
TPH, BTEX, and total lead concentrations reported as parts per billion (ppb). TDS concentration reported as parts per million ppm.
Detection limits

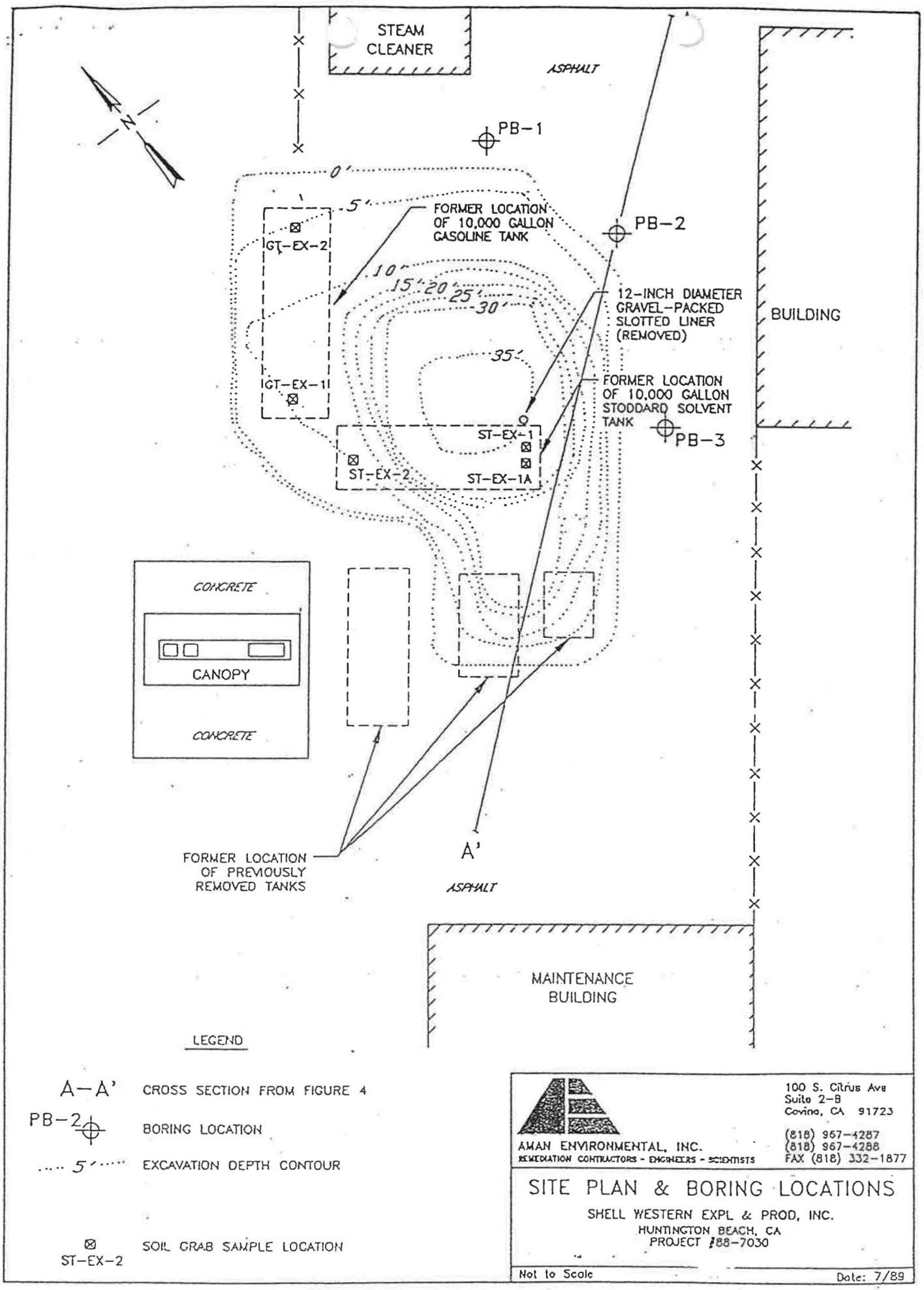
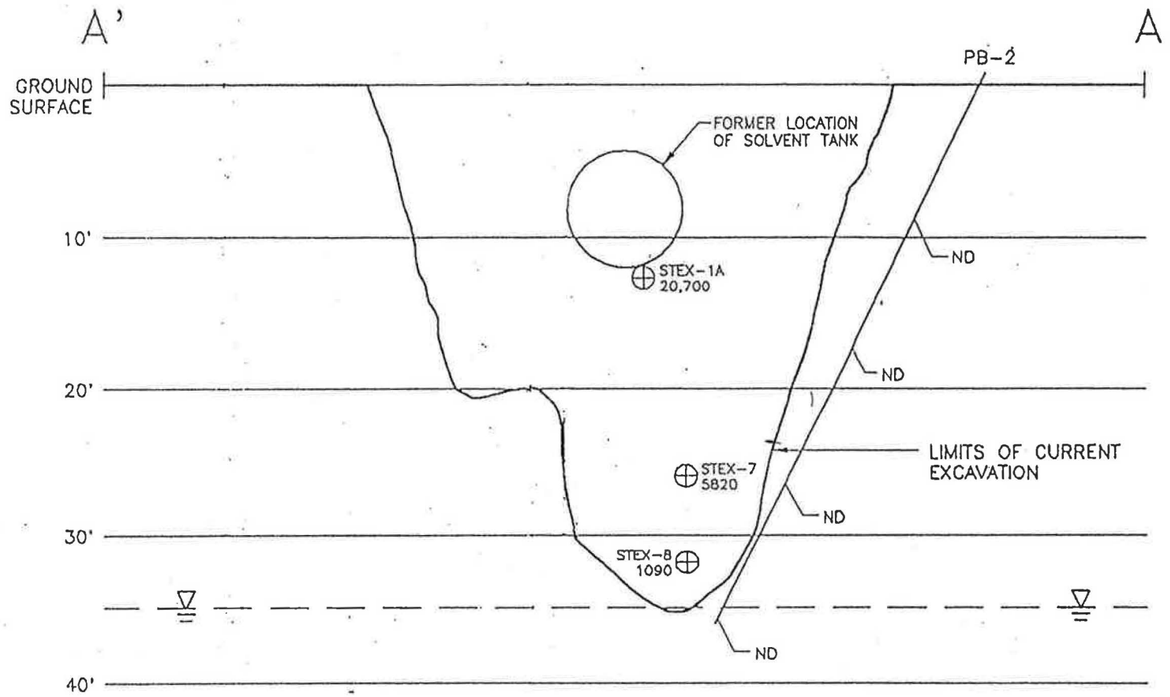

STEAM CLEANER
ASPHALT
N
PB-1
0'
5'
10'
15'
20'
25'
30'
35'
FORMER LOCATION OF 10,000 GALLON GASOLINE TANK
PB-2
12-INCH DIAMETER GRAVEL-PACKED SLOTTED LINER (REMOVED)
BUILDING
GT-EX-2
GT-EX-1
FORMER LOCATION OF 10,000 GALLON STODDARD SOLVENT TANK
PB-3
ST-EX-1
ST-EX-2
ST-EX-1A
CONCRETE
CANOPY
CONCRETE
FORMER LOCATION OF PREVIOUSLY REMOVED TANKS
A'
ASPHALT
MAINTENANCE BUILDING
LEGEND
A-A' CROSS SECTION FROM FIGURE 4
PB-2 BORING LOCATION
5' EXCAVATION DEPTH CONTOUR
ST-EX-2 SOIL GRAB SAMPLE LOCATION
AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS
100 S. Citrus Ave
Suite 2-B
Covina, CA 91723
(818) 967-4287
(818) 967-4288
FAX (818) 332-1877
SITE PLAN & BORING LOCATIONS
SHELL WESTERN EXPL & PROD, INC.
HUNTINGTON BEACH, CA
PROJECT 188-7030
Not to Scale
Date: 7/89

FIGURE 1



NOTE:

PB-2 IS ANGLED BORING

⊕ = EXCAVATION GRAB SAMPLE

ND = NOT DETECTABLE

OTHER NUMBERS REPRESENT TOTAL PETROLEUM HYDROCARONS (mg/kg)

HORIZONTAL DIMENSIONS NOT TO SCALE

LOCATION OF CROSS SECTION SHOWN ON FIGURE 3

AMAN ENVIRONMENTAL, INC.
REMEDIATION CONTRACTORS - ENGINEERS - SCIENTISTS

100 S. Citrus Ave
Suite 2-B
Covina, CA 91723

(818) 967-4287
(818) 967-4288
FAX (818) 332-1877

CROSS SECTION A-A'
BORING AND SAMPLE LOCATIONS

SHELL WESTERN EXPL. & PROD., INC.
HUNTINGTON BEACH, CA
PROJECT #88-7030

FIGURE 2

Date: 4/19/89

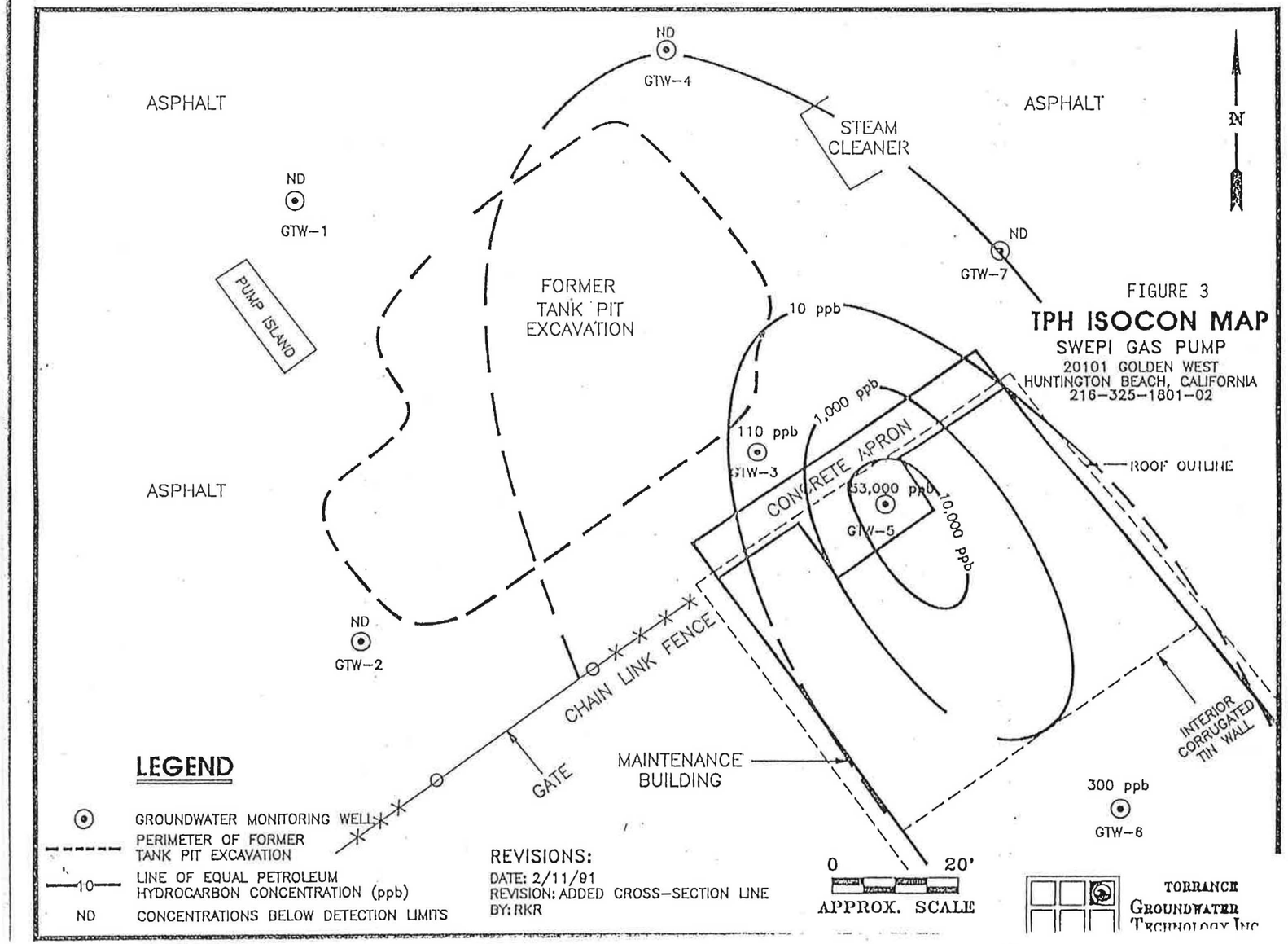


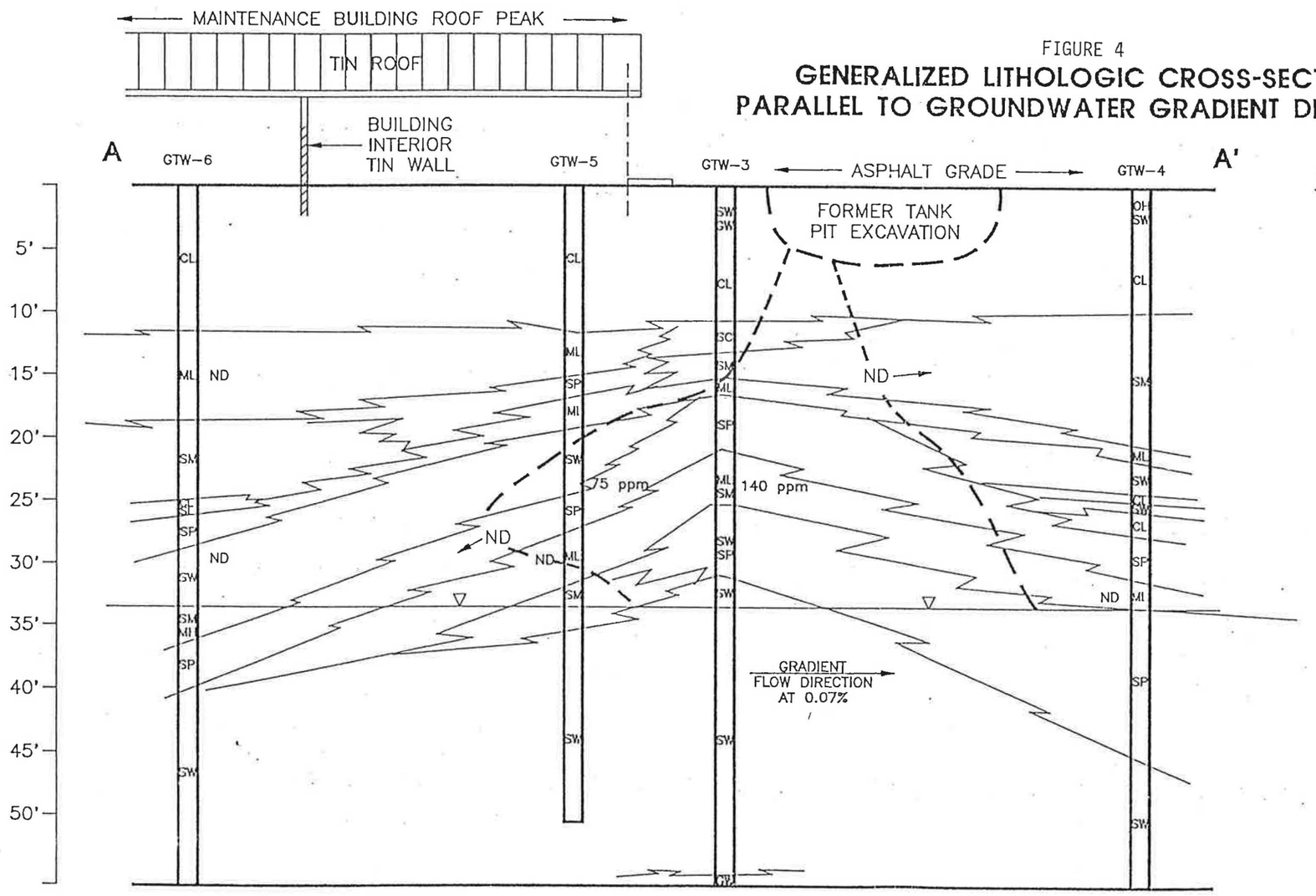
FIGURE 3

TPH ISOCON MAP

SWEPI GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

FIGURE 4

GENERALIZED LITHOLOGIC CROSS-SECTION PARALLEL TO GROUNDWATER GRADIENT DIRECTION





GENERALIZED LITHOLOGIC SUMMARY

ORGANIC TO SILTY CLAY FROM 3 FEET TO 10 FEET BELOW GRADE.

ALTERNATING THIN TO MEDIUM BEDS OF SILTY SANDS/SANDY SILT, WELL GRADED TO MODERATELY WELL GRADED SANDS FROM 10 FEET TO OVER 30 FEET BELOW GRADE.

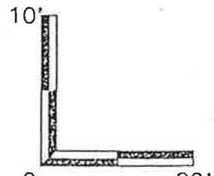
WELL TO POORLY GRADED MEDIUM TO COARSE GRAINED SANDS FROM APPROXIMATELY 32 FEET TO 55 FEET.

LEGEND

GW: SAND/GRAVEL MIXTURE
SP: POORLY GRADED SAND
SW: WELL GRADED SAND
SM: SILTY SAND
SC: CLAYEY SAND
ML: CLAYEY/SANDY SILT
CL: SILTY CLAY

CH: VERY PLASTIC CLAY
OH: ORGANIC CLAY
* NOTE: WELL DIAMETERS EXAGGERATED
140 ppm TPH CONCENTRATIONS MEASURED IN PARTS PER MILLION (ppm)
– – – – TPH CONCENTRATIONS BELOW DETECTION LIMITS

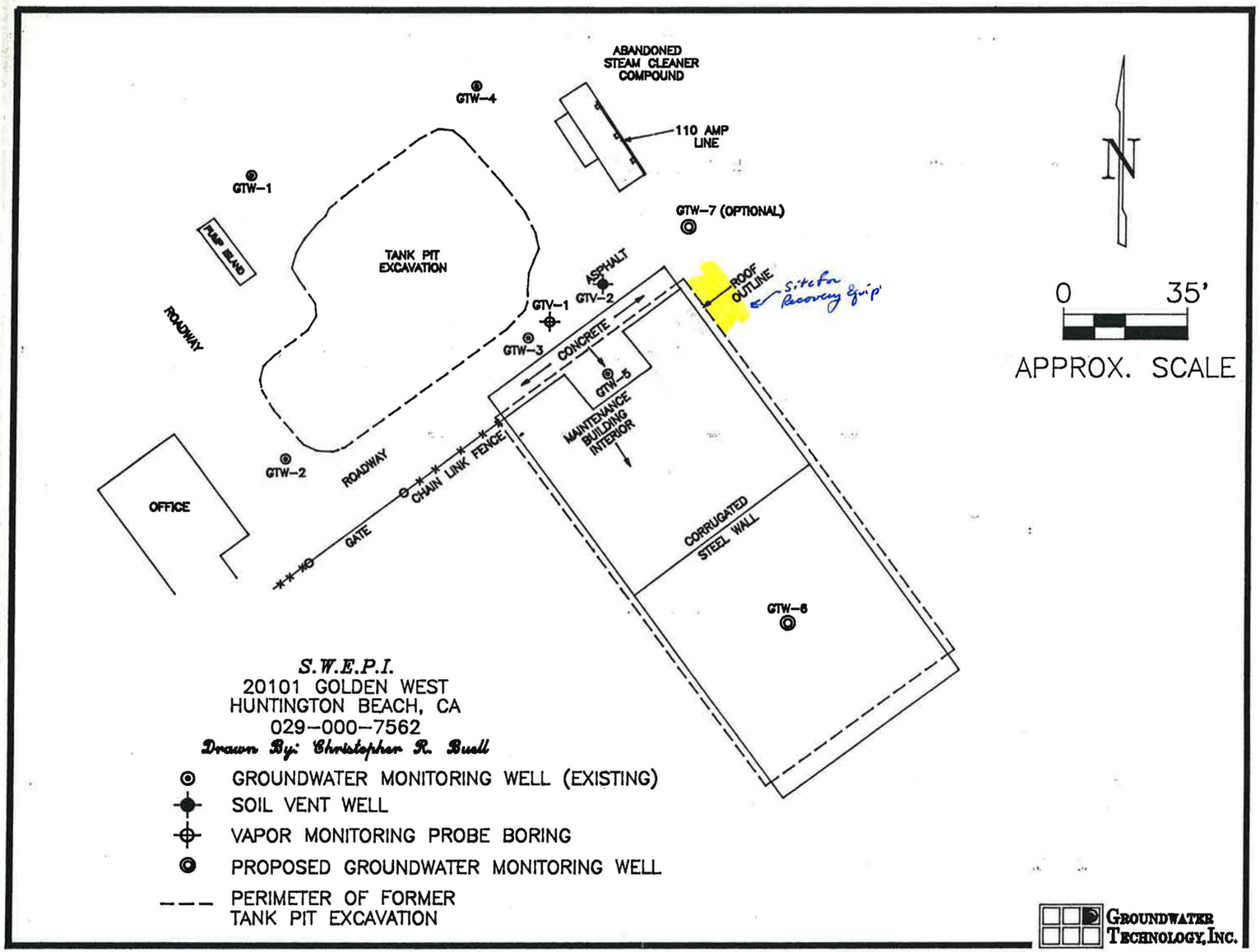
REVISIONS:
DATE: 2/15/91
REVISION: CROSS-SECTION, FIRST DRAFT
BY: RKR



APPROX. SCALE

SWEPI-GAS PUMP
20101 GOLDEN WEST
HUNTINGTON BEACH, CALIFORNIA
216-325-1801-02

TORRANCE GROUNDWATER TECHNOLOGY, INC.



S.W.E.P.I.
20101 GOLDEN WEST
HUNTINGTON BEACH, CA
029-000-7562

Drawn By: Christopher R. Buell

- GROUNDWATER MONITORING WELL (EXISTING)
- SOIL VENT WELL
- VAPOR MONITORING PROBE BORING
- PROPOSED GROUNDWATER MONITORING WELL
- PERIMETER OF FORMER TANK PIT EXCAVATION

GROUNDWATER TECHNOLOGY, INC.

WCPD HS&E - SUBSURFACE & WASTE MGMT
QUARTERLY PROJECT STATUS SUMMARY

UNIT: HUNTINGTON BEACH DATE:10/11/91

PROJECT: UST SITE CONDENSATE REMEDIATION RESP: SS

DESCRIPTION: Two 10M gallon UST's (gasoline & solvent) were removed in 4/89 from the HB Strip Facility area. Contaminanted soils were excavated; however, further assessment showed a plume of gasoline leading under a building down to groundwater. TPH values as high as 80,000ppb and benzene up to 3800ppb were found in the groundwater at one well. Characterization is complete.

STRATEGY: Close the gasoline contamination site at lowest cost by soil vapor extraction to remove the source of the groundwater problem, followed by purging of the contaminated groundwater for a couple of months. The key to cost minimization is to have DOG allow reinjection of the contaminated water into waterfloods; otherwise water treatment would increase costs.

TIMING/DEADLINES: The County is impatient with the two years that have passed with no remedial activities for the plume. Continue operations with due diligence till closure.

COSTS (M$):

TOTAL		EXPECTED SCHEDULE OF EXP	
AFE'D	: 335	PRE 1991	: 256
COSTS TO DATE	: 310	1991	: 104
EXPECTED ULTIMATE	: 450	1992	: 90
		1993 +	:

CURRENT STATUS: RAP report routing to County. County has informally approved plan. An AFE supplement to perform remediation is routing.

COMPLETED THIS QUARTER: RAP prepared and reviewed with County involves soil vapor extraction through 3 wells and only monthly purging and quarterly monitoring of groundwater. County approved concept, and no groundwater remediation will be required if natural processes and monthly purging brings water benzene levels down. Since this is governed by LUFT standards, soil TPH will need to be around 100ppm and benzene around 1ppb in the water before final closure.

NEXT QUARTER PLANNED: Obtain formal approval for RAP. Continue monthly purging and quarterly groundwater monitoring. Supplement AFE for remedial action. Begin remediation by using permitted portable IC engine while carbon adsorption VE system is being permitted.



Tank Farm 1

Huntington Beach

October 20, 1993



Tank Farm 2

Huntington Beach

October 20, 1993



State Lease Tank Farm
Huntington Beach

October 20, 1993



Tank Farm 2

Huntington Beach

October 20, 1993



Tank Farm 1

Huntington Beach

October 20, 1993



Tank Farm 1

Huntington Beach

October 20, 1993

HUNTINGTON BEACH

BOLSA "B" LSE

078-89-009AA	078-89-009Z	078-89-009Y	078-89-009X	078-89-009W	078-89-009V	078-89-009U	078-89-009T PIPE	BASE 078-89-009S	078-89-009F	078-89-009Q	078-89-009P	078-89-009N
AREA "AA"	AREA "Z"	AREA "Y"	AREA "X"	AREA "W"	AREA "V"	AREA "U"	AREA "T"	AREA "S"	AREA "F"	AREA "Q"	AREA "P"	AREA "N"

Area for Pipe Chase Expansion

MAT B1S MAT A1

MAT "C-8" MAT "12" MAT "11" MAT "10"

OCEAN AVENUE

PACIFIC ELECTRIC RAILWAY R/W

PACIFIC ELECTRIC LSE

Main Line - See Above

TA 1DW

HUNTINGTON BEACH EASEMENT LINE

HUNTINGTON BEACH LSE

SLIDING GATES

W.W. FILTRATION PLANT

ROADWAY

23RD ST

078-89-009M	078-89-009L	078-89-009K	078-89-009J	078-89-009H	078-89-009G	078-89-009E	078-89-009D	078-89-009C	078-89-009B	078-89-009A
AREA "M"	AREA "L"	AREA "K"	AREA "J"	AREA "H"	AREA "G"	AREA "E"	AREA "D"	AREA "C"	AREA "B"	AREA "A"

MAT "9" MAT "8" MAT "7" MAT "6" MAT "5" MAT "4" MAT "3" MAT "2" MAT "1" MAT "22" MAT "22-A"

OCEAN AVENUE

PACIFIC ELECTRIC RAILWAY R/W

NOTE:
FOR PIPING & FACILITIES DRAWINGS OUTSIDE OF THE MAIN PIPE CHASE REFER TO INDEX MAP DWG. No. 087-86-0248J

T. 6 S. R. 11 W.

PACIFIC ELECTRIC LSE

PACIFIC OCEAN

LEGEND
- OIL WELL
- DUAL WELL CELLAR
- WATER INJECTION WELL
- SALT WATER DISPOSAL WELL
- SOURCE WATER WELL
- WATER DESTRUCTION WELL
- ABANDONED OIL WELL
- ABANDONED SOURCE WATER WELL

	DATE	REV.	DESCRIPTION	BY	APP'D
FAC. PROJ. ENGR.					
DIV. FAC. ENGR.					
PROD./PLANT OPER.					
SAFETY ENGR.	6-89	2	UPDATE-BY FIELD	JRJ	
CONSTRUCTION	4/89	1	AS BUILT	SRS	

RELEASED ONLY FOR:

	FAC. PROJ. ENGR.	DIV. FAC. ENGR.	DATE
APPR.			
BID			
CONST.			

SHELL WESTERN E&P INC.

PIPING AREA INDEX
MAIN PIPE CHASE

HUNTINGTON BEACH FIELD, ORANGE CO., CA

DSN. MC | DATE: 4-11-89 | DIV. HCPD

DRN. J. LEAL | SCALE: 1"=100'-0" | No. 078-89-009 /2

AMINOIL USA

Emmy Power Cable Onshore Underground Duct Bank

Location Plan

dr. B. Olive | DEPT. | SCALE 1" = 40'-0" | DATE 4-19-84 | DRG. NO. D-2422 | SHEETS - SHEET -

EDISON 66-12 KV SUBSTATION

12 KV SWGR

12 KV SWITCHGEAR BUILDING

4"C-3 #/0 12KV

20" TRANSITE W.W.

OIL & WATER LAB.

CHEM. INJ. PLT. AREA

Cl_2 Bldg

BACK WASH TK. 3

BACK WASH TK. 2

BACK WASH TK. 1

Tank 1

Tank 2

C.F.I. CR.1

Pit

FILTERS

Inj. Surge Th. #1

Inj. Surge Th. #2

Filter Surge Th. #1

Filter Surge Th. #2

Filter Charge Pumps

Inj. Plant Charge Pumps

Flotation Cell Charge Pumps

Surge Th. #5

Surge Th. #6

Surge Th. #7

Skim Tk. #5

Skim Tk. #6

Trans. Sta. "A"

Trans. Sta. "B"

LAB OFFICE

SUMP

FC. 5

FC. 4

SURGE 3

FC. 3

FC. 2

FC. 1

FC. #8

FC. #7

FC. #6

PUMPS

BOILERS

PUMP PAD

SCHE HEATERS

SO_2 STORAGE FACILITY

STEAM FAC.

COMP.

TRANS. STA. "C"

ART. "C" MATS D.B.S.

MAT 6

6'-0" Cover

MAT 5

Manhole #3

MAT 4

6'-0" Cover

MAT 3

Manhole #4

PACIFIC COAST HIGHWAY

HUNTINGTON BEACH
EMMY
670-86-8040
D-2422

CSLS0002IC

CHLOR. BLDG.
INSTRU. BLDG.
BACKWASH 3
BACKWASH 2
BACKWASH 1
SLUDGE TANK
SLUDGE TANK
SLUDGE PIT
SLUDGE DEWATERING AREA
ANODE #4
VALVE BOX
F.H.
WELL 184
TRANS.
M.C.C.
LACT 7
LACT. 8 SHIPPING AREA
ANODE #6
SURGE 1 STOCK
STOCK
WASH 4A
SKIM OIL 3A
SURGE 1
SURGE 2
OFFICE
SKIM 4
STOCK
WASH 6A
SKIM OIL 5A
STOCK & REJECT
LACT REJECT SURGE & PROVING
SKIM 3
WASH 8A
WASH 4
SKIM 8
STOCK & REJECT
STOCK & REJECT
FC SURGE 4
WASH 7A
WASH 6
SKIM 7
STOCK & REJECT
STOCK & REJECT
B.S. & W WASH
SKIM 1
SKIM 2
SKIM OIL
SKIM OIL
W.K.O. 3
F-7
F-5
F-3
F-1
F-8
F-6
F-4
F-2
ELEC. CONTROL BLDG.
ANODE #2
INJ. SURGE 1
INJ. SURGE 2
SLUDGE TK.
DEGRAVEL TK.
FLOT CELL
FILTER SURGE 1
FILTER SURGE 2
INJ. 6
PUMPS 7
B.M. EL. 37.94' (TOC)
SKIM PIT 3
RET
FLOT CELL 5
WELL 165
FLOT CELL 4
SURGE 3
FLOT CELL 3
FLOT CELL PUMPS
FLOT. CELL SKIM PIT 2
ENGINE PAD
ANODE #3
PAD
RECTIFIERS LOCATION
COMPRESSOR
FLOT CELL 1
CHEMICAL
ANODE
ANODE #1
FLOT CELL 9
FLOT CELL 8
FLOT CELL 7
FLOT CELL 6
COMP
COMP
FILTER PUMPS
INJ. PUMPS 1 2 3 4 5
CHARGE PUMPS
W.S.W. 32
FUME DISPOSAL UNIT
SURGE 5
SURGE 6
SURGE 7
SKIM 5
SKIM 6
SKIM OIL
TRANS. STA. "A"
TRANSFORMER STA. "B"
INJECTION PLANT 4 AREA
45°
4"
3"
2"
6"
INVERT EL. 34.00
TOP OF PIPE EL. 37.79
INVERT EL. 34.00
TOP OF PIPE EL. 37.79
+34.40'
+34.25'
+35.10'
+35.00'
+34.25'
TOP OF BANK 39.79
+34.70'
+34.55'
TOP OF BANK 39.79
+34.60'
+34.35'
+34.10'
B.M. TOC-01 39.30
INVERT EL. 34.06
078-86-010FD
D-2108-30
CI2000650I
HUNTINGTON BEACH
078-86-010FD
D-2108-30
CI2000650I

DATE	DESCRIPTION	BY	APPR.	REV
12-3-84	ISSUED FOR CONST. & DRAIN & DISCHRT	SM		2
11-1-84	ISSUED FOR CONST. CONC. TRENCH CHRT	SM		1
9-29-80	UP DATE FACILITIES	EEW		
8-17-76	UP DATE FACILITIES	EEE		

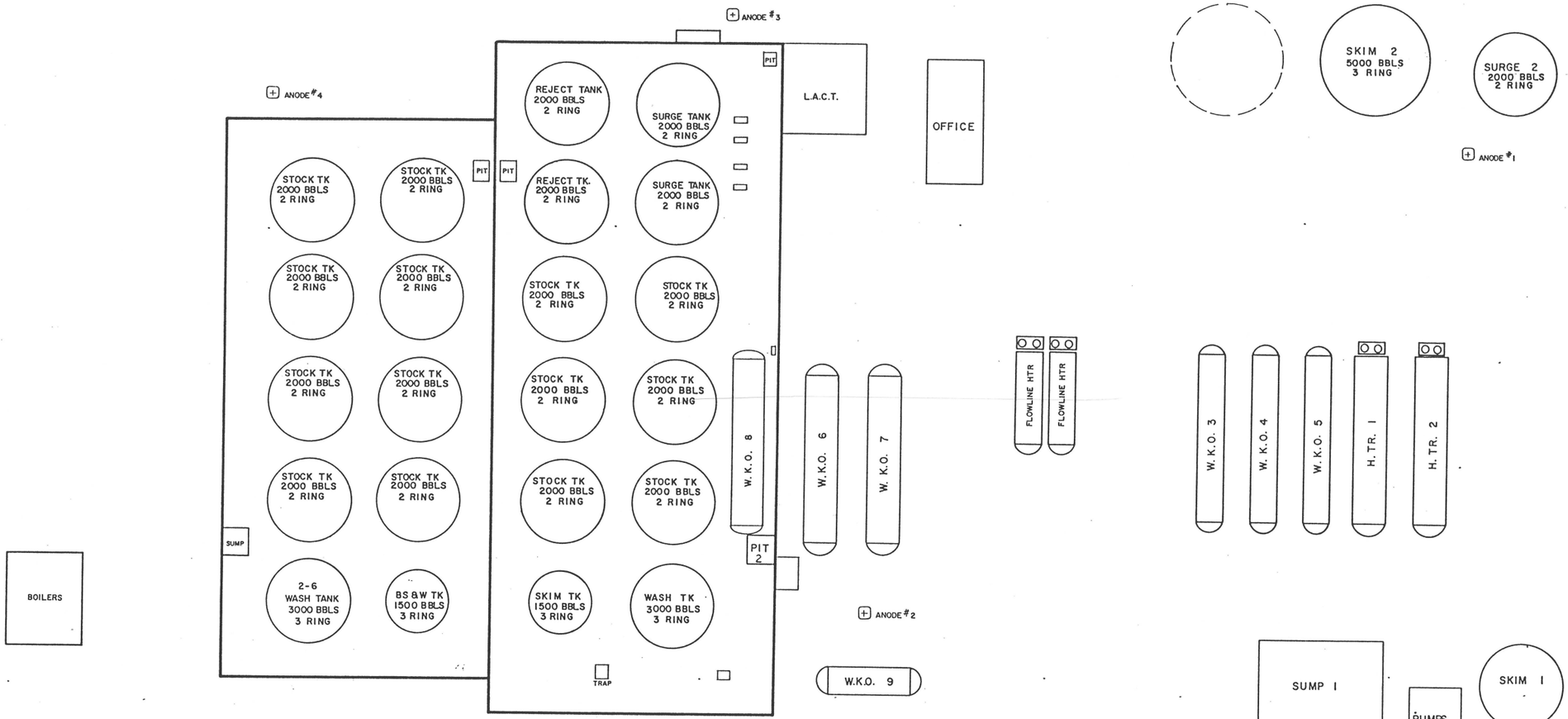
REVISIONS

PHILLIPS PETROLEUM COMPANY

TANK FARM #1
MASTER PLAN
PROPOSED SURFACE DRAINAGE

DR J. BOYD
TR
CH.
APPR
DISTRICT WESTERN
DEPT. D.E.
SCALE 1" = 20'
DATE
DWG. NO. D-2108
SHEET 9 SHEET 60

078-86-010FD



SCPI Dwg No. 078-86-011CF

REVISION DATE	DR.
8-27-76	T.C.

PHILLIPS PETROLEUM COMPANY

TANK FARM #2
MASTER PLAN

DR. BOYD	DEPT. D.E.	DWG. NO. D-2198
TR	SCALE 1" = 20'	SHEETS-SHEET 1
APPR.	DATE	

078-86-011CF
Dwg. No.

DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-86-011CF
D-2198-1

3120086686

3120086686

DRAWING NUMBER

DRAWING NUMBER

STORAGE | FOREMANS | RECEIVING | WAREHOUSE | WELD SHOP

CONSTRUCTION ENGINEERING | DRAFTING

ENGINE REPAIR

OFFICES

MAIN OFFICE

DOCK

MAINTENANCE AREA

PRODUCTION WAREHOUSE

TRANS. STA. "E" 750 KVA

TRANS. STA. "F" 1500 KVA

WASH RACK

STEAM CLEAN & OILITE PIT

GAS PUMP

CAR WASH

STORAGE GARAGE

CHANGE HOUSE

MAINTENANCE OFFICE

MAINTENANCE GARAGE

SCRUBBER

STEAMER

MUD TANK

TRANS. STA.

15'4"x15' SAND TRAP STRAIN

2x5 TRANS PAD w/ 5' CLEAR.

6'x 10' SUMP AREA

10' PAD AREA

12' EXCAVATION AREA

6' GAS SEPARATOR AREA

SLOPE TO TOP OF RETAINING WALL

SUMP

MAT 10

MAT 9

MAT 8

MAT 7

PACIFIC COAST HIGHWAY

SCPI Dwg. No. 078-86-014CG

REVISION DATE	BR.
10/24/81	CHK

AMINOIL USA

LEASES 392 & 425

SURFACE FACILITIES

AREA I

HUNTINGTON BEACH, CALIF.

DR. D.D.A.	DEPT. DESIGN ENGR.	DWG. NO.
TR.	SCALE 1" = 40'	D-2222
APPR.	DATE 5-24-71	SHEET 1 OF 1A

Dwg. No. 078-86-014CG

HUNTINGTON BEACH
078-86-014CG
D-2222-1A
3120080526

3120080526

PLAN VIEW 'A'
RAISED ISLAND & GUARD SHACK
SCALE: 3/8"=1'-0"

SCPI Dwg. No. 078-86-014J

REVISION DATE	DR.
7-2-81	CA
10-22-81	C.E.M.
4-7-82	C.L.A.
4-6-83	JC
3-27-84	JC

AMINOIL USA

LEASES 392 & 425
AREA II
50 MM BTU STEAMER FAC.
LOCATION
PROPOSED NEW ENTRANCE / EXIT GATE
HUNTINGTON BEACH, CALIF.

DR. D.D.A.	DEPT. DESIGN ENGR.	DWG. NO.
TR.	SCALE 1"= 40'	D-2234
APPR.	DATE 5-24-71	SHEETS-SHEET 1 of 2

Shell Calif. Prod. Inc. Dwg. No. 078-86-014J

Conflict Sequence
Left's talk

DRAWING NUMBER 312000847S

MANHOLE #3 FOR STANDARDS OUTFALL

150'

21'

7.5'

W.S.W. #9 (STANDARD OIL)

6" TYP.

℄ P.1 RELOCATED

℄ P.2 RELOCATED

℄ P.3 NEW

℄ P.6 FUTURE

℄ P.5

P2

P1

CONTACTOR #1

STORAGE AREA

OXIDIZER TANK

PUMPS

SULFUR TANK

GRAVEL RING

MIXING TANK (40M)

PUMP

FLOTATION CELL

℄ BOILER

℄ BOILER

℄ RELOCATED 25HP COMPRESSOR

℄ NEW 25 HP COMPRESSOR

3'-0" TYP.

EXISTING CONCRETE PAD

NEW STAND-BY UNIT

LIQUID SCRUBBER

WET GAS SCRUBBER

2000 Gal. Caustic Stor.

12" GATE

12" BALL VALVE

16" Wet Gas

To Plant II

8"

8"

4" Drain To Road Oil Pit

LEGEND

○ HIGH LEVEL
◇ LOW LEVEL
M FLOW SWITCH

VOID

SCPI Dwg. No. 078-86-021B

REVISION DATE	DR.
1-16-76	TC
2-9-79	CA
3-1-80	BY

AMINOIL USA

LEASE 392 / 429

GAS CONTACT TOWERS AND FACILITIES

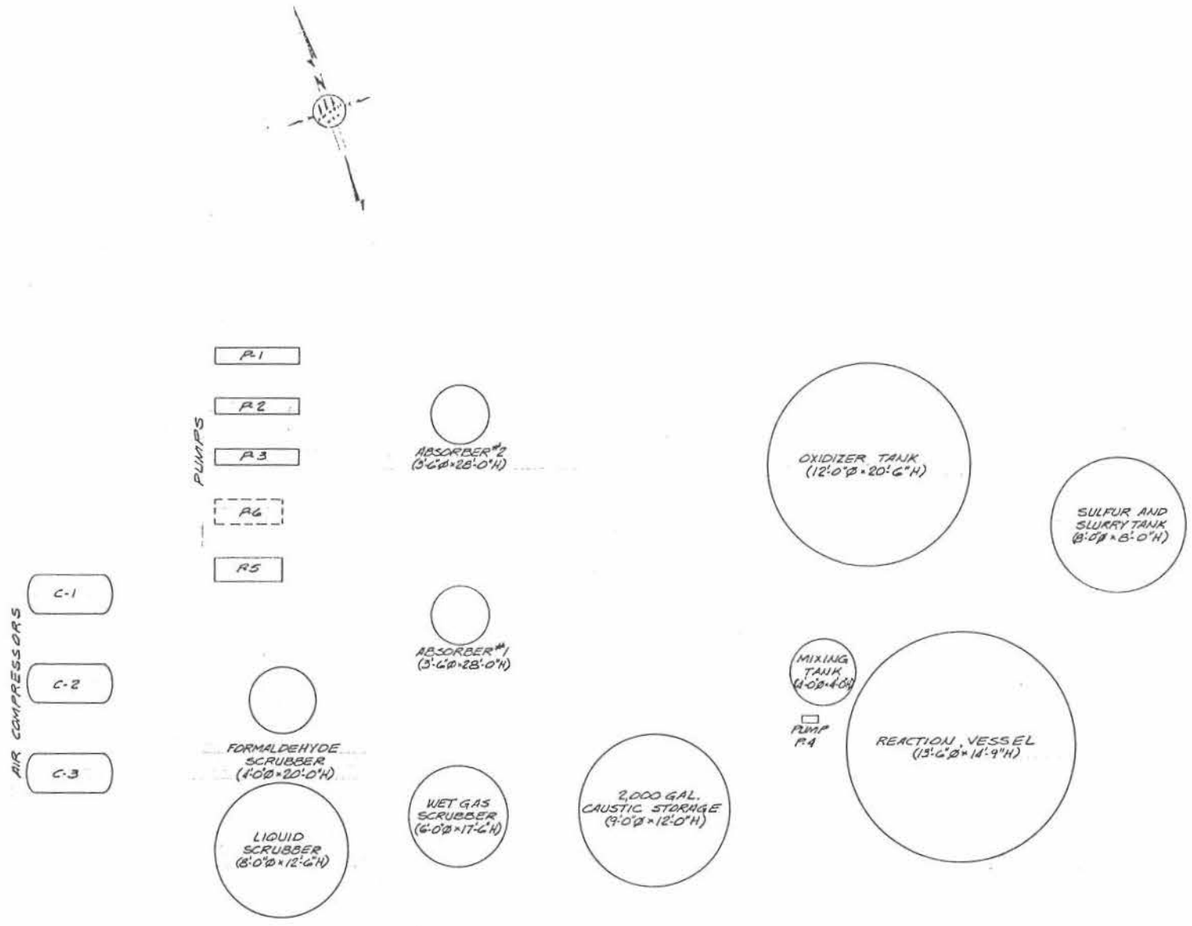
HUNTINGTON BEACH, CALIFORNIA

DR. B. YERGER	DEPT. D.E.	DWG. NO. D-2098
TR.	SCALE 1/4" = 1'-0"	
APPR.	DATE 3-5-80	SHEET 2A

Dwg. No. 078-86-021B

HUNTINGTON BEACH
078-86-0218
D-2098-3C

CIC00001898



VOID

SCPI Dwg. No. 078-86-021H

REVISION DATE	NO.

AMINOIL USA

HUNTINGTON BEACH
LEASES 392 & 425

DESULFURIZATION FACILITY
EQUIPMENT LAYOUT

DR. B.YERGER	DEPT. D.E.	DWG. NO. D-2098
TR.	SCALE 1/8" = 1'-0"	
APPR.	DATE 5-01-86	SHEETS, SHEET 8

Dwg. No. 078-86-021H

DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-86-021H
D-2098-8-8
JI:2000619A

El. 38.29'
El. 38.43'
El. 38.50'
El. 38.51'
El. 38.39'
El. 38.49'
El. 38.49'
El. 38.93'
El. 38.12'
El. 38.13'
El. 38.05'
El. 38.67'
El. 38.44'
El. 38.62'
El. 38.61'
El. 38.62'
El. 38.40'
El. 38.63'
El. 38.65'
El. 38.63'
El. 38.49'
El. 38.71'
El. 38.53'
El. 38.53'
El. 38.73'
El. 38.62'
El. 38.65'
El. 38.48'
El. 38.45'
El. 38.45'
El. 38.57'
El. 38.80'
B.M. El. 38.80'
El. 38.82'
El. 38.81'
El. 38.64'
El. 33.25'
El. 38.94'
El. 38.72'
El. 33.29'
Contactor #2
Contactor #1
T-3 ℄ Oxidizer TANK
T-1 ℄ Sulfur Skim
T-2 ℄ Flotation Cell
T-4 PUMP SURGE TANK
V-1 INLET GAS SCRUBBER
V-4 OIGCH GAS SCRUBBER
P-5
P-7 PUMP ℄
CONC. SLAB 5'-6" x 5'-6"
15'-4 1/8"
13 5/16"
4"x3" C. RED. (IN VERT.)
2" WORCESTER BALL VA. W/ S.30 ACTUATOR
(To Be Installed)
South Bolsa ℄ 163/426 Wet Gas
8" To Gas Plant #11
3'-2 1/2" CLEAR HEIGHT
Low Pressure Final Gas Scrubber
12'-4 3/8"
3" CONDENSATE TO PIT B1 @ T.F. #1
B D-2098 -13
A D-2098 -13
10" BY-PASS
8" BY-PASS
10" BY-PASS
LCV V4-A
LCV V4-B
LV V1-A
LV V1-B
FV P7
FH
FN
2

SCPI Dwg. No. 078-86-021L

REVISION DATE	BY
12-29-89	BM
5-91	JFJ

ADD LCV V4-B & LV-V1-B & P-7 ⚠2

AMINOIL USA

LEASES 392 & 425
GAS CONTACTOR UNIT
PIPING PLAN

DR. B.W. | DEPT. C.E. | DWG. NO. D-2098
TR. | SCALE 3/8"=1'-0" | SHEETS - SHEET 12
APP. | DATE 2-'92

Shell Calif. Prod. Inc.
Engr. No. 078-86-021L

HUNTINGTON BEACH
078-86-021L
D-2098-12
C12808819?

SIGNAL GAS LINES 6" & 12"

CHEMICAL TANKS

40" COV.

18" COV.

PROPOSED PROPERTY LINE

CANTE BOILER

18" COV.

CANTE PRECISION METER SHOP

CHEM. SHOP

A/C FAC

CHEM.

1" WATER
1" AIR
1" GAS
1" CONDUIT

STD. OIL LINES 1-10" & 2-2 1/8"

3 TRANSFORMERS

POWER LINES

SIGNAL GAS LINES 6" & 12"

RACK

DOCK

STORAGE OFFICE | PARKING | ENGINE | WELD SHOP | SLAB

PAINT

PRODUCTION

ELECTRICAL

OIL

10" TILE DRAIN 12" COVER
1 1/4" GAS 6" COV. DEAD
2" WATER - 6" COV. DEAD
2-1/2" GAS - 6" COV.
2-1/2" WATER - 6" COV.

CARPENTER SHOP | ELECTRIC SHOP
PARKING AREA
CARPORT

1 1/2" CONDUIT

CHANSE HOUSE

SPRV.
STA.

6" DRAIN

1/2" WATER
1" GAS
1" AIR

1" AIR
1" WATER

E.N.E. CONST. BLDG.

VAULT

LOCK

STORAGE

PARKING AREA

OFFICE CONST. ENGR. | WAREHOUSE | REPAIR SHOP

GARAGE

OFFICE

STD. WELL

4" CONDUIT

2" CONDUIT

ABANDONED

FENCE & GATE

CALIF OIL

MAIN OFFICE BLDG.

PARKING AREA

STORAGE GARAGE

6" DRAIN

RAMP

PIPE CHASE

RAMP

DATE	DESCRIPTION	BY	APP'D
7-19-66	REVISED	SWEET	

REVISIONS

SIGNAL OIL AND GAS COMPANY

GENERAL YARD AREA
HUNTINGTON BEACH LEASES

HUNTINGTON BEACH, CALIF.

DR. J. [illegible]
TR.
CH.
APPR. S. WILLARD

DATE 6 MAY
SCALE 1" = 40'
DATE 21-55

DWG. NO. D-1884

SCPI Dwg No. 078-86-024C

Shell Calif. Prod. Inc. Lse. No. 078-86-024C

HUNTINGTON BEACH
078-86-024C
D-1884-2
31200080354

31200080354

NOTE: FOR GAS PLANT SITE SEE SIGNAL DWG. B-304

34 / 3 / 33 / 4

S 89°10'(Rec) N 0°45'57"W (Rec) 688.20'(Rec) 328.10'(Rec)

N 89°14'15" E 328.60'(Rec)

N 89°14'15" E 660.81' (Rec.)

END OF PIPE

N 1°48'40" W 141.80'

N 1°22'20" E 117.45'

TIE TO CORNER OF REC. SURVEY S 5°37'20" W 35.95'

N 1°11'40" W 309.85'

N 0°41'40" W 340.48'

58.64'

N 41°33'30" E 129.00'

N 0°34'40" W 951.03'

PIPE - LINE LOCATION - (14"-6"-10" GAS LINES)

N 0°39'58" W 1575.04'

N 0°20'42" W (Calc) 521.60'

N 89°14'04" E - 660.30' (Rec)

N 0°40'47" W (Calc) 930.09'

N. 89°20'10" E - 1659.83' (Rec)

N. 89°20'10" E. - 1660.06' (Sur)

N 59°57'49.5" E

N 53°59'41" E

N 29°00'59" E

N 77°12'29" E

N. 12°47'51" W. - 160.06' (Sur)

N. 44°07'55" W. 1941.47' (Sur)

2408.43'

S. 44°00'00" E. (Sur) STD. BASE LINE

N 40°36'00" E. 8TH STREET

S. 49°22'07" E - 1151.73' (Sur)

S. 49°22'40" E. 500.00 (Sur)

S. 49°20'40" E. 500.15 (Sur)

S. 49°23'00" E. 499.90' (Sur)

S. 49°23'50" E. 500.00' (Sur)

S. 49°23'00" E. - 1739.37' (Sur)

STANDARD OIL CO. BASE LINE

N. 49°24'00" W. - 1395.57' (Sur)

HUNTINGTON BEACH LEASE LINE

N. 49°18'20" W. - 1522.22' (Sur)

N. 47°04'30" W. - 1758.56' (Sur)

N 0°45'00" W 280.00'

N 45°51'00" E 94.00'

N 0°21'00" E 72.00'

N 45°23'00" E

N 40°37'00" E

VIC CASE BASE LINE

N 49°24'00" W. - 2675.10' (Sur)

RECORD OF SURVEY LINE

S. 49°23'00" E. - 2240.92' (Rec) ℄ OCEAN AVENUE

N 45°39'00" W 26.30

N 44°21'00" E 280.00

424.00' (Sur)

N. 45°53'52" W. - 2827.59' (Sur)

S. 44°37'00" E. - 3535.88' (Rec)

S 0°47'16" E. - 899.88' (Rec) 38.81' (Sur)

N 45°52'30" E 218.46' (Sur)

N 45°52'30" E 200.77' (Sur)

76.99' (SUR)

N 29°00'59" E

N 42°55'10" E

216.81'

1420.22' (Sur)

Δ=13°54'11" R=1540' L=373.69' (Sur)

Δ=64°58'42" R=1510' (Sur) L=668.69'

N 60°59'01" W (Sur) 385.04

Δ=17°19'29.8" R=1510' (Sur) L=456.45'

Δ=3°03'58" R=1510' (Sur) L=80.80'

Δ=9°19'10.4" R=1510' (Sur) L=245.74'

Δ=8°00'01.5" R=1150' (Sur) L=160.58

Δ=7°26'07" R=1050' (Sur) L=136.26

S 36°36'58.5" E

S 37°10'53" E

S 44°37'00" E

PALM AVE.

ACACIA AVE.

MAGNOLIA AVE.

ORANGE AVE.

OLIVE AVE.

WALNUT

℄ 23RD STREET (N 41°36'00" E. Const'd.) (N 41°36'00" E. Const'd.)

85.45

247.05

N 40°36'00" E 1327.00' (Rec)

125.00'

30

DATE	DESCRIPTION	DR.	APPR.
9-23-63	REVISE BEARINGS	C.H.	

REVISIONS

SCPI Dwg No. 078-86-024 P

BASIS OF BEARINGS
The centerline of 23rd Street being N. 40°36'00" E. per Record of Survey Book 59 Pages 1 and 3

NOTE: (Rec) When Noted refers to Record of Survey Book 59 pages 1 & 3 Records of Orange County.

(Sur) When Noted refers to Survey Work By Vic Case from Which This Map Was Drawn.

SIGNAL OIL AND GAS COMPANY

SURFACE OPERATIONAL AREA LEASES 392 & 425 BASE LINE SURVEY DATA

HUNTINGTON BEACH, CALIFORNIA

DR. Althoff	DEPT. ENGR.	DWG. NO. D-1884
TR.	SCALE 1" = 200'	
CH.	DATE 6-7-63	4 SHEETS-SHEET 3
APPR. G.R. Leard		

Shell Calif. Prod. Inc.
Dwg. No. 078-86-024 D

HUNTINGTON BEACH
078-86-024D
D-1884-C
JC2008835S

DWG. NO D-2031
SHEETS - SHEET 0

ROADWAY

True North

Plant North

Std. S.W. #4

Edge of Prop. A.C.

LIGHT STD.

M. P.

P.P.

Pipe Flume E. 74'-0"

℄ P.S. "5" E. 83'-8"

℄ P.S. "9" 10 11 12 E. 105'-6

L.P.

2'-0" Apron 4" Thk.

T.O.C. El. 9'-0"

T.O.C. El. 10'-1"

2'-0"

℄ P.S. "1" N. 43'-1"

℄ Pump N. 43'-1"

℄ Engine N. 41'-10½"

4'-0" 3'-0" 3'-0" 4'-0"

5'-9½"

4" Concrete 6"x6"x10"x10" Mesh

Mat for Gas Units

℄ P.S. "7" 8 E. 88'-0"

℄ Pump N. 28'-1"

℄ Engine N. 26'-10½"

T.O.P. El. 9'-4¼"

15'-0"

5'-9½"

8" Casing - 12" Cover

℄ Pump N. 26'-1"

℄ P.S. "2" N. 28'-1"

Mat for Turbine Units

1'-8½"

7'-6½"

1'-2½" 3'-9½" 10'-3" 1'-6"

2'-0"

4" Concrete 6"x6"x10"x10" Mesh

26" Drain

10'-0"

11'-6"

7'-3¾"

℄ Pump N. 11'-1"

℄ P.S. "3" N. 13'-1"

T.O.P. El. 8'-11⅞"

Sump

℄ Comp. Tank N. 11'-6"

Gas Scrb. E. 89'-0"

Lube Oil N. 4'-6"

Pump

500 BBL 2 Ring

500 BBL 2 Ring

S.W. #12

Gravel Walk Equipment

SO_2 Skid

Base Line

S.O.2 Skid

N. 0'-E. 0'

Base Line

T.O.C. El. 8'-10"

L.P.

Slope 1"/Ft.

Elect. Panel

L.P.

Exist. Block Wall

New Block Wall

℄ P.S. "4" S. 6'-11"

Bridge

℄ Pipe Chase S. 23'-2"

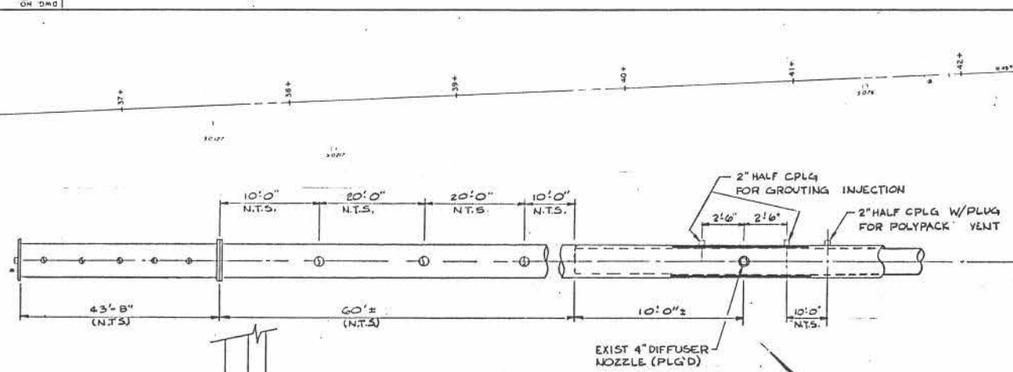
Shell Calif. Prod. Inc.
Dwg. No. 078-86-024DN

REVISION DATE	DR.	SIGNAL OIL AND GAS COMPANY
		HUNTINGTON BEACH P.R.C. 392.1
		PLOT PLAN
		LOWER MAIN ZONE
		WATER INJECTION PLANT
		ORANGE COUNTY, CALIF.
DR. Graham	DEPT. Design Engr.	DWG. NO. D-2031
TR.	SCALE ⅛" = 1'-0"	
APPR.	DATE 10-1-68	SHEETS - SHEET 0

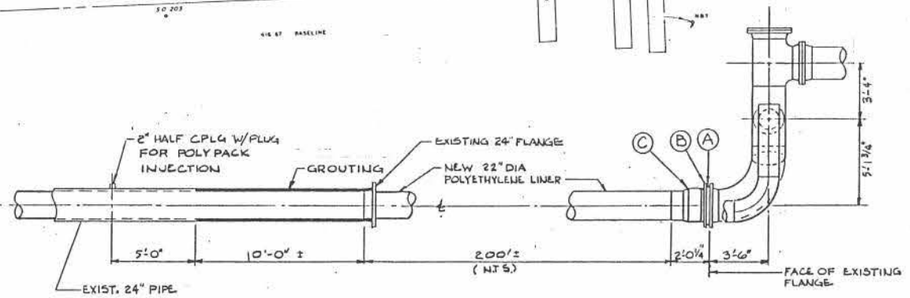
80 4411

D.E. File # 705-5-8

HUNTINGTON BEACH
078-86-024DN
D-2031
0120888936

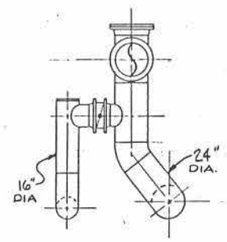


DETAIL
EXISTING DIFFUSER PIPING
1/4"=1'-0"



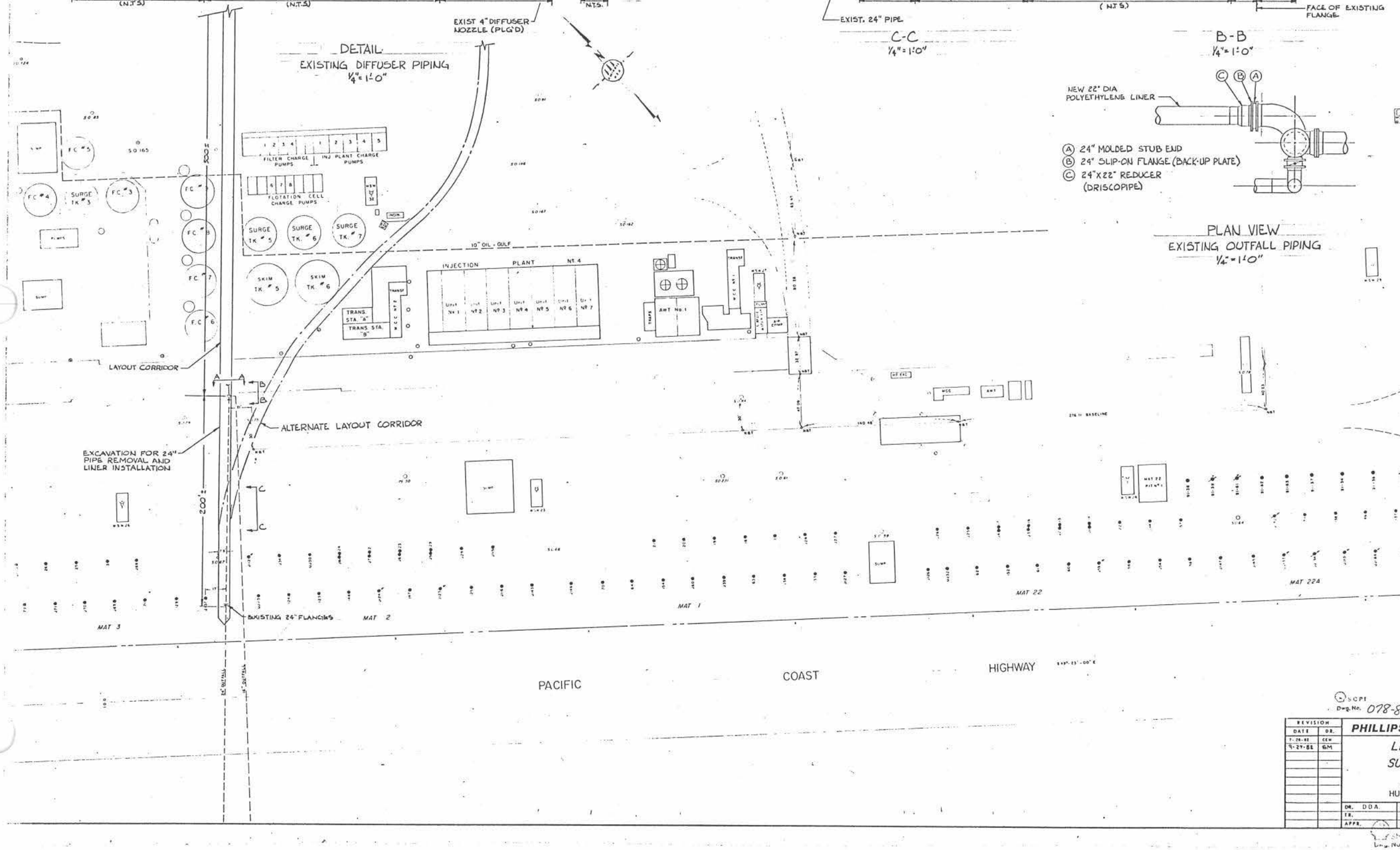
C-C
1/4"=1'-0"

B-B
1/4"=1'-0"



A-A
1/4"=1'-0"

PLAN VIEW
EXISTING OUTFALL PIPING
1/4"=1'-0"



SCPI Dwg. No. 078-86-024M

REVISION DATE	DR.
7-26-82	CEH
9-27-85	GM

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEACH, CALIF.

DR. D.D.A.	DEPT. DESIGN ENGR.	DWG. NO.
T.R.	SCALE 1"= 40'	D-1907
APPR.	DATE 5-24-71	6 SHEETS-SHEET 6

Southern Calif. Prod. Inc. Dwg. No. 078-86-024M

HUNTINGTON BEACH
078-86-024M
D-1907-8
31200868C

HUNTINGTON "B" L'SE

EASEMENT LINE

EXIST 50' TRANS W.W. LINE

TANK FARM No 2

EQUIPMENT STORAGE YARD

PIPE STORAGE YARD

HELIPORT

Match Line

WATER INJ. PLANT 5

CHEM. STOR PAD

MAIN PIPE CHASE

BOLSA "B" L'SE

MAT B15

MAT B1

MAT C-8

MAT 12

MAT 11

MAT 10

OCEAN AVENUE

PACIFIC ELECTRIC RAILWAY R/W

PACIFIC ELECTRIC L'SE

HUNTINGTON "B" L'SE

HUNTINGTON BEACH EASEMENT LINE

EXIST. 30' TRANSITE W.W. LINE

EXIST. P POLE

PARCEL 6

PARCEL 5

W.W. FILTRATION PLANT

PARCEL 4

ROADWAY

PARCEL 13

PARCEL 12

PARCEL 1

PARCEL 7

PARCEL 8

PARCEL 14

PARCEL 3

BASELINE

16" Outfall Line

PARCEL 17

PARCEL 16

PARCEL 15

23RD ST.

MAT 9

MAT 8

MAT 7

MAT 6

MAT 5

MAT 4

MAT 3

MAT 2

MAT 1

MAT 22

STOCKADE

RECEIVING WELDSH

STOR GARAGE

ENGINE REPAIR

OFFICE

MAIN OFFICE

GARAGE

PARKING AREA

OIL & WATER LAB

T. 6 S. R. 11 W.

SEC. 4 3 9 10

PACIFIC ELECTRIG L'SE

PACIFIC OCEAN

LEGEND:
- OIL WELL
- WATER WELL
- WATER INJECTION WELL
- DUAL WELL CELLAR
- SALT WATER DISPOSAL WELL

SCPI Dwg. No. 078-88-0821-D2

DATE	DESCRIPTION	DR.
2-10-75	ADDED PARCELS 13,16 AND 17	Aircraft
5-9-73	Revised Parcels 5, 12, & 13 - Added Parcel 16	Aircraft

REVISIONS

AMINOIL USA

LEASES 392, 425 & 91
SURFACE FACILITIES

HUNTINGTON BEACH CALIFORNIA

DR Aircraft	DEPT. CONST.-ENGR	DWG NO. D-2087
TR.	SCALE 1" = 100'	
CH.	DATE 13 JUNE 72	
APPR	SHEET 1 SHEET 1	

Dwg No. 078-76-0252

HUNTINGTON BEACH 078-88-0230Z D-2087-1

JI 2080C3C9

ACC 6980 BEC

HUNTINGTON "B" L'SE

BOLSA "B" L'SE

PACIFIC ELECTRIC L'SE

OCEAN AVENUE

PACIFIC ELECTRIC RAILWAY R/W

EASEMENT LINE

MAIN PIPE CHASE

ALLEY FOR PIPE CHASE EXPANSION

TANK FARM No 2

CAUSTIC FLOOD PILOT PLANT

WATER INJ. PLANT 3

CHEMICAL TREATING

CHEM. STOR. PAD

EQUIPMENT STORAGE YARD

FIRE STORAGE YARD

MATCH LINE - SEE BELOW

MAT C-8

MAT 12

MAT 11

MAT 10

MAT B-15

MAT B-1

HUNTINGTON "B" L'SE

MATCH LINE - SEE ABOVE

HUNTINGTON BEACH EASEMENT LINE

EXIST. 20" TRANSITE W.W. LINE

RECEIVING WHSE

WELD SHOP

CONST. ENGR.

ENGINE STORAGE

OFFICE

MAIN OFFICE

STORAGE BLDG.

GAS ENGINE-AUTOMOTIVE REPAIR SHOP

EDISON 66.12 KV SUBSTATION

4 Ea. 50M BTU/Hr STEAMERS W/PIGGY BACK SCRUBBERS

30' X 100' SOFTENER & FUEL FAC.

AREA I

W.W. FILTRATION PLANT

WATER KNOCK OUT AREA

WATER INJ. PLANT 4

ROADWAY

AREA IV
WATER SOFTENING & TREATING PLANT FOR ALKALINE FLOOD EXPANSION (SI LEASE UTILIZATION ESTIMATED TO BE 13%)

AREA V
8' WIDE EASEMENT FOR PIPELINES WITHIN EXISTING PIPE CHASE. CONTINGENT ON AVAILABLE SPACE.

AREA II
LEASE 91 UTILIZATION AT FULL DEVELOPMENT ESTIMATED TO BE 40%

SOFT. PLANT

SOLIDS SLUR.

AUXILIARY EQUIPMENT AREA

SCRUBBERS

SERVICE AREA

AREA III b

AREA III a

23RD ST

MAT 9

MAT 8

MAT 6

MAT 5

MAT 4

MAT 3

MAT 7

MAT 22

MAT 22-A

EXHIBIT I

PROPOSED SURFACE USE REQUIREMENTS
PROPOSED EOR PROJECTS
LEGEND

LEASE 392 UTILIZATION

LEASE 91 UTILIZATION

COMBINED LEASE 91, 392/425 UTILIZATION

T. 6 S., R. 11 W.

43 9 10

PACIFIC ELECTRIC L'SE

PACIFIC OCEAN

LEGEND

- OIL WELL
- DUAL WELL CELLAR
- WATER INJECTION WELL
- SALT WATER DISPOSAL WELL
- SOURCE WATER WELL
- WATER OBSERVATION WELL
- ABANDONED OIL WELL
- SHUT-IN OIL WELL

SCP! Dwg. No. ~~078-86-034/EA~~

REVISIONS			
DATE	DESCRIPTION	BY	NO.
11-14-80	BOXED OUT SERVICE AND AUX EQUIP AREA	CS	1
11-6-80	ADDED AREA IV - PIPE CHASE	CS	2

AMINOIL USA

LEASES 392,425 & 91
SURFACE FACILITIES
EXHIBIT I

HUNTINGTON BEACH CALIFORNIA

DR. Arnold	DEPT COSTA-EMBA	DWG. NO. D-2087
TB	SCALE 1" = 160'	
CH	DATE 4-4-68	
APPR	SHEET 2 OF SHEET 2	

HUNTINGTON BEACH
078-86-035EA
D-2087-2

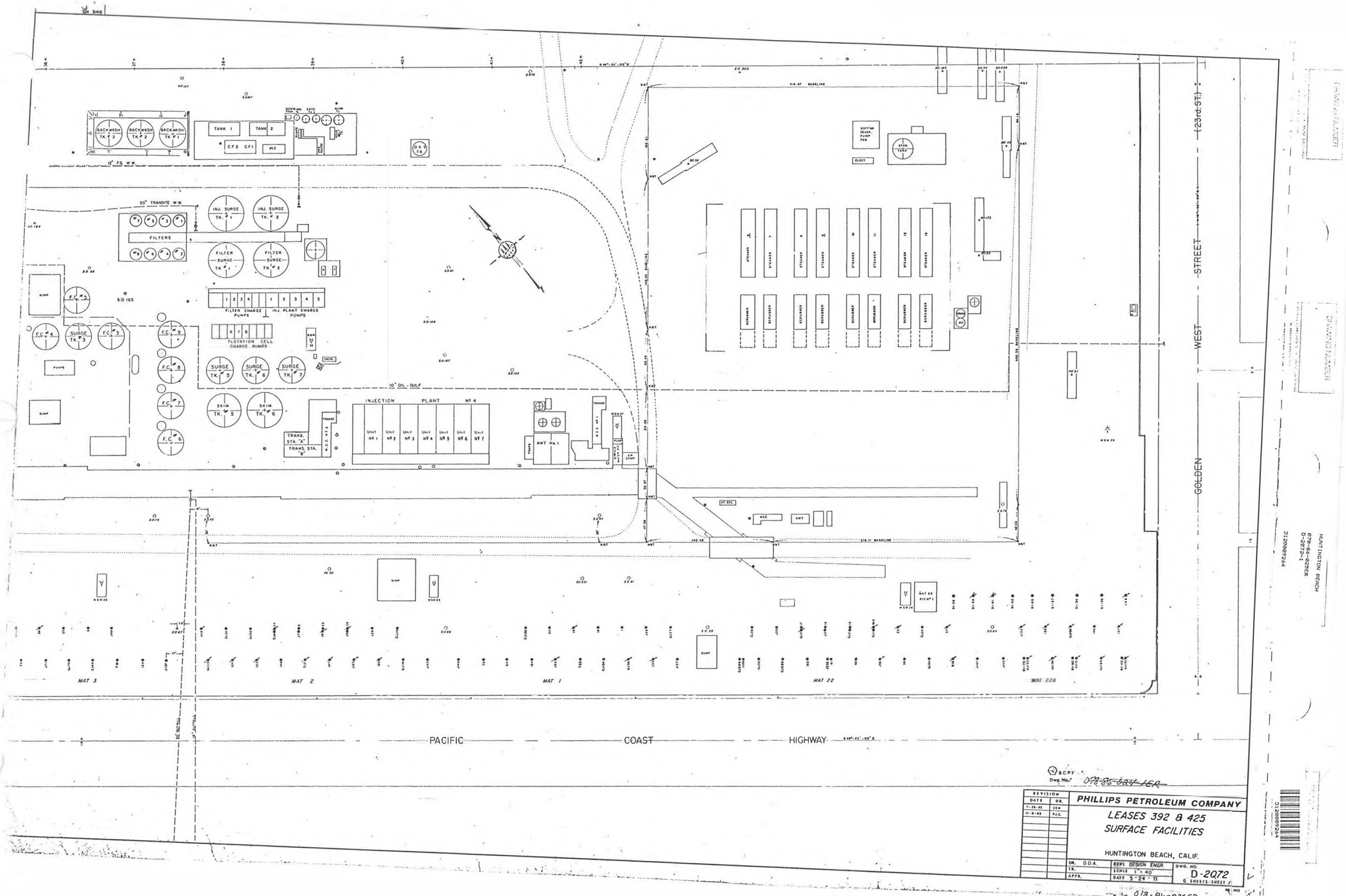
DWG No. 078-86-035EA

BACKWASH TK. # 3
BACKWASH TK. # 2
BACKWASH TK. # 1
TANK 1
TANK 2
CF 2
CF 1
PIT
OXY TK.
INJ. SURGE TK. # 1
INJ. SURGE TK. # 2
FILTERS
FILTER SURGE TK. # 1
FILTER SURGE TK. # 2
SUMP
F.C. # 5
F.C. # 4
SURGE TK. # 4
F.C. # 3
F.C. # 9
F.C. # 2
F.C. # 8
F.C. # 7
F.C. # 1
F.C. # 6
PUMPS
FILTER CHARGE PUMPS
INJ. PLANT CHARGE PUMPS
FLOTATION CELL CHARGE PUMPS
SURGE TK. # 5
SURGE TK. # 6
SURGE TK. # 7
SKIM TK. # 5
SKIM TK. # 6
TRANS STA. "A"
TRANS STA. "B"
INJECTION PLANT NO. 4
Unit No. 1
Unit No. 2
Unit No. 3
Unit No. 4
Unit No. 5
Unit No. 6
Unit No. 7
AWT No. 1
Gulf 10" Ship Line
Chev. 6" O-I Ship Line
Chevron Pipeway
8" Chevron Pipeway
64.8'
45°
32°
20.5'
20' 14' 10' 14' 20'
77'
40' 24' 34' 24' 34' 24' 34' 24' 23'
20'
38'
BUILDING
GUARD SHACK
Gulf 10" Line
Drilling Mat 29 Loc.
Drilling Mat 12 Loc.
Buried Pipelines
10" Chevron Pipeway
WEST (23rd ST.)
GOLDEN
MAT 3
MAT 2
MAT 1
MAT 22
MAT 22A
PACIFIC COAST HIGHWAY
Use to Update sh 1
SCPI Dwg. No. CAB 80 0814 1 C2
HUNTINGTON BEACH
076-56-02 SEC
D-2072-1
D12B89263

REVISION	DATE	DR.
	7-2-81	CF
	10-22-81	C.E.M.
	9-7-82	E.L.A.

AMINOIL USA
LEASES 392 & 425
SURFACE FACILITIES
HUNTINGTON BEACH, CALIF.

DR. D.D.A.	DEPT. DESIGN ENGR.	DWG. NO. D-2072
CH.	SCALE 1" = 40'	
APPR.	DATE 5-24-71	SHEET 1 - SHEET 1



SCPV
Dwg. No. ~~078-86-025 ER~~

REVISION	
DATE	DR.
7-26-85	CEM
11-8-85	P.J.C.

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEACH, CALIF.

DR. D.D.A.	REPT. DESIGN ENGR.	DWG. NO.	
TR.	SCALE 1" = 40'	D-2072	
APPR.	DATE 5-24-71	6 SHEETS-SHEET 1	

078-86-025ER

EDISON
66-12 KV
SUBSTATION

12 KV SWGR

15 KV SWITCHGEAR BUILDING

4"C - 3 #/0 12KV

20" TRANSITE W.W.

12" F.G. W.W.

4" F.G. W.W.

OIL & WATER LAB.

BRIN PIT

BOILERS

HEME HEATERS

SO_2 STORAGE FACILITY

12 KV CABLE

CHEV. INJ. PLT. AREA

Cl_2 BLDG.

BACK WASH TK. 3

BACK WASH TK 2

BACK WASH TK 1

FILTERS

L.A.C.T. AREA

LAB OFFICE

BLOCK BLDG.

10" OIL GAS F

SURGE 3

FC. 5

FC. 4

FC. 3

FC. 2

FC. 1

PUMPS

SUMP

PUMP PAD

W.C.C. 3

TRANSF.

TRANS STA 2
1500 KVA

STEAM PAC.

COMP.

ART "A" GATE 2&5

CHEM. PAD

REPAIR

MAT 3

MAT 4

MAT 5

MAT 6

PACIFIC COAST HIGHWAY

SCPI
Dwg. No. 078-86-004-LEUS

REVISION	
DATE	BR.
2-12-73	C.L.A.
11-9-85	P.J.C.

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEAL, CALIF.

DR. D.D.A.	OPPL DESIGN ENGR.	DWG. NO.	D-2072
TR.	SCALE 1" = 40'	SHEET 2 OF 2 SHEETS	
APPR.	DATE 6-24-71		

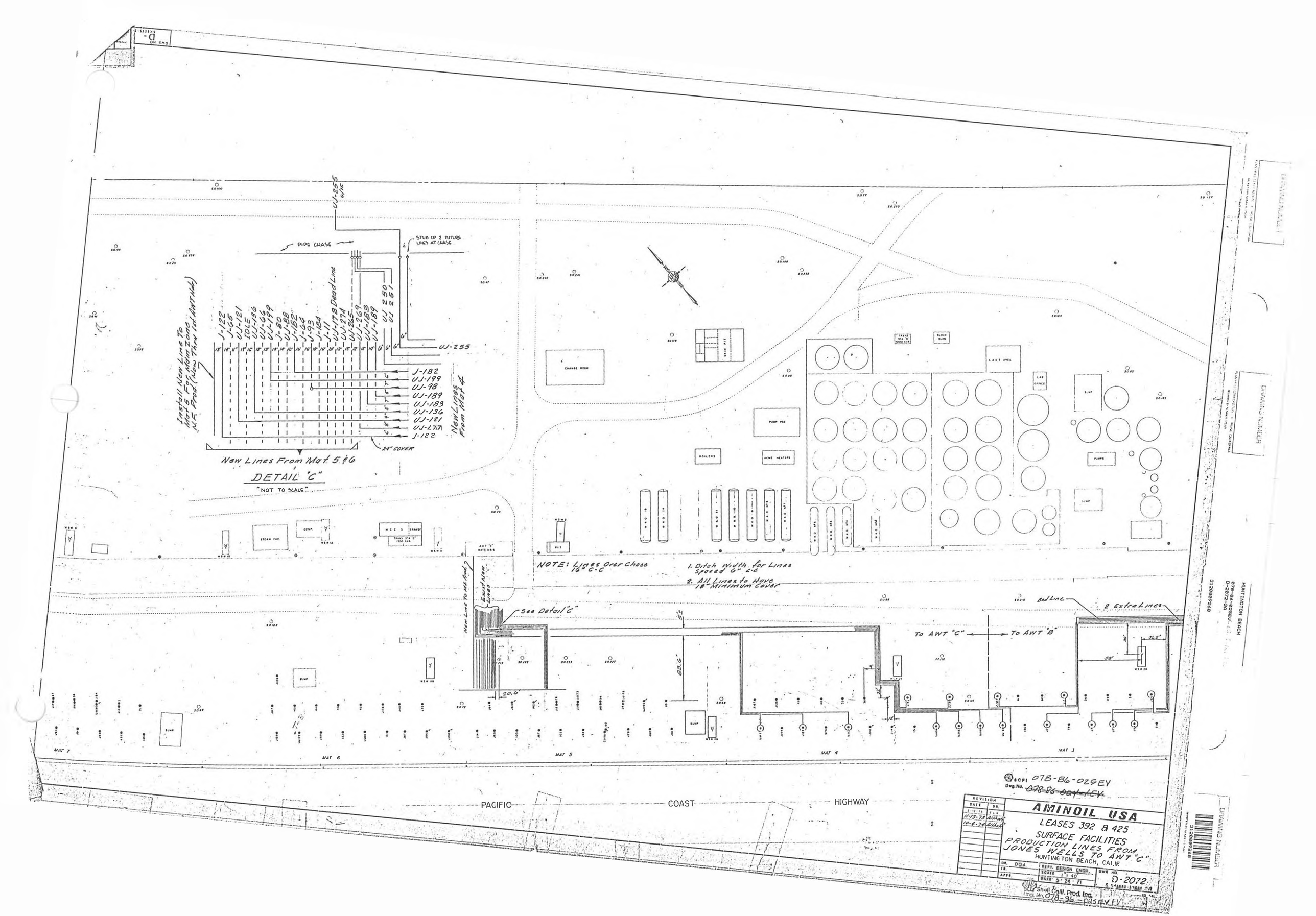
HUNTINGTON BEACH
078-86-035EU
D-2072-2

3120009261

078-86-045EU

DETAIL "C"

"NOT TO SCALE"



SCPI 078-86-025EV

Dwg. No. ~~078-86-024-EV~~

REVISION	DR.
DATE	
11-12-75	Allen
10-6-76	Allen

AMINOIL USA

LEASES 392 & 425

SURFACE FACILITIES

PRODUCTION LINES FROM JONES WELLS TO AWT "C"

HUNTINGTON BEACH, CALIF

DR. DDA	DEPT. DESIGN ENGR.
CH.	SCALE 1" = 50'
APPR.	DATE 5-26-71

DWG NO. D-2072

Shell Calif. Prod. Inc.

Proj. No. 078-34-025EV FV

DRAWING NUMBER 3128089268

HUNTINGTON BEACH 078-86-025EV D-2072-26

3128089268

DWG. NO. D-
SHEETS - SHEET

20" TRANSITE W.W.

12" F.G. W.W.

PACIFIC COAST HIGHWAY

CARPENTER SHOP | STORAGE | ELECTRICAL SHOP | FACILITIES OPERATIONS | RECEIVING | WAREHOUSE | WELD SHOP

PURCHASING

PRODUCTION

FIELD STUDIES | DRAFTING | Computers

ENGINE STORAGE

STERAM

OFFICES

ACCTG.

MAIN OFFICE

DOCK

MAINTENANCE AREA

PRODUCTION WAREHOUSE

MAIN DOCK

TRANS STA "E" 750 KVA

PIT

WASH RACK

STEAM CLEAN & OMITE PIT

GAS PUMP

CAR WASH

STORAGE GARAGE

CHANGE HOUSE

MAINTENANCE OFFICE

MAINTENANCE GARAGE

SCRUBBER | STEAMER

TRANS STA "D" 1500 KVA

TRANS STA.

PIT

SUMP

WSW 3 | WSW 20 | WSW 88

MAT 10 | MAT 9 | MAT 8 | MAT 7

S 44° - 33' - 00" E

REVISION	
DATE	BR.
11-9-83	P.J.C.

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEACH, CALIF.

DR. D.D.A.	DEPT. DESIGN ENGR.	DWG. NO.	D-2072
TR.	SCALE 1" = 40'	SHEETS	1 OF 3
APPR.	DATE 5-29-71		

SCPI Dwg. No. ~~078-88-024-1EW~~

Cal. Coast. Proct. Mng. Dwg. No. 078-86-025 EW-3C

HUNTINGTON BEACH
078-86-025EW
D-2072-3

D120809259

D120809259

PACIFIC COAST HIGHWAY

REVISION DATE	DR.
11-10-83	PJC

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEACH, CALIF.

DR. C-Mc.	DEPT. ENGR.	DWG. NO. D-2072
TR.	SCALE 1"=40'	
APPR.	DATE 9-JULY-1971	SHEETS-SHEET 4

HUNTINGTON BEACH
078-86-923FA
D-2072-4
31230892234

Orig. No. 078-86-024FA

Orig. No. 078-86-023FA

DWG NO. D-
SHEETS-SHEET

DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-86-025FB
D-2072-S

C1268

12 Add

21 Secured

LEASE ROAD

PIPE CHASE

CHEMICAL STORAGE BLDG.

CHEMICAL STORAGE PAD

Office

Transf.Pad

Caustic Flood Pilot Plt.

INJECTION PLANT Nº3

Unit Nº 1

Unit Nº 2

Unit Nº 3

SUMP

MAT C-8

MAT 12

MAT 8-1

PACIFIC COAST HIGHWAY

DCPI
Dwg No. 078-86-024-LFB

REVISION DATE	REVISION BY
11-10-83	P.J.C.

PHILLIPS PETROLEUM COMPANY

LEASES 392 & 425
SURFACE FACILITIES

HUNTINGTON BEACH, CALIF.

DR. C Mc	DEPT. ENGR	DWG. NO.
TR.	SCALE 1" = 40'	D-2072
APPR.	DATE 15 JULY 1971	SHEETS-SHEET 5

DRAWING NUMBER

C1268

Drawing No. 078-86-025 FB

600 FT. LIMIT FROM INJ. PLANT No.4
FALLS ON CHEVRON PROPERTY

GATE

GATE

N 48° 18' 20" W

HUNTINGTON BEACH EASEMENT LINE

N 49° 24' 00" W

H.P.-15'-10"

H.P.-11'-8"

WASTE WATER FILTERATION PLANT

W 3 W 2 W 1

O/W O/W

PIT

H.P.-11'-0"

PRIVATE ROADWAY

MCC

H.P.-11'-4"

TANK FARM No. 1

VRU

I.ACT AREA

OFF.

H.P.-9'-8"

PIT #5

H.P.-12'-0"

CONTROL

7 5 3 1
W W W W
8 6 4 2

PIPE CHASE

PIT #2

PIT #4

PIT #1-A

PIT #1

PIT #3

PIT #2

H.P. FUEL GAS (FROM GAS PLANT)

PROPOSED 10 MVA, 12 KV/4160 V TRANSFORMER (10'-X-10'-X-10' H, APPROX.)

PROPOSED ELECTRIC POWER DISTRIBUTION CENTER (15' W x 32' L x 15' H, APPROX.)

WATER INJECTION PLANT No.4 (SEE NOTE 1)

1 2 3 4 5 6 7

EXIST. SOUND BARRIER WALL 24'-0" HIGH

ELECT. DUCT

PULL BOX

BRIDGE

PIPE CHASE

PRIVATE ROADWAY

BRIDGE

PRIVATE ROADWAY

8 STEAM GENERATORS (50 MM BTU/HR EA.)

6 7 8 9 10 11 12 13

STEAM GENERATOR FAC.

8 CAUSTIC SCRUBBERS

H.P.-12'-0"

INT

ENTRANCE

GUARD HOUSE

GOLDEN WEST BLVD. (23RD ST.)

LEGEND

- O OIL STORAGE
- W WATER STORAGE
- O/W OIL/WATER STORAGE
- C CHEMICAL STORAGE
- I.C. ENGINE EMISSION SOURCE
- EXISTING BUILDINGS
- PROPOSED BUILDINGS
- FUEL GAS SCRUBBERS
- INJECTION WATER SUCTION
- INJECTION WATER DISCHARGE

NOTES:

1. DELAVAL ENGINES No. 1, 2, 3, 4 & 5 TO BE REMOVED AND REPLACED WITH 2000 HP ELECTRIC MOTORS.

PACIFIC COAST HIGHWAY

S 49° 23' 00" E

PACIFIC ELECTRIC RAILWAY R/W

BEACH

OCEAN

DWG. NUMBER | TITLE

REFERENCE DRAWINGS

DATE	REV.	DESCRIPTION	BY	APP'D

RELEASED ONLY FOR:

	FAC. PROJ. ENGR.	DIV. FAC. ENGR.	DATE
APPR.			
RD			
CONST.			

Shell Western E&P Inc. – California

LEASE 392 AND 425
WATER INJECTION PLANT No.4
ENGINE/MOTOR PERMIT PLOT PLAN

HUNTINGTON BEACH FIELD - ORANGE CO., CA.

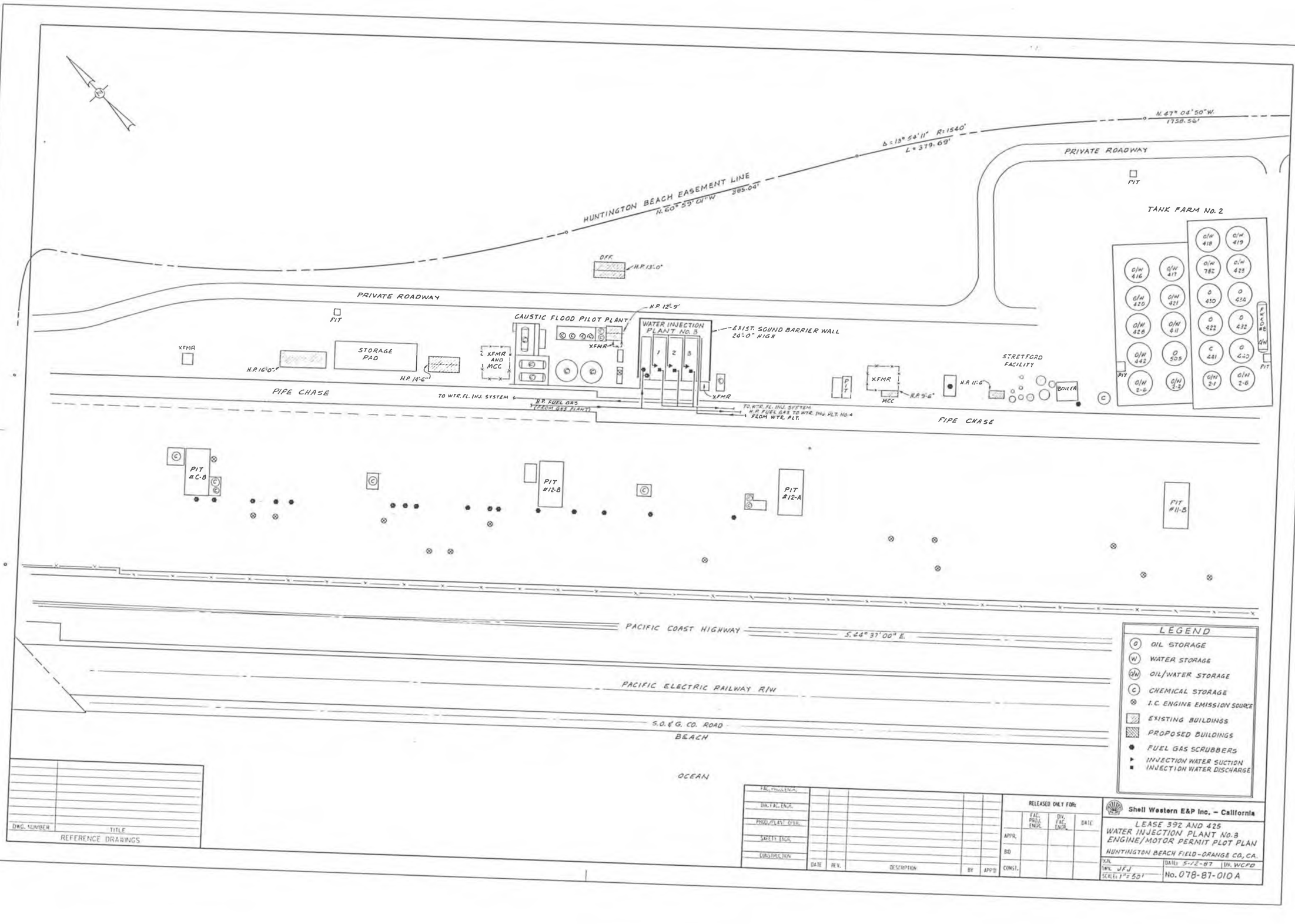
DRN. JFJ | DATE: 4-10-87 | DIV. WCFD
SCALE: 1" = 50' | No. 078-87-010

DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-87-010
PLOT PLANS
LOCATION: HUNTINGTON BEACH
31280136429

31280136429



DRAWING NUMBER

HUNTINGTON BEACH
078-87-010A
LOCATION: MAIG
6000117841

6000117841

BRUNING SUR

N 553,304.79
E 1460,768.76

N 552,760.27
E 1461,949.02

43°05'E
STATE PLANE NORTH
PLANT NORTH

ASPHALT

ASPHALT PARKING AREA

DIRT AREA

GRAVEL AREA

CHEVRON WELL 187

CHEVRON WELL B-61

CHEVRON WELL 242

CHEVRON WELL 232

CHEVRON WELL 232

CHEVRON WELL 180

CHEVRON WELL B-72

CHEVRON WELL B-74A

EDISON SUBSTATION

CHEVRON SUB-STATION

ELECT EQUIP F.F. 103.34

CONC. BLOCK BUILDING F.F. 103.39

CONC. BLOCK BUILDING F.F. 103.19

ELECT VAULT F.F. 103.10

STEAM TRAP BANK

SCRUBBERS

UNUSED TANKS

TANK

INCINERATORS

CONC. BLOCK WALL

CONC. SLAB

TRANS. SLAB

COMPRESSOR SLAB

STM GENERATOR CONC SLAB

CONC. COMPRESSOR SLAB

CONC. TRANSFORMER SLAB F.F. 103.74

CONC. SLAB

A.H.I. WATER

CONC. SLAB

TRAPS

CONC. RAMP OVER PIPE CORRIDOR

12 KV

6 KV MACHINE

50' WIDE PIPE AND POWER CORRIDOR

REVIEWED BY:					
PROJ. ENGR.					
ENGR.					
SUPR.					
EQNET					
SEC.	DATE	REV	REVISION	BY	APPD

RELEASED ONLY FOR:

	GROUP LEADER	DESIGN ENGR	DATE
ENGINEERING			
PRELIMINARY			
BIDDING			
FABRICATION			
ERECTION			

Shell Western E&P Inc. — California

LEASE 392 AND 425
PLOT PLAN
CO-GEN. AREA I
SURFACE FACILITIES, GRID & ELEVATIONS
HUNTINGTON BEACH FIELD - ORANGE CO. CA

DATE 3-12-87 DRAWN RBW SIGN CHK'D
SCALE 1"=30' APPD
No. 078-87-011

DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-87-011
PLOT PLANS
HSNG
LOCATION: D12001328

D12001328

TRUCK LOADING

OXYGEN TANK SLAB

SET SPINDLE POINT EL 100.00

N 552,012.67
E 1462,235.31

DOWN DRAIN

CHEVRON WELL 228

DETERIORATED OIL

CHEVRON WELL 91

CHEVRON WELL 176

CMC. CLASS

12KV POWER

CHEVRON WELL 76

ALLEY 20' WIDE

CHEVRON WELL 203

CHEVRON WELL 58

NO. PAR UNIT

6" U.S. PIPELINE

U.G. CHEVRON OIL LINE

WATER SOFTNER

BRINE TANK

INSULATED TANK

100.40 TOP

BLOCK WALL

CHEVRON WELL 185

CHEVRON WELL 58

CHEVRON WELL 226

CHEVRON WELL 69

CHEVRON WELL 173

CHEVRON WELL 53

GENERATORS

SCRUBBERS

CAUSTIC TANK

PIT

GUARD HOUSE AND ISLAND

CHEVRON WELL 51

CHEVRON WELL 147

ASPHALT ROAD

A.G. PIPELINES

U.G. PIPELINES

N 551,415.70
E 1462,908.83

CMC. BLOCK WALL

6" SWPA LINE

6" CHEVRON LINE

12KV POWER

GALDWIN WATER BLVD.

TANK SLAB

CMC. BLOCK WALL

6" INTR. WATER COND. LAP

STATE RANGE NORTH

41° 33' 08"

PLANT NORTH

DWG. NUMBER	TITLE
	REFERENCE DRAWINGS

	DATE	REV.	DESCRIPTION	BY	APP'D
PROJ. ENGR.					
DIV. FAC. ENGR.					
PROD. PLANT ENGR.					
SAFETY ENGR.					
CONSTRUCTION					

RELEASED ONLY FOR:

	FAC. PROJ. ENGR.	DIV. FAC. ENGR.	DATE
APPR.			
BD			
CONSL.			

Shell Western E&P Inc. – California

LEASE 392 AND 425
PLOT PLAN
CO-GEN. AREA II
SURFACE FACILITIES, GRID & ELEVATIONS
HUNTINGTON BEACH FIELD - ORANGE CO., CA.

JOB	DATE: 3-17-87	DIV.
DWN. RAW	SCALE: 1" = 30'	No. 078-87-011A

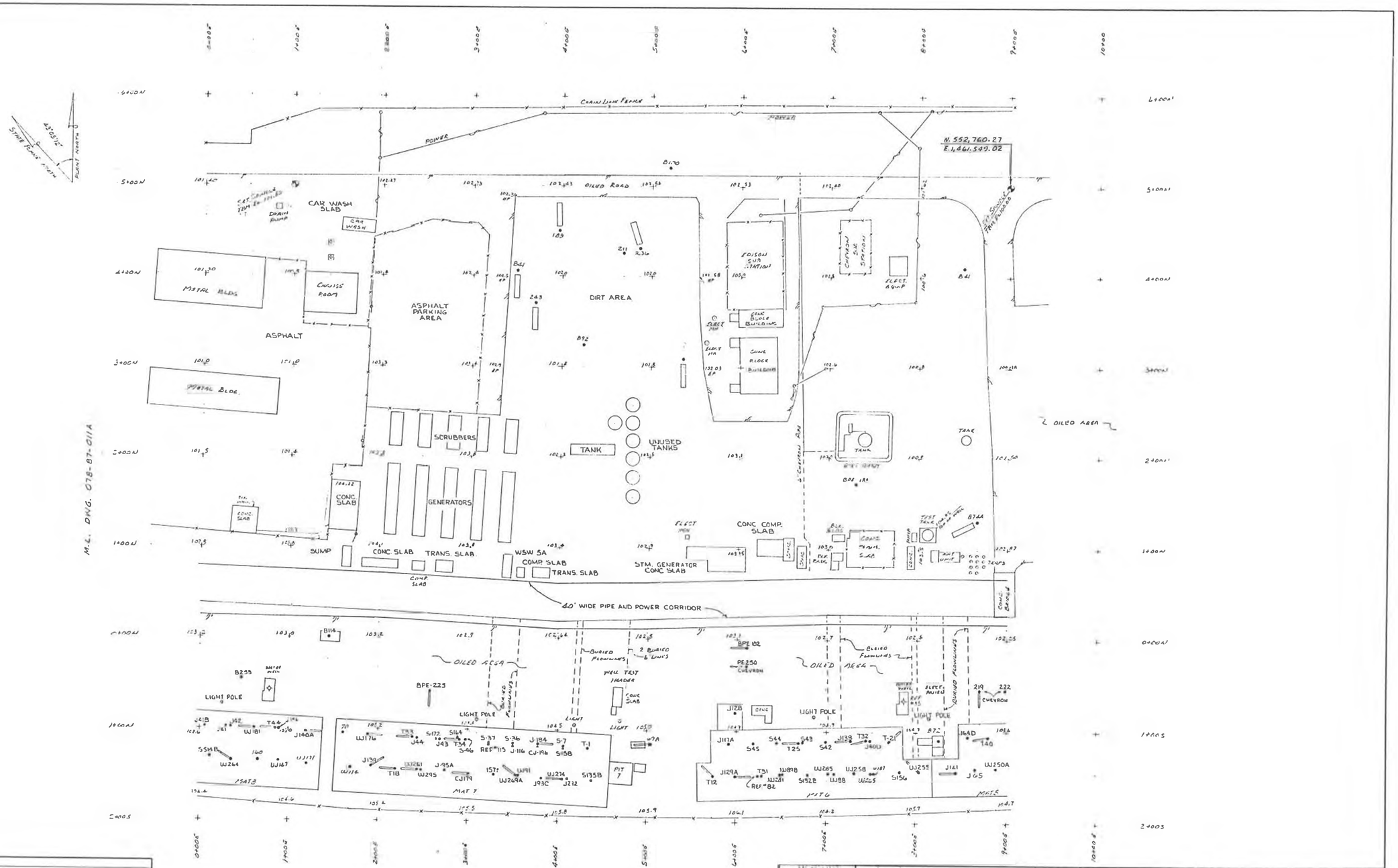
DRAWING NUMBER

DRAWING NUMBER

HUNTINGTON BEACH
078-87-011A
MAP PLANS
LOCATION: HANG
J120013627

J120013627

BRUNING CO 5030



DWG. NUMBER	TITLE
	REFERENCE DRAWINGS

DATE	REV.	DESCRIPTION	BY	APP'D

RELEASED ONLY FOR:

	TAC. PROJ. ENGR.	DIV. TAC. ENGR.	DATE
APPR.			
RD			
CONST.			

Shell Western E&P Inc. – California

LEASE 392 AND 425
PLOT PLAN
SURFACE FACILITIES, GRID & ELEVATIONS
HUNTINGTON BEACH FIELD - ORANGE CO. CA.

DRN. | DATE: 1-12-87 | DR. W.E.P.D.
DSN. | CK'D.
SCALES: 1"=50' | No. 078-87-011B

DRAWING NUMBER

078-87-011B

HUNTINGTON BEACH

LOCATION: HUNT. FLAT FILES
012001.0624

DRAWING NUMBER

PLAN HOLD DESIGNATION • FINAL CONSTRUCTION

RECORD OF MAINTENANCE

DRAWING NUMBER

PLAN HOLD DESIGNATION • FINAL CONSTRUCTION

RECORD OF MAINTENANCE

11+00 W 10+00 W 9+00 W 8+00 W 7+00 W 6+00 W 5+00 W 4+00 W 3+00 W 2+00 W 1+00 W 0+00 W

6+00 N

CONCRETE WALL

ELECT. BOX

CHAIN LINK FENCE

STATE PLANE NORTH

AZIMUTH 12°

POINT NORTH

5+00 N

OILED ROAD

SET SPINDLE EL. 104.98

CHAINLINK FENCE

DIRT AREA

CRANE RAMP

4+00 N

METAL BLDG.

BLK. WALL

~ DIRT AREA ~

GAS PUMP ISLAND

CONC.

3+00 N

BPE 187

BPE 101

STUCCO BLDG.

METAL BLDG.

OFFICE

BPE 96

~ OILED AREA ~

MOBIL OFFICE

2+00 N

METAL BLDG.

TRANS. BANK

ELECT.

MAIN OFFICE

STUCCO BLDG.

~ OILED AREA ~

CONC.

METAL BLDG.

CONC.

TRUCK WASH

TANK IN-SIDE BLK WALL

1+00 N

CONC. BRIDGE

40' PIPE AND POWER CORRIDOR

OILED ROAD

PIT 10B

BURIED PIPELINES

FENCED PIT #9

FENCED PIT #8

0+00 N

WATER WELL 3A

LIGHT POLE

WATER WELL

LIGHT POLE

1+00 S

MAT 10

CHAINLINK FENCE

BLK WALL

GATE

BLK. WALL

MAT 9

CHAINLINK FENCE

MAT 8

2+00 S

M.L. DWG. 078-87-011B

DWG. NUMBER	TITLE
	REFERENCE DRAWINGS

FAC. PROJ. ENGR.					
DIV. FAC. ENGR.					
PROD./LEASE OPER.					
SAFETY ENGR.					
CONSTRUCTION					
	DATE	REV.	DESCRIPTION	BY	APP'D

RELEASED ONLY FOR:

	FAC. PROJ. ENGR.	DIV. FAC. ENGR.	DATE
APPR.			
BID			
CONST.			

Shell Western E&P Inc. – California

LEASE 392 AND 425
PLOT PLAN
SURFACE FACILITIES, GRID & ELEVATIONS

HUNTINGTON BEACH FIELD - ORANGE CO., CA.

DRN.	DATE: 5-10-87 | DIV. W.C.P.D.
CHK.	RAW
SCALE:	1"=50'

No. 078-87-011C

HUNTINGTON BEACH
078-87-011C
PLOT PLANS
LOCATION: MAINC
312801312626

BRUNING CO. 5070

LOT 5 | LOT 6 | LOT 7 | LOT 8 | LOT 9

LOT 10

LOT 11

SOUTHERN EDISON EASEMENT

600' RADIUS

HUNTINGTON SEACLIFF COUNTRY CLUB
OWNER: HUNTING TON BEACH CA.
PROPERTY TAX DEPT.
555 BUSH STREET
SAN FRANCISCO, CA
94108

PARCEL 2 PM 113/18-19
OWNER: SEACLIFF ESTATES
330 MAIN STREET
HUNTINGTON BEACH, CA.
92648

OWNER: SEACLIFF NO THE CROWDS
CONDUNITY ASSN
SEACLIFF ESTATES
468 SILVER SPUR RD.
SUITE 230
ROLLING HILLS ESTATES, CA.
90274

PARCEL 1
PM 83-36L

PALOS VERDES AVENUE BEHIND OF CITY OF HUNTINGTON BEACH

TRACT 10869 LOT OWNERS
LOT 99: ESTATE SWIFT OF SEACLIFF HOMEOWNERS ASSN.
RICHARD K. REYNOLDS
ATTN: CATHAY DEVELOPMENT
608 SILVER SPUR ROAD
ROLLING HILLS ESTATES, CA 90274

LOT 6: CARL SKAVINSKI JR.
19236 WOODLANDS LANE
HUNTINGTON BEACH, CA 92648

LOT 6: DONALD W. JEFFREY JR.
19248 WOODLANDS LANE
HUNTINGTON BEACH, CA. 92648

LOT 7: CONSTANTINO SALAS JR.
8282 TOWNHOUSE CIRCLE
HUNTINGTON BEACH, CA. 92648

SHOP BUILDING
22'-1" HIGH

STORAGE GARAGE
23.0' HIGH

CHOKER ROOM
11.0' HIGH

CONTAMINATED SOIL BLDG.
13.8' HIGH

STORAGE
23.5' HIGH

MAINT. OFFICE
19.6' HIGH

GARAGE
21.6' HIGH

MAINT. OFFICE
14.0' HIGH

MAIN OFFICE
18.5' HIGH

BLOCK BLDG
18.0' HIGH

BLOCK BLDG
18.0' HIGH

OWNER: HUNTINGTON BEACH CA.
CHEVRON USA INC.
PROPERTY TAX DEPT.
P.O. BOX 7643
SAN FRANCISCO, CA.
94120

LIMITS OF CO-GEN SITE

OIL & WATER LAB
18.0' HIGH

OIL STORAGE TANKS

CHEMICAL BUILDING
18.5' HIGH

600' RADIUS

600' RADIUS

STATE HIGHWAY

EDGE OF MAT

℄ CONSTRUCTION PACIFIC COAST HIGHWAY

EDGE OF MAT

STATE HIGHWAY

SCALE 1"=80'

OWNER: STATE OF CALIFORNIA
DEPT. OF ENVIRONMENTAL SERVICES
REAL ESTATE DIVISION
650 HOWE STREET
SUITE C
SAC, CAL. 95825

VICINITY MAP

PROJECT SITE

LEASE ROAD

LEASE ROAD

PACIFIC COAST HIGHWAY

ASPHALT AT GRADE/FIRST BLDG.

0 100 200 300
SCALE IN FEET

600' RADIUS

RELEASED BY			
PROJECT MGR.			
ENGR.			
DRAFT.			
CHKD.			
APPD.			
DATE	REV.	REVISIONS	BY

RELEASED ONLY FOR:

	INITIAL LEASE PLAN	FINAL AS-BUILT	DATE
ENGINEERING			
PRELIMINARY			
FINANCIAL			
BIDDING			
NEGOTIATION			
CONSTRUCTION			

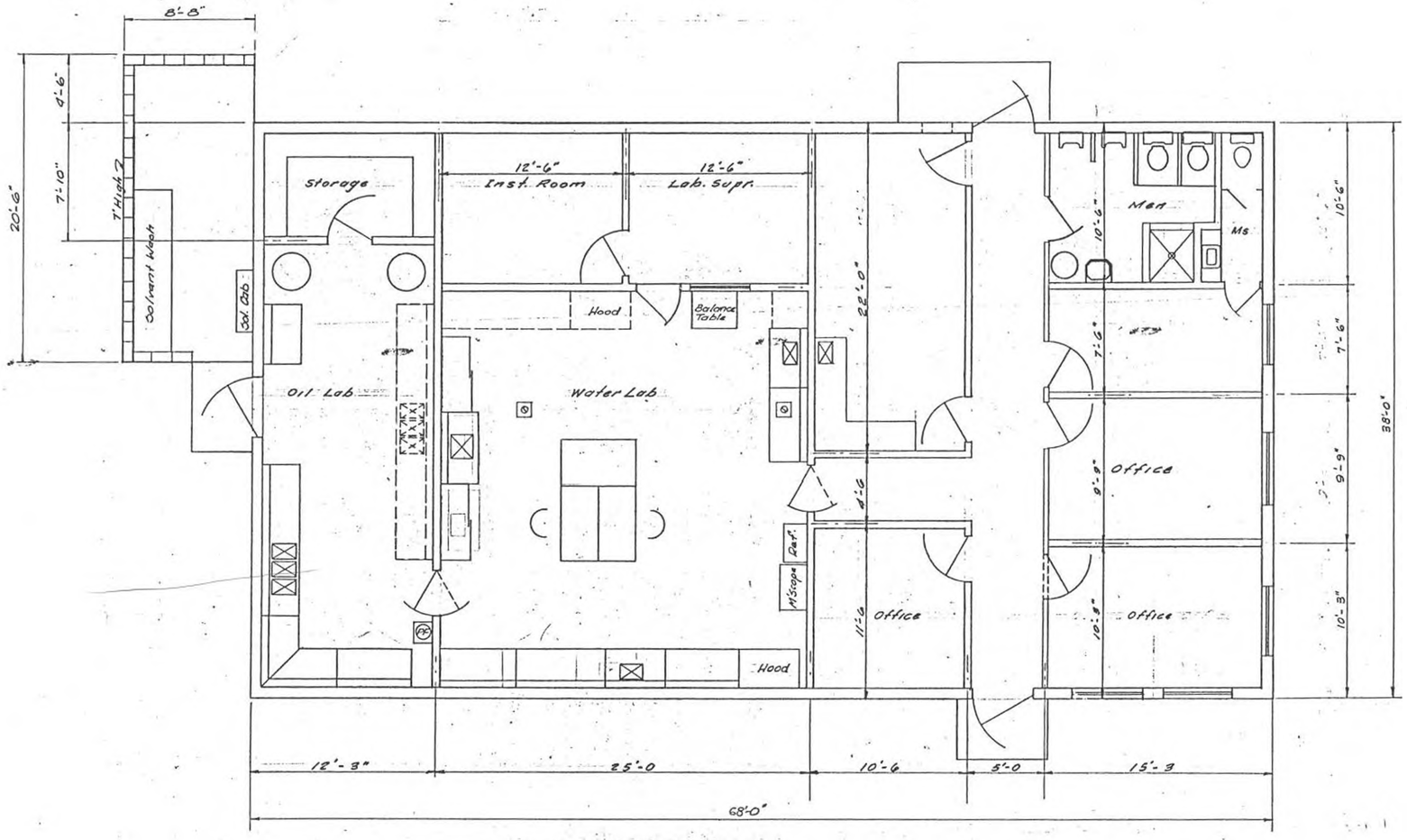
Shell Western E&P Inc. - California

LEASE 392 AND 426
CO-GEN PLOT PLAN FOR
ATC APPLICATION

HUNTINGTON BEACH FIELD-ORANGE CO. CA.

DRAWING No. 078-87-011D

58-C-1



REVISION		
DATE	BY	

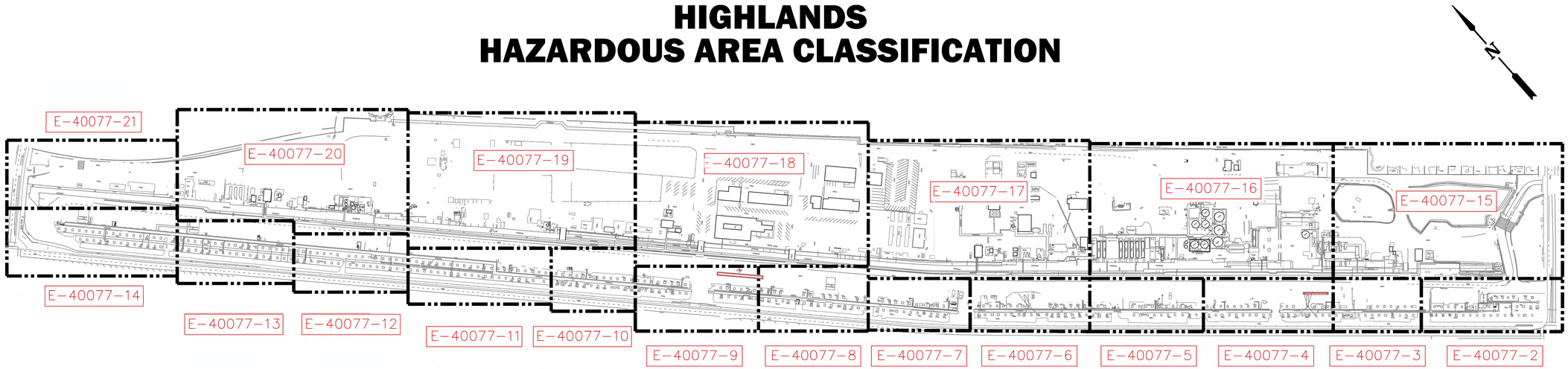
AMINOIL USA

LABORATORY BUILDING
FLOOR PLAN
HUNTINGTON BEACH CALIFORNIA

DR.	DEPT.	DWG. NO. D-1027
TR.	SCALE 1/4" = 1'	
APPR.	DATE	SHEETS - SHEET 7A

Shell Calif. Prod. Inc.
Dwg. No. OTB-LAG-2013-1-BY

SO CAL - HUNTINGTON BEACH
HIGHLANDS
HAZARDOUS AREA CLASSIFICATION



DRAWING INDEX

DWG. NO.	DRAWING TITLE
E-40077-1	KEY PLAN & DRAWING INDEX
E-40077-2	AREA CLASSIFICATION ENLARGED PLAN – MAT 22A & 22
E-40077-3	AREA CLASSIFICATION ENLARGED PLAN – MAT 1 & 2
E-40077-4	AREA CLASSIFICATION ENLARGED PLAN – MAT 2 & 3
E-40077-5	AREA CLASSIFICATION ENLARGED PLAN – MAT 4 & 5
E-40077-6	AREA CLASSIFICATION ENLARGED PLAN – MAT 5 & 6
E-40077-7	AREA CLASSIFICATION ENLARGED PLAN – MAT 7
E-40077-8	AREA CLASSIFICATION ENLARGED PLAN – MAT 8 & 9
E-40077-9	AREA CLASSIFICATION ENLARGED PLAN – MAT 9 & 10
E-40077-10	AREA CLASSIFICATION ENLARGED PLAN – MAT 10
E-40077-11	AREA CLASSIFICATION ENLARGED PLAN – MAT 11
E-40077-12	AREA CLASSIFICATION ENLARGED PLAN – MAT 11 & 12
E-40077-13	AREA CLASSIFICATION ENLARGED PLAN – MAT 12
E-40077-14	AREA CLASSIFICATION ENLARGED PLAN – MAT 12 & C-8
E-40077-15	AREA CLASSIFICATION ENLARGED PLAN – BLDG #1
E-40077-16	AREA CLASSIFICATION ENLARGED PLAN – TANK FARM
E-40077-17	AREA CLASSIFICATION ENLARGED PLAN – DCU & BLDG #2
E-40077-18	AREA CLASSIFICATION ENLARGED PLAN – BLDG #3
E-40077-19	AREA CLASSIFICATION ENLARGED PLAN – STORAGE AREA
E-40077-20	AREA CLASSIFICATION ENLARGED PLAN – STRETFORD UNIT & BLDG #4
E-40077-21	AREA CLASSIFICATION ENLARGED PLAN – WEST END

1"=200' 200' 0' 200' 400'

ISSUED FOR RECORD
3/09/20

BLOCK REV 0

PROJECT DRAWING NO.: E-40076

Document Approval

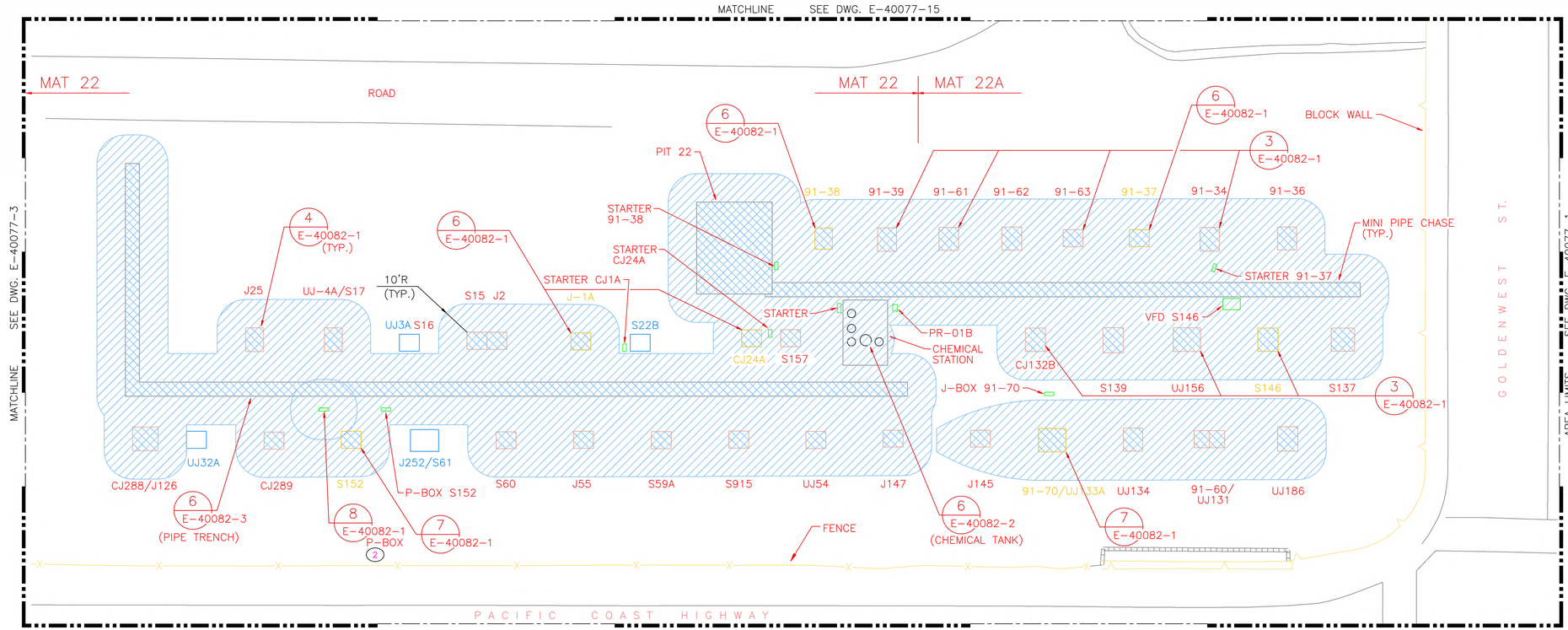
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Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH
HAZARDOUS AREA CLASSIFICATION
KEY PLAN AND DRAWING INDEX

SCALE: 1"=200"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 1
DATE:09/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 1 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.
2. CONDUIT FROM WELL TO THIS P-BOX HAS NOT BEEN SEALED DETAIL 8 ON THE DRAWING E-40082-1 APPLIES.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
5/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

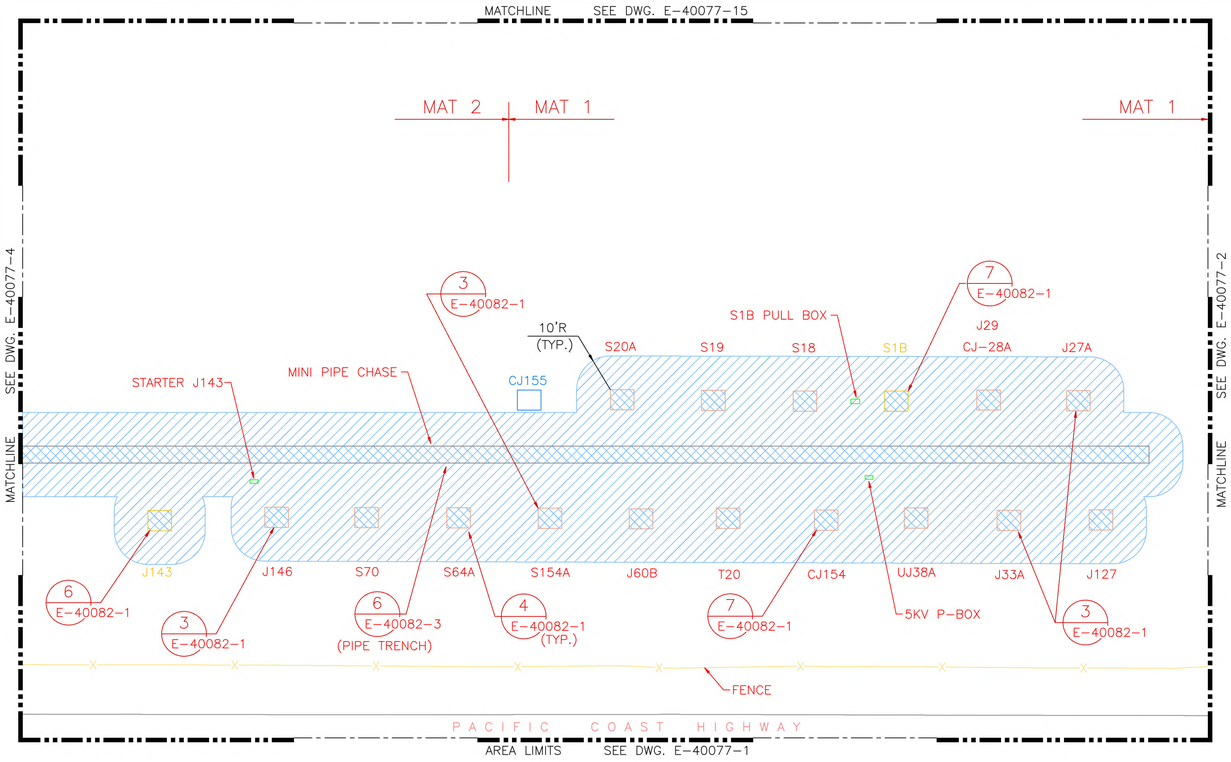
REVISIONS

REV	DESCRIPTION	DATE	BY	CKD	APR
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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 22A & 22

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 2 OF 21 SHEETS	



N

NOTES:

(1) AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
5/1/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

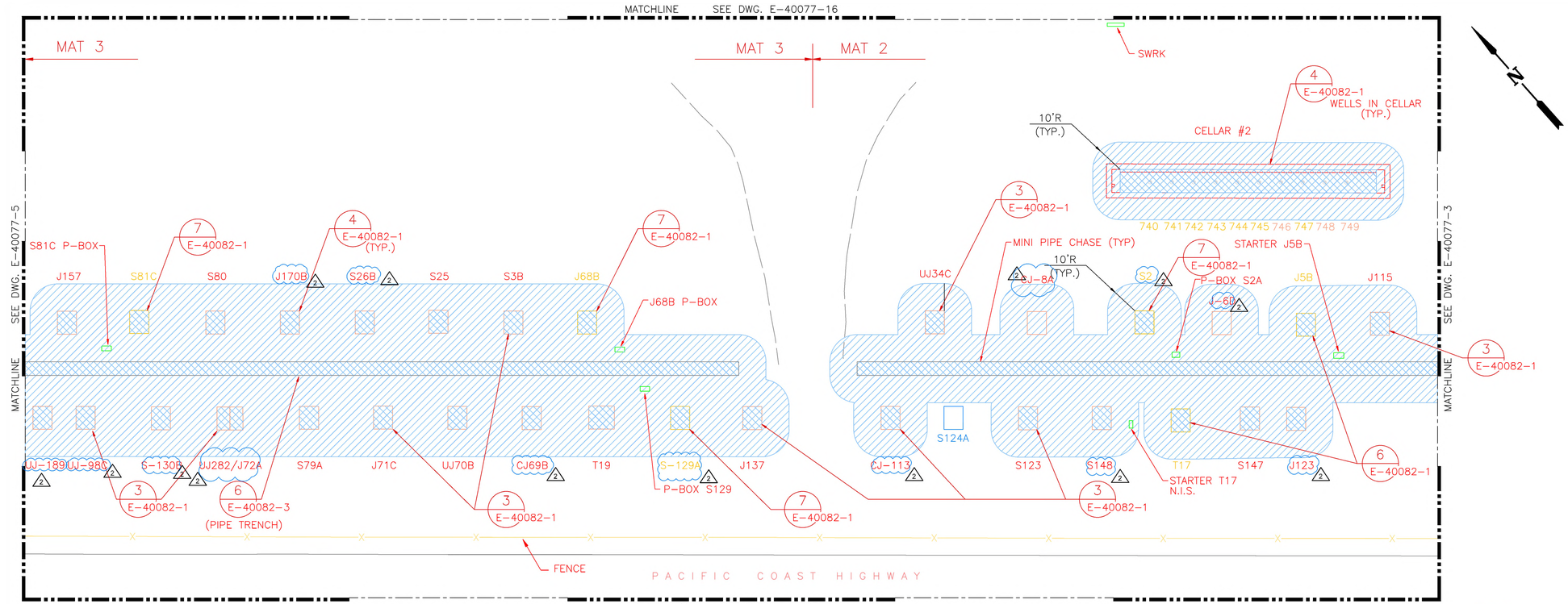
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Automation:		
Other (specify)		

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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT1 & 2

SCALE: 1"=20'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 3 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

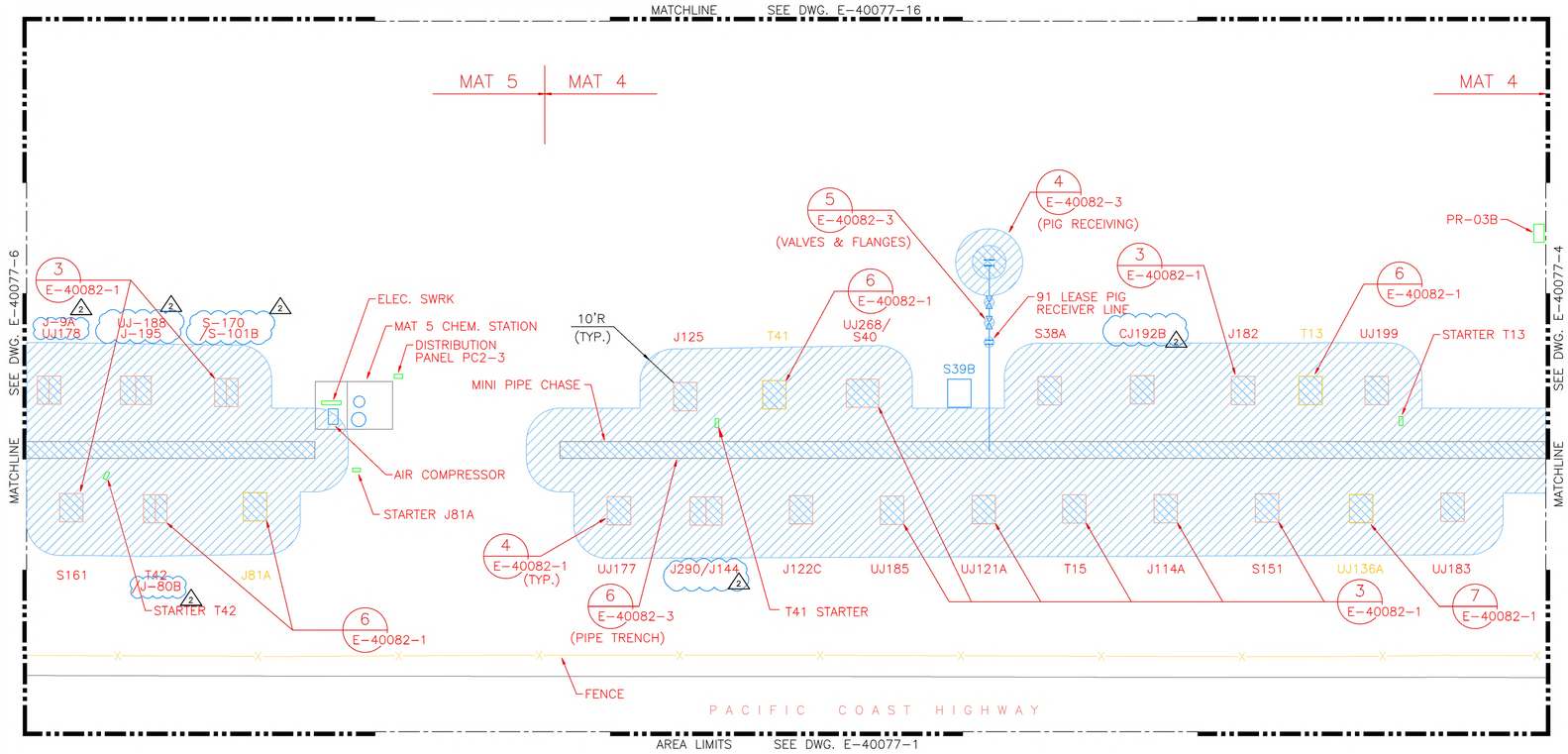
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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UDPATED TO CSLC AUDIT	05/01/21	JT	JJ	AP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 2 & 3

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 4 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

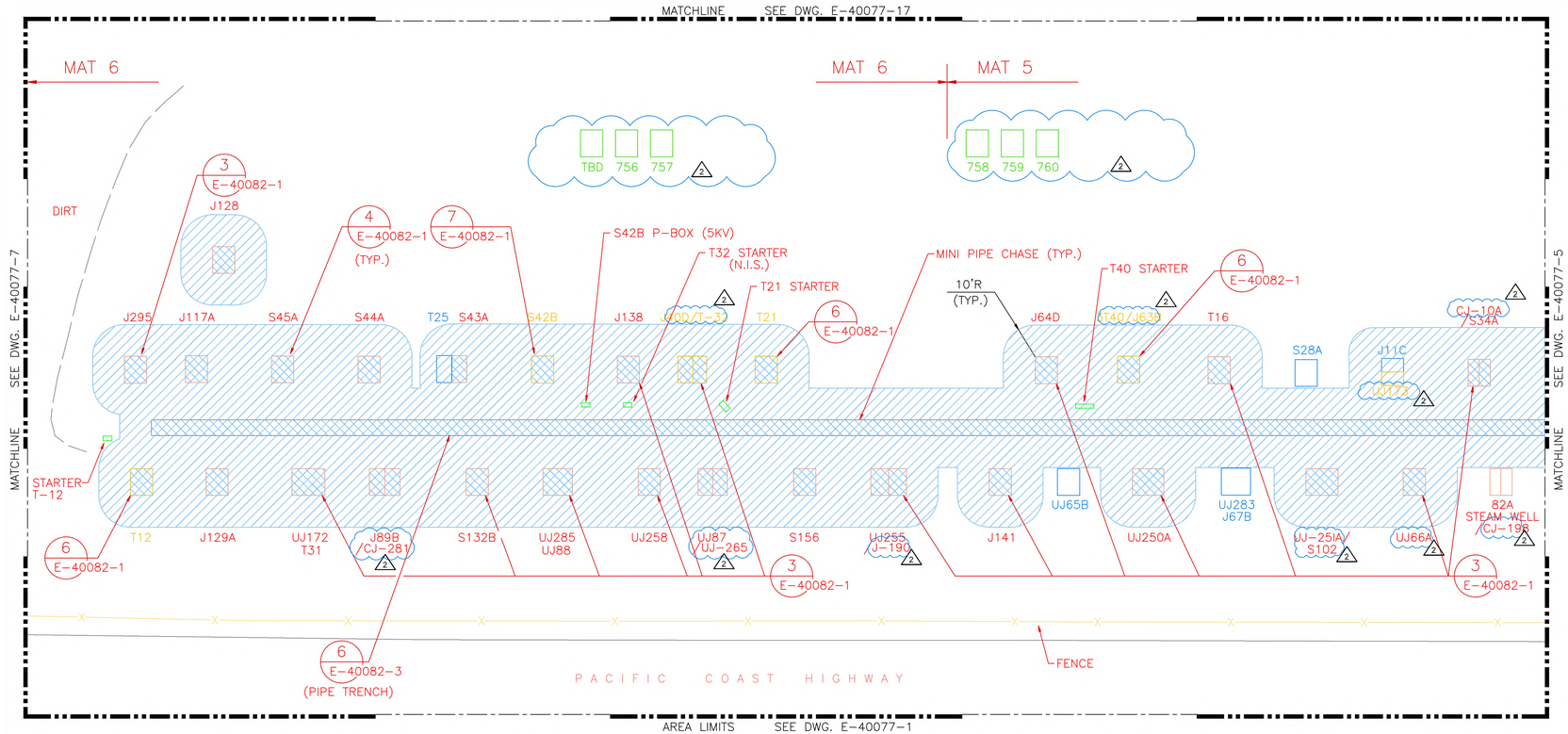
REVISIONS

REV	DESCRIPTION	DATE	BY	CKD	APR
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2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	AP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 4 & 5

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 5 OF 21 SHEETS	



NOTES:

(1) AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- NEW UNDRILLED WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

Operations:	Print Name	Signature
Facilities Engineering:	Print Name	Signature
Electrical:	Print Name	Signature
Automation:	Print Name	Signature
Other (specify)	Print Name	Signature

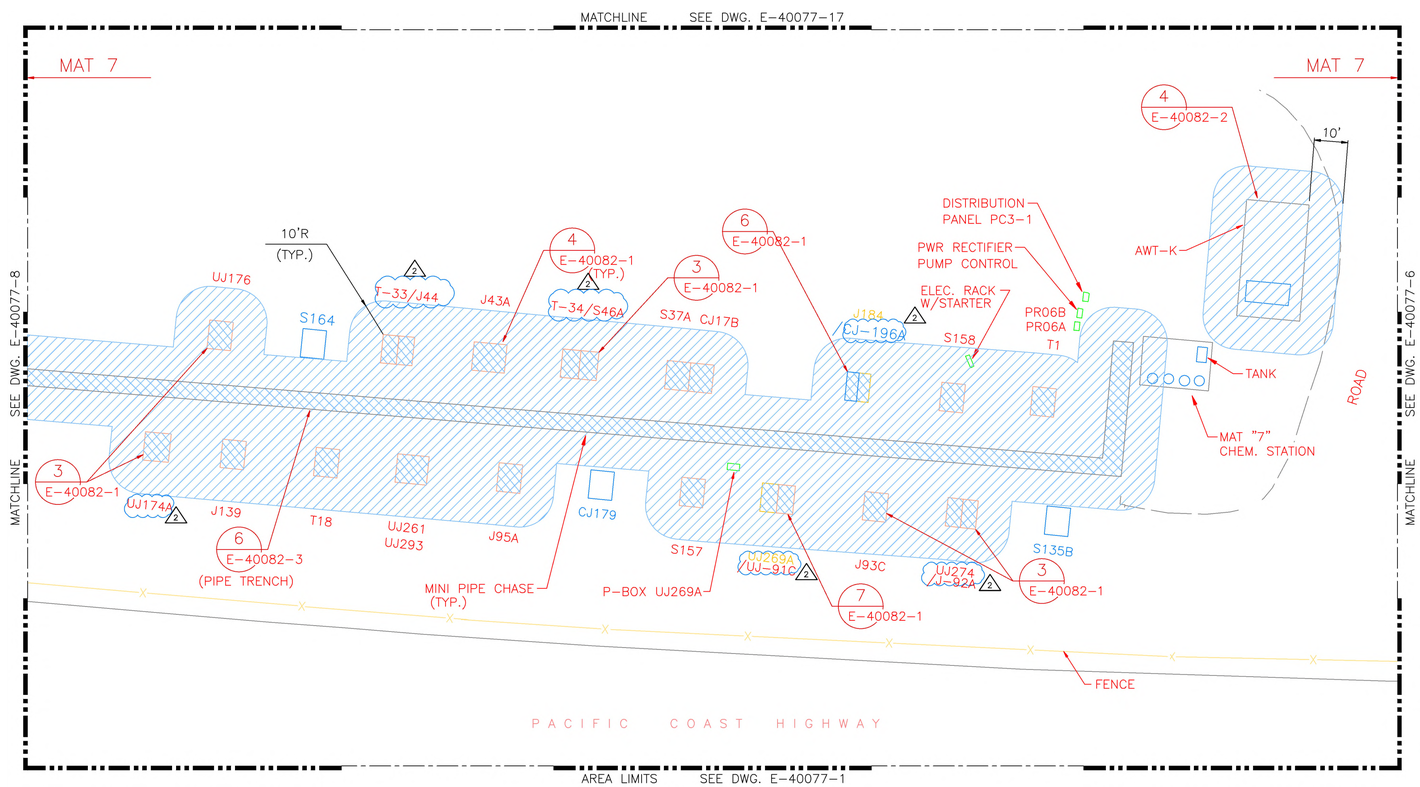
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2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 5 & 6

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/26/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 6 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

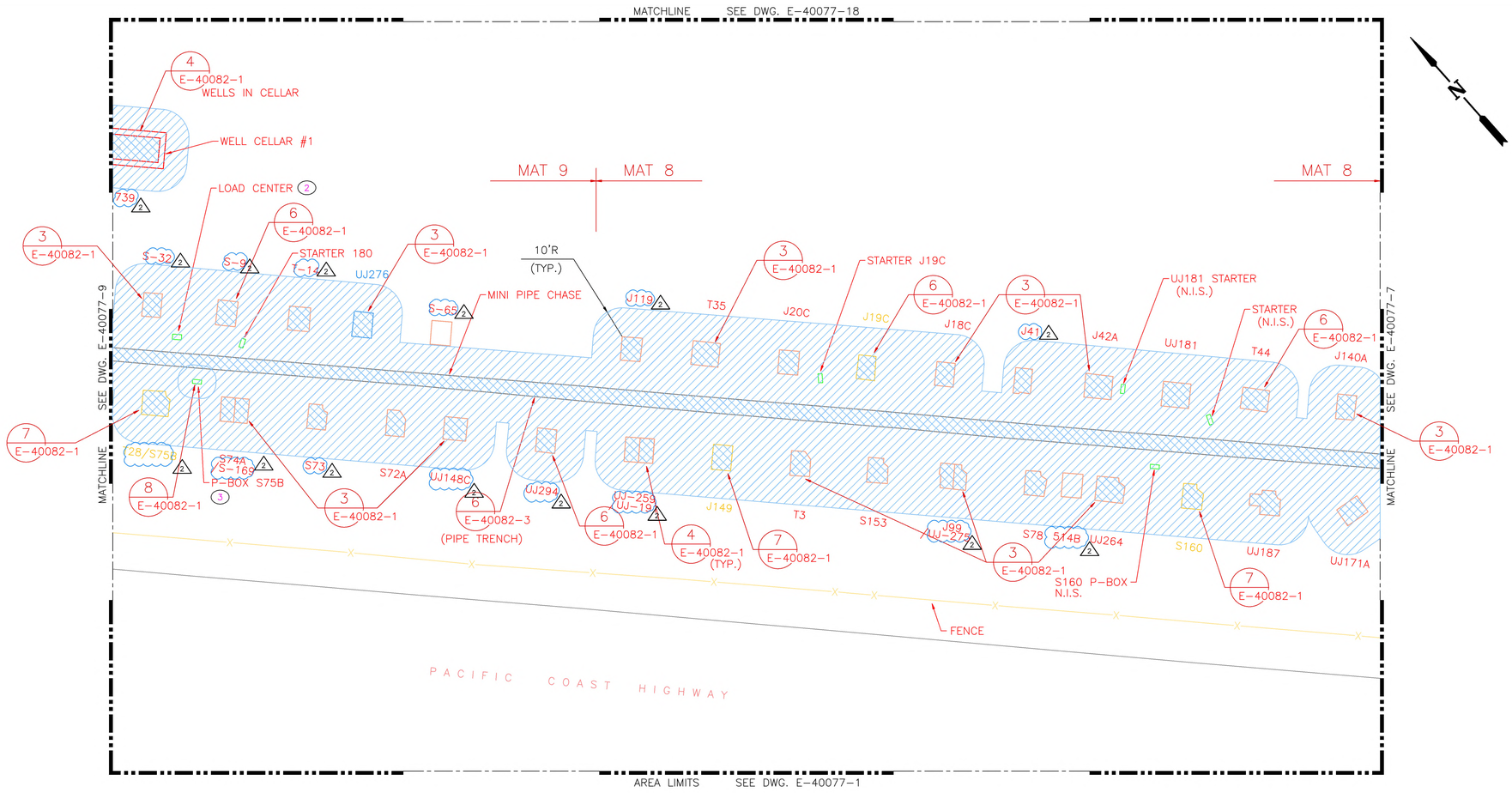
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Electrical:		
Automation:		
Other (specify)		

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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 7

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:09/26/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 7 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.
2. THE ENCLOSURES ARE NOT CLASSIFIED FOR THE HAZARDOUS AREA, AS SUCH THE INSTALLATIONS ARE DEEMED TO BE IN VIOLATION OF THE NEC.
3. CONDUIT FROM WELL TO THIS P-BOX HAS NOT BEEN SEALED, DETAIL 8 ON THE DRAWING E-40082-1 APPLIES.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICES

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

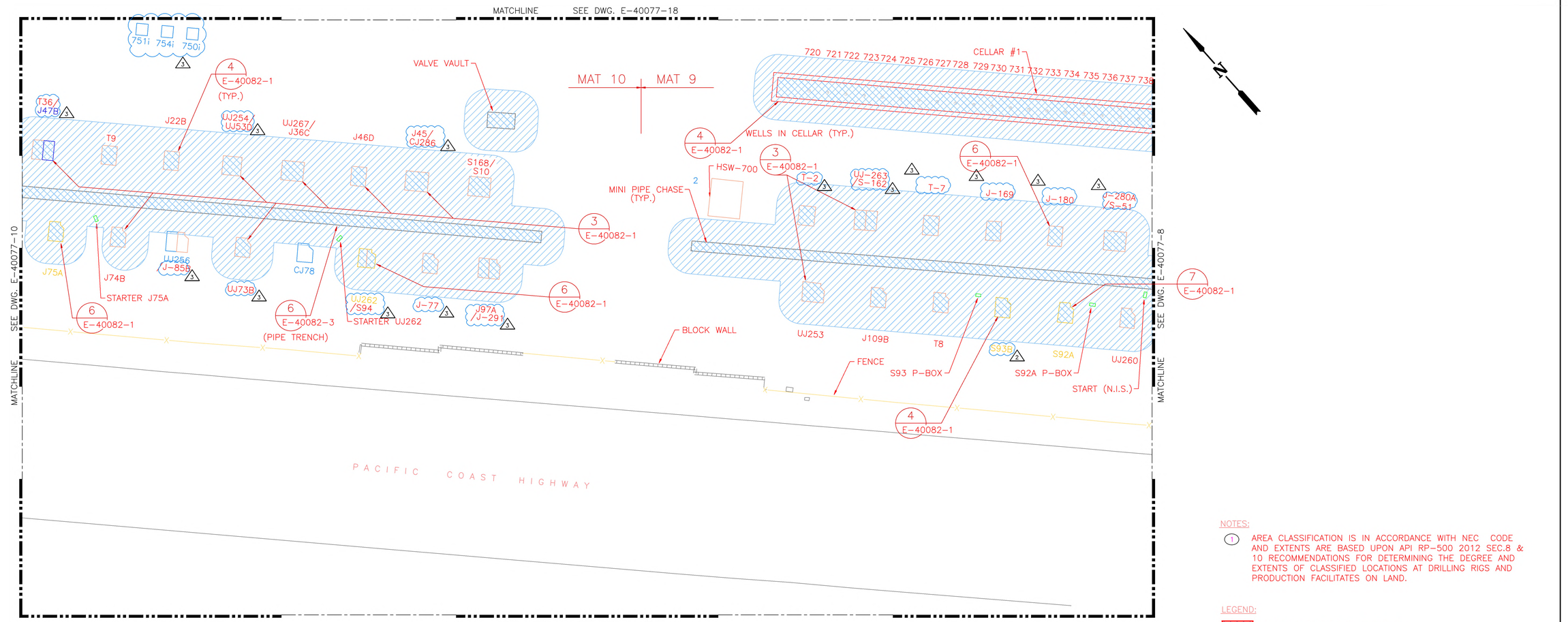
REVISIONS

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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UDPATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 8 & 9

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:10/24/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 8 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

Operations:	Print Name	Signature
Facilities Engineering:	Print Name	Signature
Electrical:	Print Name	Signature
Automation:	Print Name	Signature
Other (specify)	Print Name	Signature

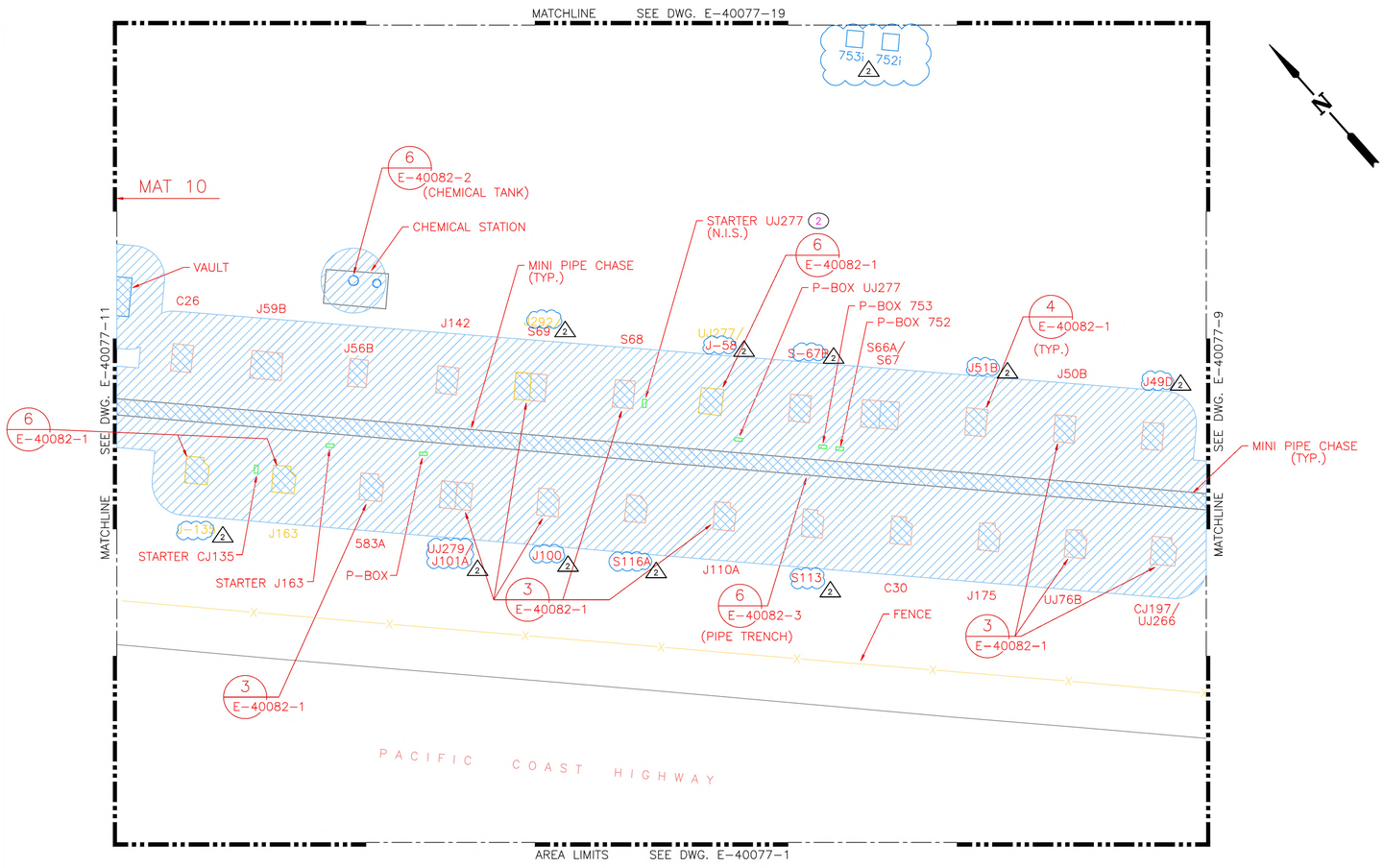
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3	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 9 & 10

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 3
DATE:10/24/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 9 OF 21 SHEETS	



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.
2. THE ENCLOSURES ARE NOT CLASSIFIED FOR THE HAZARDOUS AREA, AS SUCH THE INSTALLATIONS ARE DEEMED TO BE IN VIOLATION OF THE NEC.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

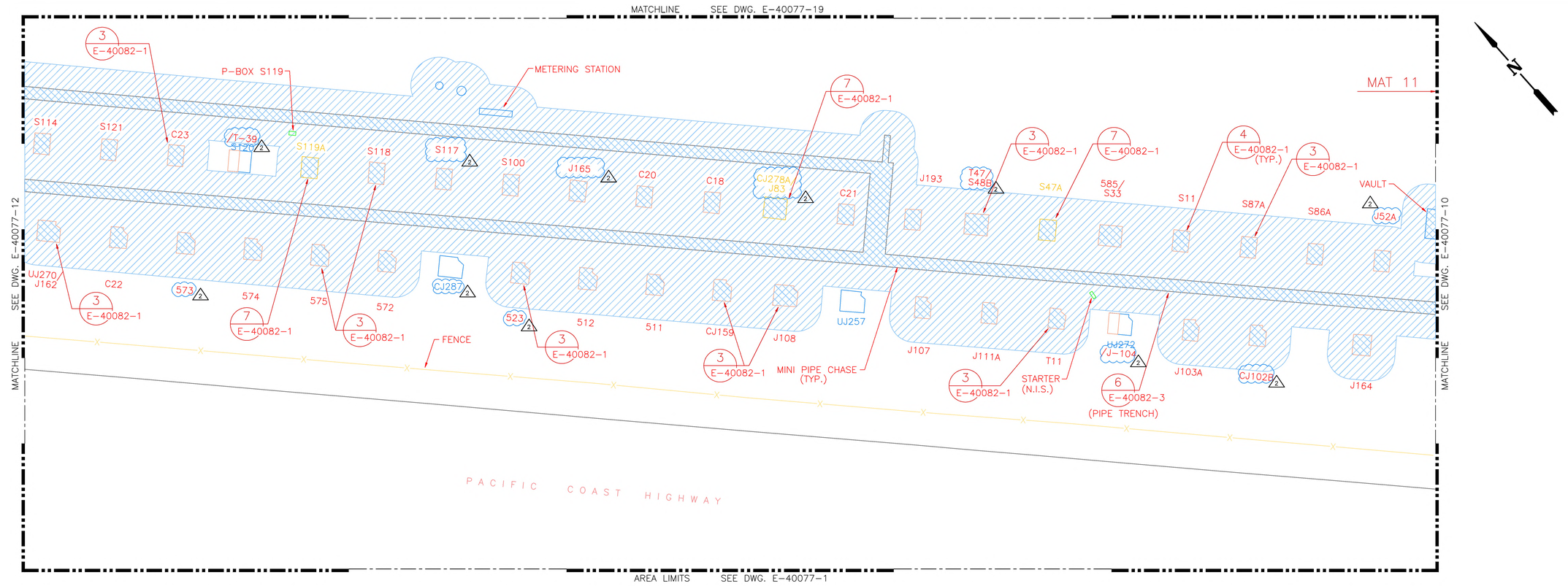
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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 10

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:10/27/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 10 OF 21 SHEETS	



AREA LIMITS SEE DWG. E-40077-1

NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL
- N.I.S. NOT IN SERVICE

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REVISIONS

REV	DESCRIPTION	DATE	BY	CKD	APR
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2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

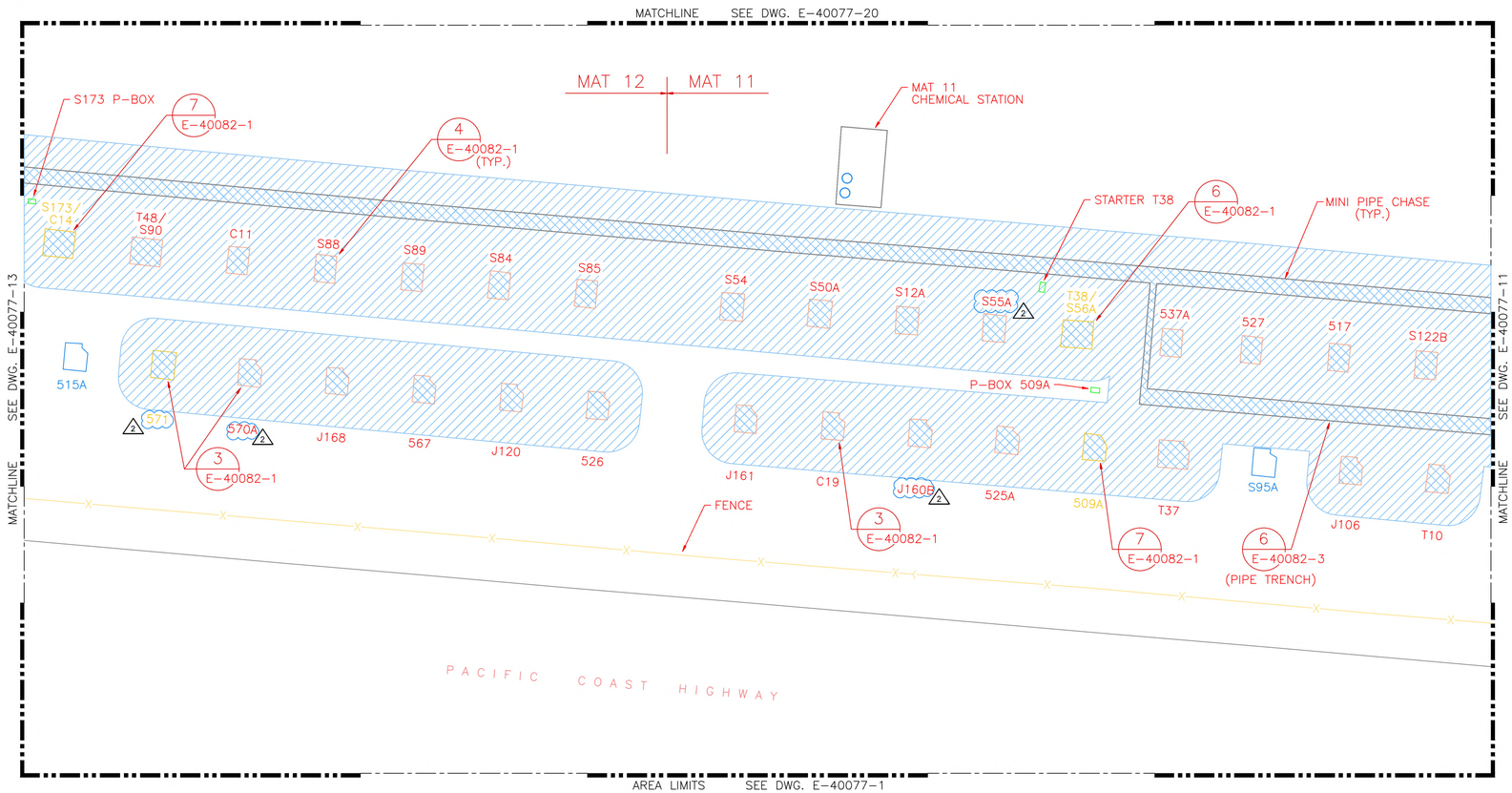
CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 11

SCALE: 1"=20"	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE: 10/27/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 11 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REV	DESCRIPTION	DATE	BY	CKD	APR
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1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

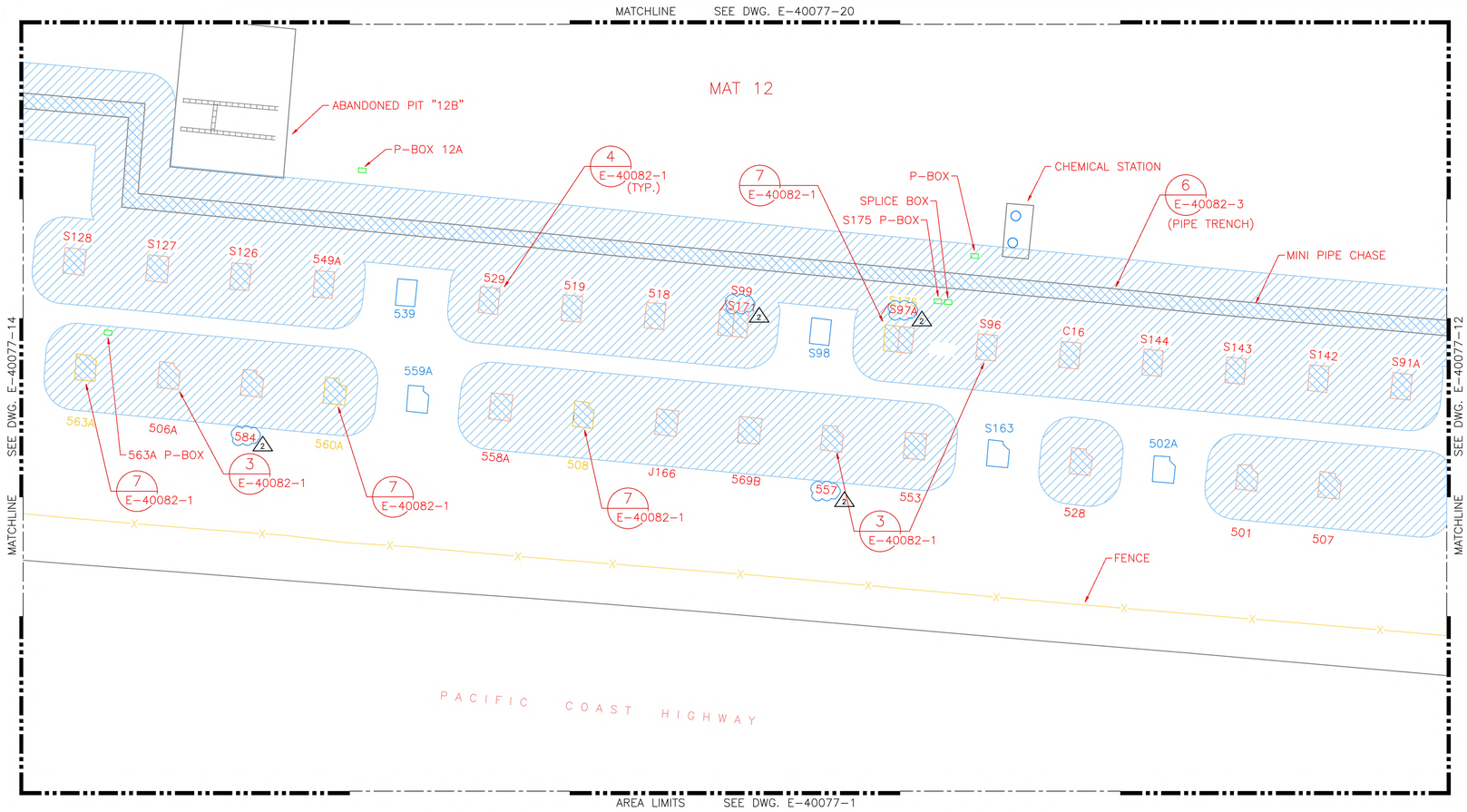
CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 11 & 12

SCALE: 1"=20'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE: 10/28/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 12 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

(1) AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

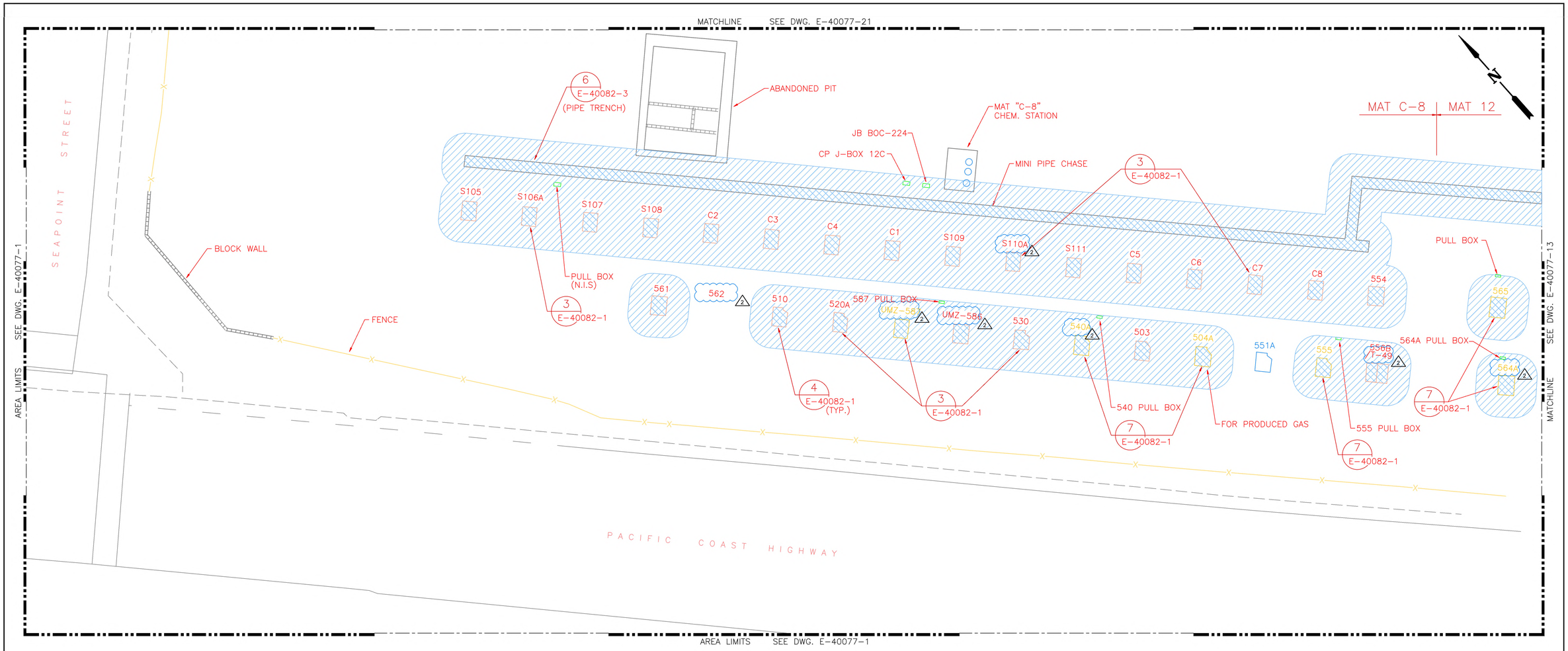
REVISIONS

REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 12

SCALE: 1"=20'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:10/28/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 13 OF 21 SHEETS	



LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- ACTIVE WELL
- ABANDONED WELL
- WATER WELL

NOTES:

(1) AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
05/01/21

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
2	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

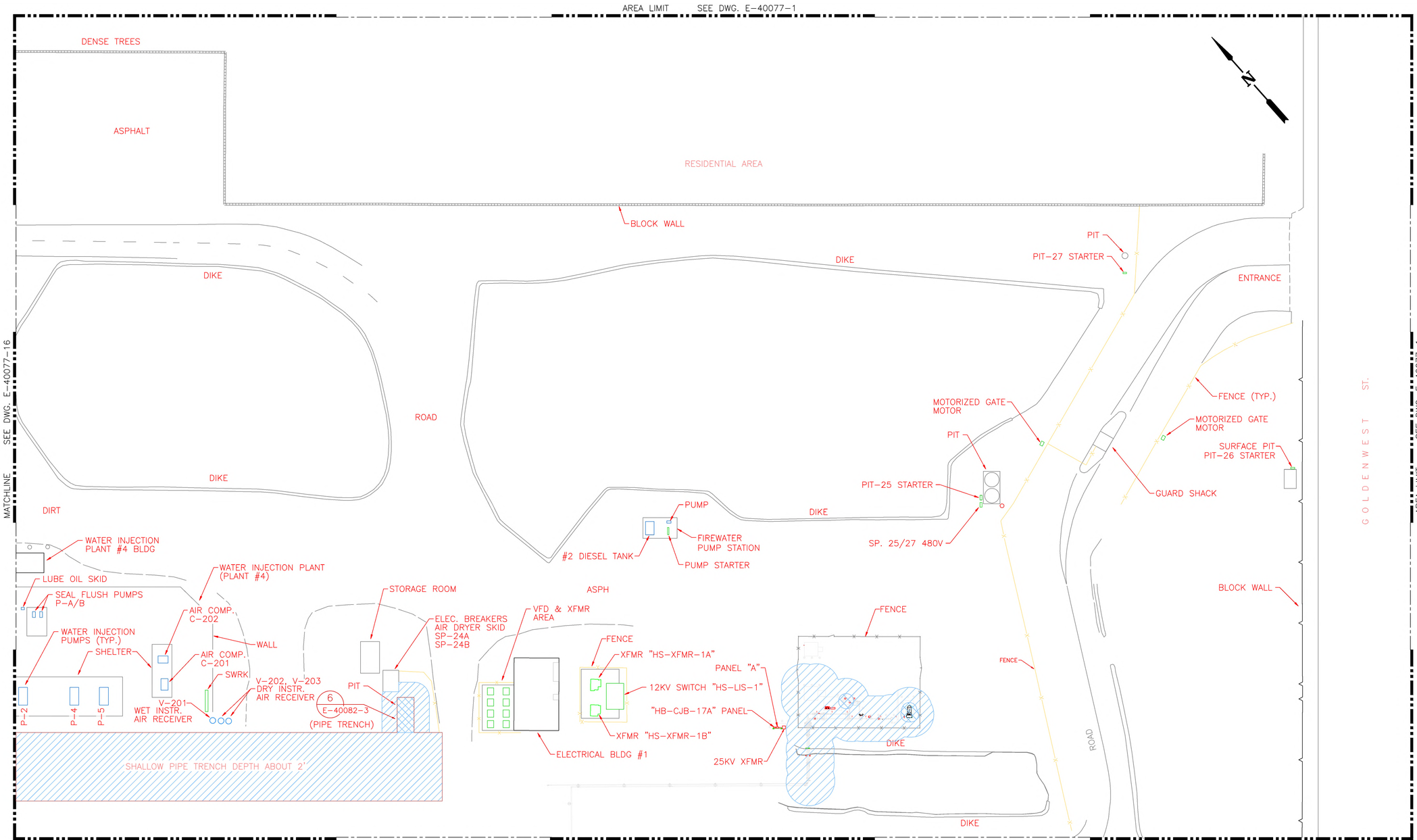
CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - MAT 12 & C-8

SCALE: 1"=20'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE: 10/28/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 14 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

THESE AS-BUILT DRAWINGS WERE PREPARED BASED ON INFORMATION PROVIDED BY OTHERS WITH NO FIELD VERIFICATION BY SPEC SERVICES, INC.

ISSUED FOR RECORD
4/22/21

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	AS-BUILT PER CRC #2002191	1/31/19	EV	AF	AF
2	UPDATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
3	Vessel Names for HB Instrument Air Receivers	4/22/21	JJ	JJ	SH

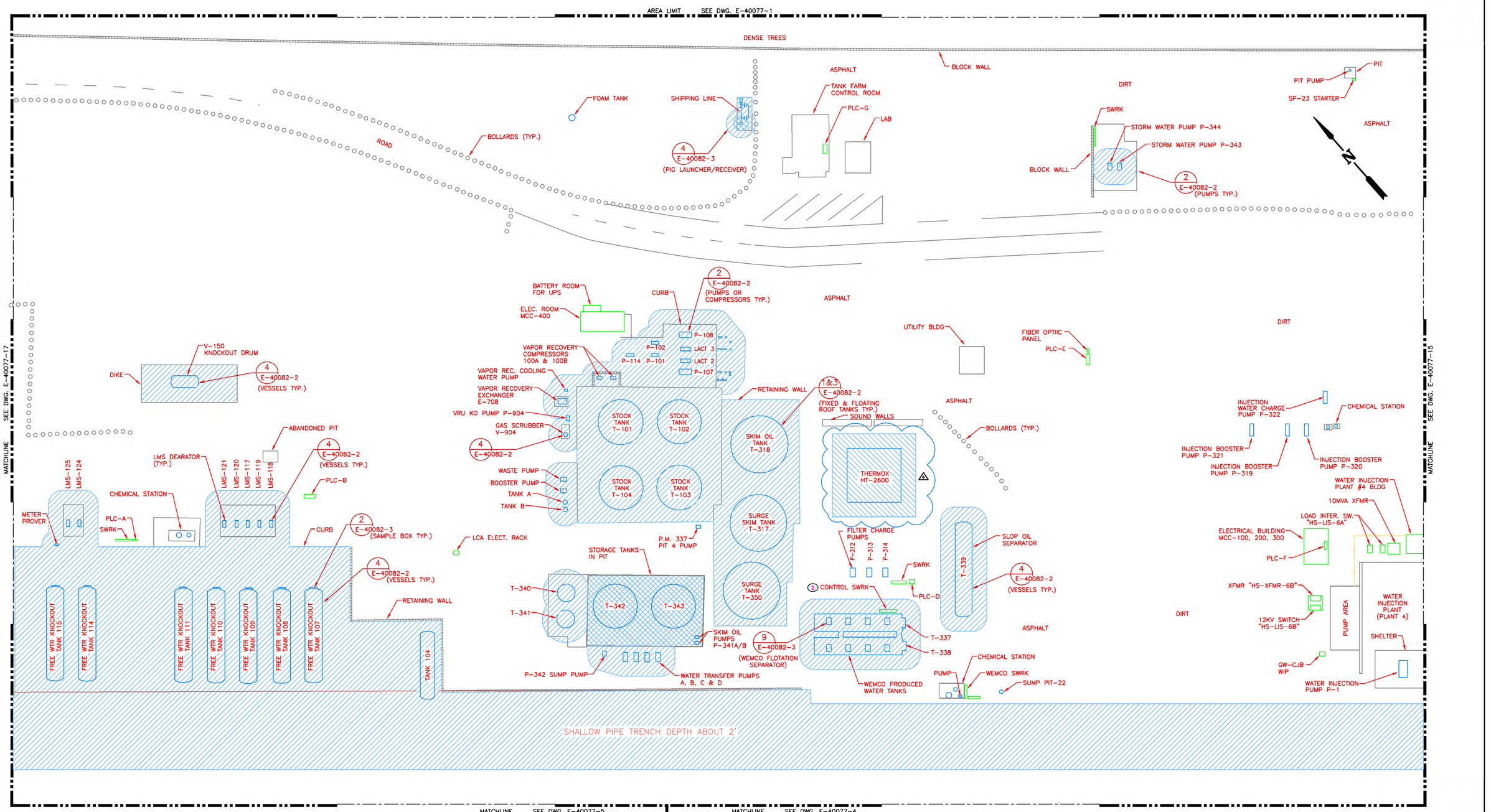
CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - BLDG #1

SCALE: 1"=30'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 3
DATE:9/22/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 15 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.
2. THE SWITCHRACK OR STARTER ENCLOSURES ARE NOT CLASSIFIED FOR THE HAZARD AREA AS SUCH INSTALLATION IS DEEMED TO BE IN VIOLATION OF THE NEC.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

1"=30' 30' 0' 30' 60'

ISSUED FOR RECORD
3/14/24

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
6	HB TRUCK THERMOX FUEL FLOW CV UPGRADE	3/14/24	JNE	NS	SH
1	UDPATED PER WATER CHARGE PUMP	01/12/17	KA	MN	MN
2	AS-BUILT PER CRC #2005850	8/22/19	JJ	EA	SD
3	AS-BUILT PER M2019132-001 HB THERMOX	2/03/20	JJ	SH	SH
4	UPDATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
5	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

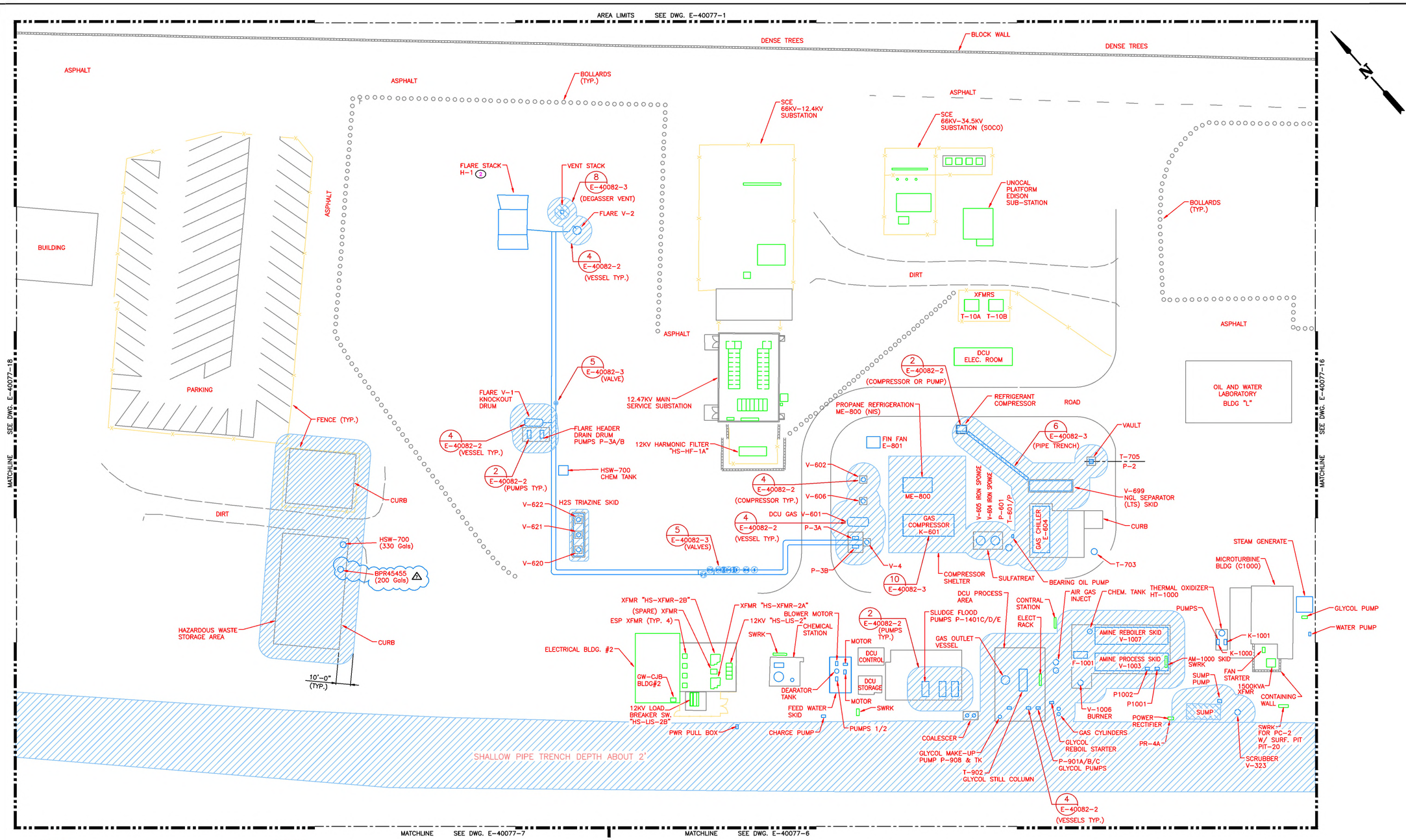
CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - TANK FARM

SCALE: 1"=30'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 6
DATE:09/23/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 16 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.
2. FLARE STACK IS NOT CLASSIFIED FOR HAZARDOUS LOCATION AS STIPULATED IN API RP-500 SECTION 6.2.4.3.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA
- N.I.S. NOT IN SERVICE

ISSUED FOR RECORD
11/14/23

Document Approval

	Print Name	Signature
Operations:		
Facilities Engineering:		
Electrical:		
Automation:		
Other (specify)		

REVISIONS

REV	DESCRIPTION	DATE	BY	CKD	APR
6	UPDATED PER PROCESS ENGINEERING	1/18/22	PR	JJ	SH
7	UPDATED PER PROCESS ENGINEERING	11/14/23	NS	JJ	SH
2	AS-BUILT PER CRC #2005850	8/22/19	JJ	EA	SD
3	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
4	V-611 UPDATE TO V-699	11/3/20	JT	JJ	JJ
5	UPDATED PER CSLC AUDIT	05/01/21	JT	JJ	DP

CALIFORNIA RESOURCES CORPORATION

HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - DCU & BLDG #2

SCALE: 1"=30'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 7
DATE: 10/01/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 17 OF 21 SHEETS	

PROJECT DRAWING NO.: E-40077-17

BLOCK REV 0

AREA LIMITS SEE DWG. E-40077-1

N

BLOCK WALL

ASPHALT

STORAGE AREA

STORAGE AREA

ASPHALT

BUILDING

ASPHALT

BUILDING

ASPHALT

BUILDING

BUILDING

BUILDING

ASPHALT

BUILDING

MATCHLINE SEE DWG. E-40077-19

MATCHLINE SEE DWG. E-40077-17

HARMONIC FILTER "HS-HF-3C1"

12KV SWITCH "HS-LIS-3"

HARMONIC FILTER "HS-HF-3D1"

FENCE

MCC BLDG "3A"

XFMR "HS-XFMR-3B"

XFMR "HS-XFMR-3A"

XFMR "HS-XFMR-3D"

XFMR "HS-XFMR-3C"

VFD/XFMR CANOPY

ELECTRICAL BLDG #3

BUILDING

CEB FLARE SKID #B

CEB FLARE SKID #A

V-61 CEB KO VESSEL

ASPHALT

GW-CJB DARPA

SHALLOW PIPE TRENCH DEPTH ABOUT 2'

ELEC. SWRK

MATCHLINE SEE DWG. E-40077-9

MATCHLINE SEE DWG. E-40077-8

1"=30' 30' 0' 30' 60'

ISSUED FOR RECORD
5/1/21

NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	AS BUILT - #2004010-00857702016-010102	3/23/18	EP	EP	DH
2	AS-BUILT PER CRC #2005850	8/22/19	JJ	EA	SD
3	AS-BUILT PER M2019130-001	11/20/19	JJ	CC	CC
4	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ
5	CSLC AUDIT UPDATES	5/1/21	JJ	JM	DP

CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - DCU & BLDG #3

SCALE:NONE	DESIGNED BY: WW	CHECKED BY: JR	DRAWING NO. E-40077	REV. 5
DATE:10/28/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 18 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

AREA LIMITS SEE DWG. E-40077-1

BLOCK WALL

N

FENCE (TYP.)

STORAGE AREA

STORAGE AREA

STORAGE AREA

MATCHLINE SEE DWG. E-40077-20

MATCHLINE SEE DWG. E-40077-18

MUD PLANT MCC BLDG.

TRUCK TRAFFIC

MUD PLANT MCC BLDG

"HS-MCC-20A"

CHEM. STATION

SWRK

ABANDONED PIT

SWRK

"HS-MCC-20A"

XFMR "HS-XFMR-20A"

XFMR "HS-XFMR-20A"

LAUNCHING & RECEIVING AREA

SHALLOW PIPE TRENCH DEPTH ABOUT 2'

V-32 NATURAL GAS EMMY L.P. SCRUBBER

V-15 NATURAL GAS EMMY H.P. SCRUBBER

12kV SWITCH "HS-LIS-5"

PULL BOX (OLD EMMY FDR)

LAUNCHING & RECEIVING

EMMY MUD PLANT PLC BLDG.

OIL GATHERING LINE

MATCHLINE SEE DWG. E-40077-11

MATCHLINE SEE DWG. E-40077-10

1"=30'

30' 0' 30' 60'

ISSUED FOR RECORD
3/09/20

NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

THESE AS-BUILT DRAWINGS WERE PREPARED BASED ON INFORMATION PROVIDED BY OTHERS WITH NO FIELD VERIFICATION BY SPEC SERVICES, INC.

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	AS-BUILT PER CRC#2002589-HB ESD INSTALLATION	2/1/18	EP	EP	JR
2	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ

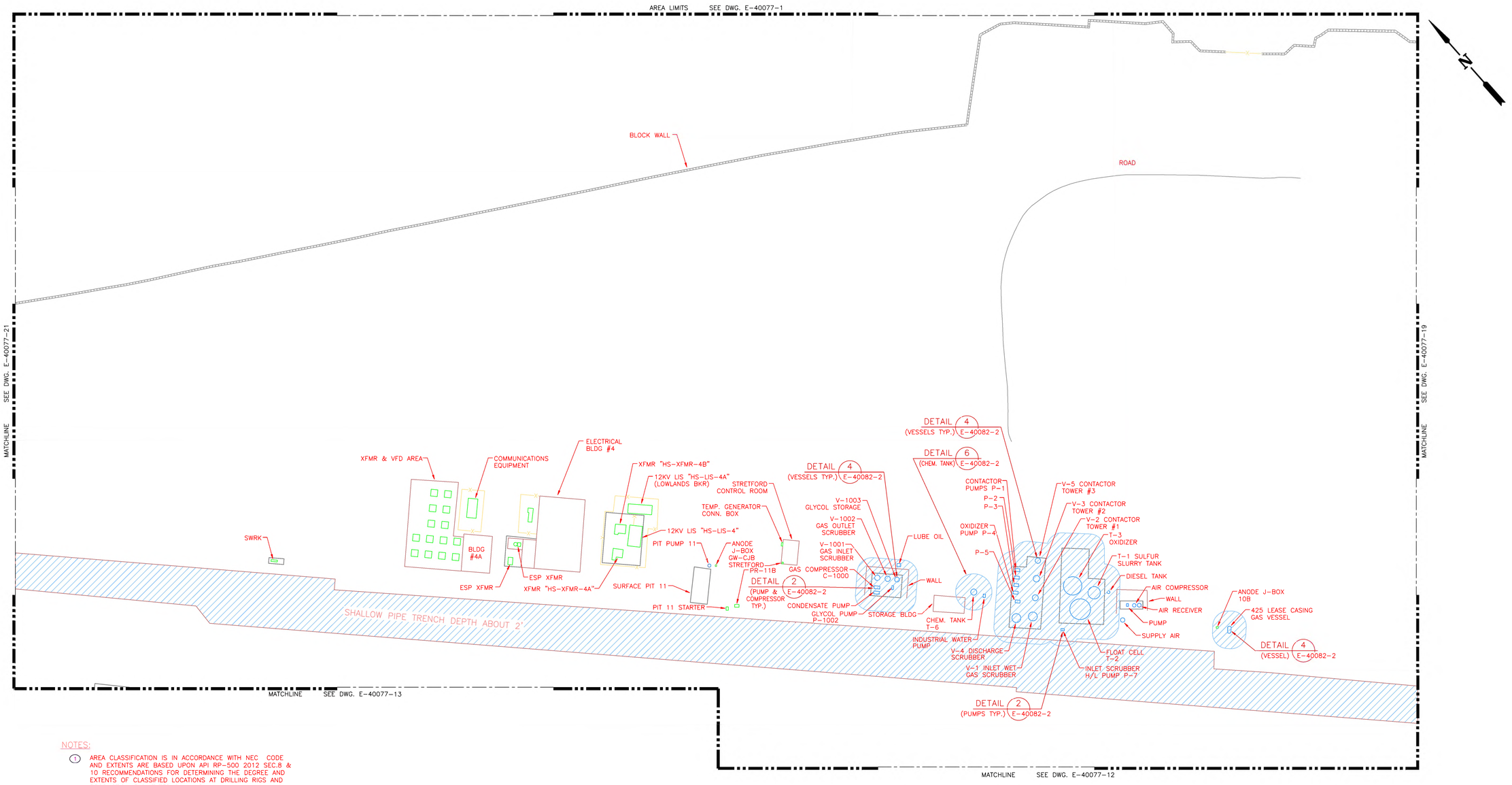
CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - STORAGE AREA

SCALE:1"=30'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:10/29/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 19 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077



NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

1"=30' 30' 0' 30' 60'

ISSUED FOR RECORD
3/09/20

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	AS-BUILT PER CRC#2005850	8/22/19	JJ	EA	SD
2	UPDATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ

CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - STRETFORD UNIT & BLDG #4

SCALE:1"=30'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 2
DATE:10/29/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 20 OF 21 SHEETS	

PROJECT DRAWING NO.: E-40077

BLOCK REV 0

AREA LIMITS SEE DWG. E-40077-1

AREA LIMITS SEE DWG. E-40077-1

MATCHLINE SEE DWG: E-40077-20

SEAPOINT STREET

BLOCK WALL

FENCE

ASPHALT

STARTER (2)

SURFACE PIT 9

GAS PLANT DRAIN

DETAIL 11 (VALVES TYP.) E-40082-3

WET GAS

NB PRODUCTION LINE

426 LEASE PRODUCTION

SALES GAS

WET GAS

392 PRODUCTION LINE

SHALLOW PIPE TRENCH DEPTH ABOUT 2'

SWRK

MATCHLINE SEE DWG. E-40077-14

N

NOTES:

1. AREA CLASSIFICATION IS IN ACCORDANCE WITH NEC CODE AND EXTENTS ARE BASED UPON API RP-500 2012 SEC.8 & 10 RECOMMENDATIONS FOR DETERMINING THE DEGREE AND EXTENTS OF CLASSIFIED LOCATIONS AT DRILLING RIGS AND PRODUCTION FACILITATES ON LAND.

2. THE ENCLOSURES ARE NOT CLASSIFIED FOR THE HAZARDOUS AREA, AS SUCH THE INSTALLATIONS ARE DEEMED TO BE IN VIOLATION OF THE NEC.

LEGEND:

- CLASS 1 DIVISION 1, GROUP D
- CLASS 1 DIVISION 2, GROUP D
- UNCLASSIFIED AREA

1"=20' 20' 0' 20' 40'

ISSUED FOR RECORD
3/09/20

REVISIONS					
REV	DESCRIPTION	DATE	BY	CKD	APR
0	ISSUED FOR RECORD	1/16/15	WW	RC	DH
1	UDPATED TO CRC TITLE BLOCK	3/09/20	JT	JJ	JJ

CALIFORNIA RESOURCES CORPORATION

LA BASIN
HUNTINGTON BEACH HIGHLANDS
HAZARDOUS AREA CLASSIFICATION
ENLARGED PLAN - WEST END

SCALE: 1"-20'	DESIGNED BY: WW	CHECKED BY: RC	DRAWING NO. E-40077	REV. 1
DATE: 10/28/14	DRAWN BY: WW	APPROVED BY: DH	SHEET 21 OF 21 SHEETS	

BLOCK REV 0

PROJECT DRAWING NO.: E-40077

Huntington Beach/Platform Emmy (CERSID: 10446451)

Facility Information **Submitted Feb 27, 2017**

Submitted on 2/27/2017 4:01:41 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Submitted Feb 27, 2017**

Submitted on 2/27/2017 4:01:41 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Hazardous Material Inventory (66)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 154KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 526KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 89KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 94KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 100KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 506KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 271KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 661KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 216KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 222KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 396KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 370KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 332KB)

Emergency Response and Training Plans **Submitted Feb 27, 2017**

Submitted on 2/27/2017 4:01:41 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 668KB)
- Employee Training Plan
  - *Employee Training Plan* (Adobe PDF, 383KB)

California Environmental Reporting System (CERS) — Business Activities

Site Identification

Huntington Beach/Platform Emmy
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10446451
EPA ID Number
CAD981443807

Submittal Status

Submitted on 2/27/2017 by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**Yes**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	**No**
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

Huntington Beach/Platform Emmy
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10446451

Submittal Status

Submitted on 2/27/2017 by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

Identification

Joe Martinez

Operator Phone	Business Phone	Business Fax
(714) 969-3221	(562) 693-0781	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
	1311	

Facility/Site Mailing Address

111 W. OCEAN BLVD., SUITE 800
LONG BEACH, CA 90802

Primary Emergency Contact

Huntington Beach Tank Farm
Title
Huntington Beach Tank Farm

Business Phone	24-Hour Phone	Pager Number
(714) 969-3201	(562) 624-3452	

Owner

SoCal Holding, LLC
(562) 624-3400
111 W OCEAN BLVD, SUITE 800
LONG BEACH, CA 90802

Secondary Emergency Contact

Joe Martinez
Title
Facility OperationsSupervisor

Business Phone	24-Hour Phone	Pager Number
(714) 969-3221	(562) 693-0781	

Billing Contact

SoCal Holding, LLC
(562) 624-3400 Kristy.Monji@crc.com
111 W OCEAN BLVD., Suite 800
LONG BEACH, CA 90802

Environmental Contact

Kristy Monji
(562) 505-8657 Kristy.Monji@crc.com
111 W OCEAN BLVD., SUITE 800
LONG BEACH, CA 90802

Name of Signer	Signer Title	Document Preparer
Kristy Monji	Environmental Specialist	Denise Larderuccio

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees

Facility ID

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Acteylene	**Cu. Feet**	**1721**	**250**	1721						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 4	Type	Days on Site: 365		Temperature						
	Activated Carbon	**Pounds**	**12000**	**12000**	12000						
	CAS No	State: Solid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type	Days on Site: 365		Temperature						
	Carbon Dioxide	**Cu. Feet**	**1200**	**300**	1200						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 2	Type	Days on Site: 365		Temperature						
	CGO49	**Gallons**	**345**	**345**	345						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type	Days on Site: 365		Temperature						
	CLW3075	**Gallons**	**345**	**345**	345						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type	Days on Site: 365		Temperature						
	Coilguard	**Gallons**	**330**	**330**	330						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type	Days on Site: 365		Temperature						
	Corrtreat 7182	**Gallons**	**560**	**440**	560						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 9, 12	Type	Days on Site: 365		Temperature						
	Corrtreat 7219	**Gallons**	**115**	**115**	115						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 2	Type	Days on Site: 365		Temperature						

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	CRW3658	**Gallons**	**690**	**345**	690						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 2	Type			Temperature						
		Days on Site: 365									
	CRW3658	**Gallons**	**120**	**120**	120						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6	Type			Temperature						
		Days on Site: 365									
	CRW3658	**Gallons**	**120**	**120**	120						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 9	Type			Temperature						
		Days on Site: 365									
	CRW3658	**Gallons**	**840**	**120**	840						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 10	Type			Temperature						
		Days on Site: 365									
	CRW3658	**Gallons**	**1200**	**120**	1200						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 11	Type			Temperature						
		Days on Site: 365									
	CRW3658	**Gallons**	**200**	**200**	200						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 12	Type			Temperature						
		Days on Site: 365									
	Diesel	**Gallons**	**550**	**550**	550						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type			Temperature						
		Days on Site: 365									
	Diesel #2	**Gallons**	**100**	**100**	100						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	DMO8298U	**Gallons**	**110**	**110**	110						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	DMO8424	**Gallons**	**450**	**250**	450						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6, 8	Type			Temperature						
		Days on Site: 365									
	DMO8424	**Gallons**	**420**	**220**	420						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	DMO8424	**Gallons**	**710**	**250**	710						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 9, 11	Type			Temperature						
		Days on Site: 365									
	Engine Oil	**Gallons**	**440**	**440**	440						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Ethylene Glycol	**Gallons**	**110**	**110**	110						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Floctreat 7932A	**Gallons**	**525**	**525**	525						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									
	GT Antifoam	**Gallons**	**120**	**120**	120						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Helium	**Cu. Feet**	**1200**	**300**	1200						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	HSW700	**Gallons**	**490**	**370**	490						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6, 7	Type			Temperature						
		Days on Site: 365									
	Hydrocarbon Gases	**Cu. Feet**	**50**	**50**	50						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Lube 167	**Gallons**	**1000**	**1000**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									
	Lube Oil	**Gallons**	**100**	**100**	100						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 9	Type			Temperature						
		Days on Site: 365									
	Methane	**Cu. Feet**	**1200**	**300**	1200						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Mineral Oil	**Gallons**	**1000**	**1000**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									
	Nitrogen	**Cu. Feet**	**1504**	**304**	1504						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 2, 4	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

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Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Oxygen	**Cu. Feet**	**3064**	**300**	3064						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 4	Type			Temperature						
		Days on Site: 365									
	Oxygen (liquid)	**Gallons**	**80**	**80**	80						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type			Temperature						
		Days on Site: 365									
	PAO2000	**Gallons**	**361**	**120**	361						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7, 10, 11	Type			Temperature						
		Days on Site: 365									
	PFR125	**Gallons**	**220**	**220**	220						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Phasetreat 637	**Gallons**	**120**	**120**	120						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 11	Type			Temperature						
		Days on Site: 365									
	Phasetreat6358	**Gallons**	**470**	**470**	470						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Phasetreat6365	**Gallons**	**415**	**250**	415						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6, 7	Type			Temperature						
		Days on Site: 365									
	Polybreaker	**Gallons**	**1000**	**1000**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

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Facility Name **Huntington Beach/Platform Emmy** | Facility ID

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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Propane	**Cu. Feet**	**500**	**250**	500						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type	Days on Site: 365		Temperature						
	R-410A	**Pounds**	**328**	**328**	328						
	CAS No	State: Gas	Storage Container: Plastic/Non-metalic Drum, Other		Pressue	Waste Code					
	Map: 3	Type	Days on Site: 365		Temperature						
	RBW517	**Gallons**	**115**	**115**	115						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type	Days on Site: 365		Temperature						
	RBW6000X	**Gallons**	**610**	**300**	610						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 2, 6, 7	Type	Days on Site: 365		Temperature						
	RBW6560	**Gallons**	**250**	**250**	250						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type	Days on Site: 365		Temperature						
	Scaletreat8159	**Gallons**	**330**	**330**	330						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6	Type	Days on Site: 365		Temperature						
	Scavtreat 1119	**Gallons**	**165**	**165**	165						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type	Days on Site: 365		Temperature						
	Scavtreat12401	**Gallons**	**120**	**120**	120						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum, Tote Bin		Pressue	Waste Code					
	Map: 8	Type	Days on Site: 365		Temperature						

Hazardous Materials And Wastes Inventory Matrix Report

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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SCW4056 Scale Inhibitor	**Gallons**	**690**	**345**	690						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 2	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**930**	**330**	930						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 5, 6, 12	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**750**	**330**	750						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**320**	**200**	320						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**1000**	**200**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 9	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**960**	**120**	960						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 10	Type			Temperature						
		Days on Site: 365									
	SCW4056 Scale Inhibitor	**Gallons**	**600**	**120**	600						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 11	Type			Temperature						
		Days on Site: 365									
	Silver Sand #16	**Pounds**	**1000**	**1000**	1000						
	CAS No	State: Solid	Storage Container: Plastic/Non-metalic Drum, Bag		Pressue	Waste Code					
	Map: 11	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Solibond	**Pounds**	**1000**	**1000**	1000						
	CAS No	State: Solid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 12	Type			Temperature						
		Days on Site: 365									
	SRW30113	**Gallons**	**1000**	**1000**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 7	Type			Temperature						
		Days on Site: 365									
	Technicheck3658	**Gallons**	**400**	**200**	400						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6, 8	Type			Temperature						
		Days on Site: 365									
	Tellus Oil 46	**Gallons**	**55**	**55**	55						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1	Type			Temperature						
		Days on Site: 365									
	TetroliteMO2030	**Gallons**	**165**	**165**	165						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type			Temperature						
		Days on Site: 365									
	WCW7918	**Gallons**	**690**	**345**	690						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 1, 2	Type			Temperature						
		Days on Site: 365									
	WCW7918	**Gallons**	**220**	**220**	220						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 6	Type			Temperature						
		Days on Site: 365									
	WCW7918	**Gallons**	**480**	**120**	480						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 10	Type			Temperature						
		Days on Site: 365									

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

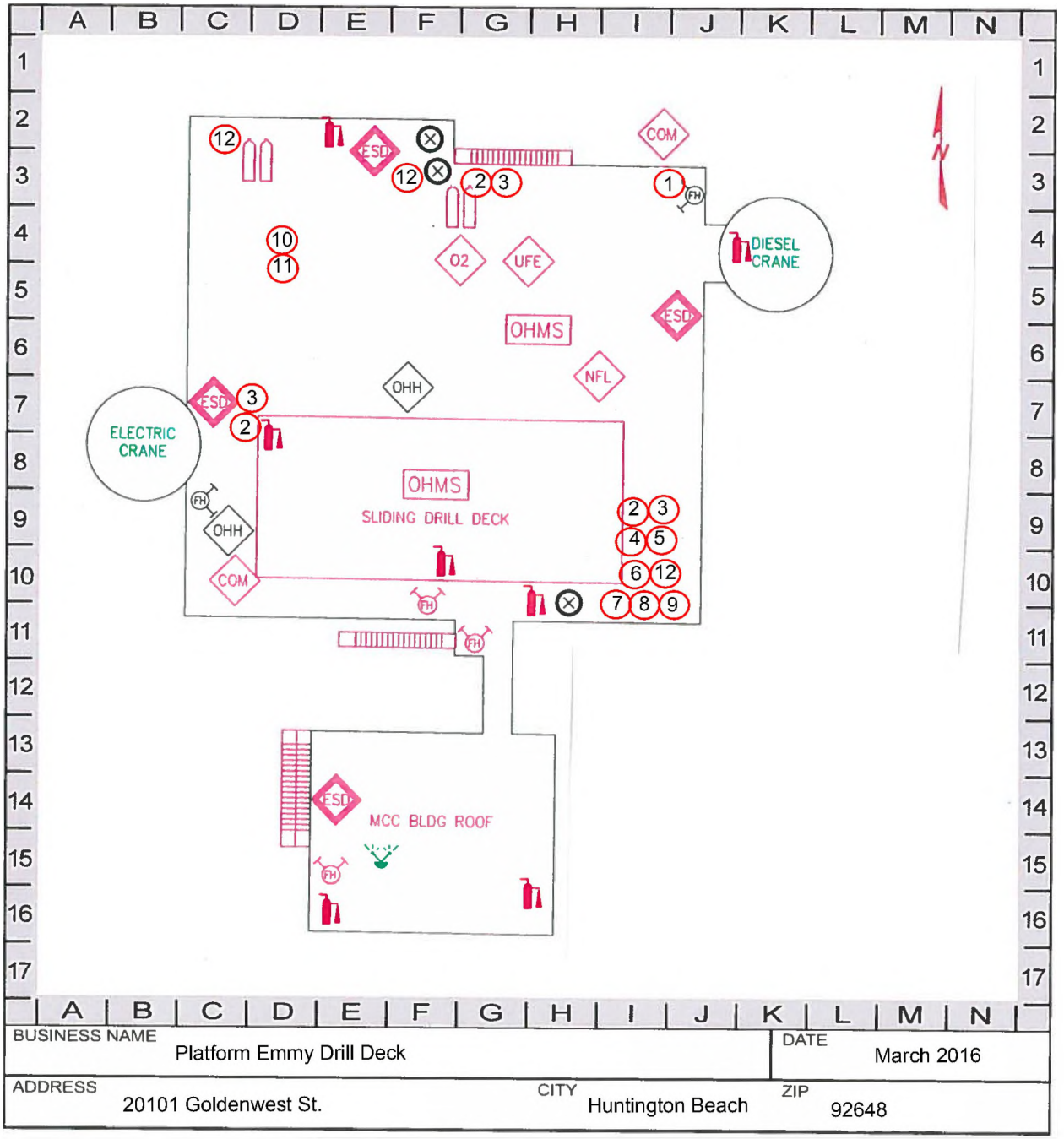
Facility Name **Huntington Beach/Platform Emmy** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/27/2017 4:01 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	WCW7918	**Gallons**	**130**	**130**	130						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 12	Type	Days on Site: 365		Temperature						
	Xtra-Lube	**Gallons**	**1000**	**1000**	1000						
	CAS No	State: Liquid	Storage Container: Plastic/Non-metalic Drum		Pressue	Waste Code					
	Map: 8	Type	Days on Site: 365		Temperature						

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE
2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 1



BUSINESS NAME		DATE
Platform Emmy Drill Deck		March 2016
ADDRESS	**CITY**	**ZIP**
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

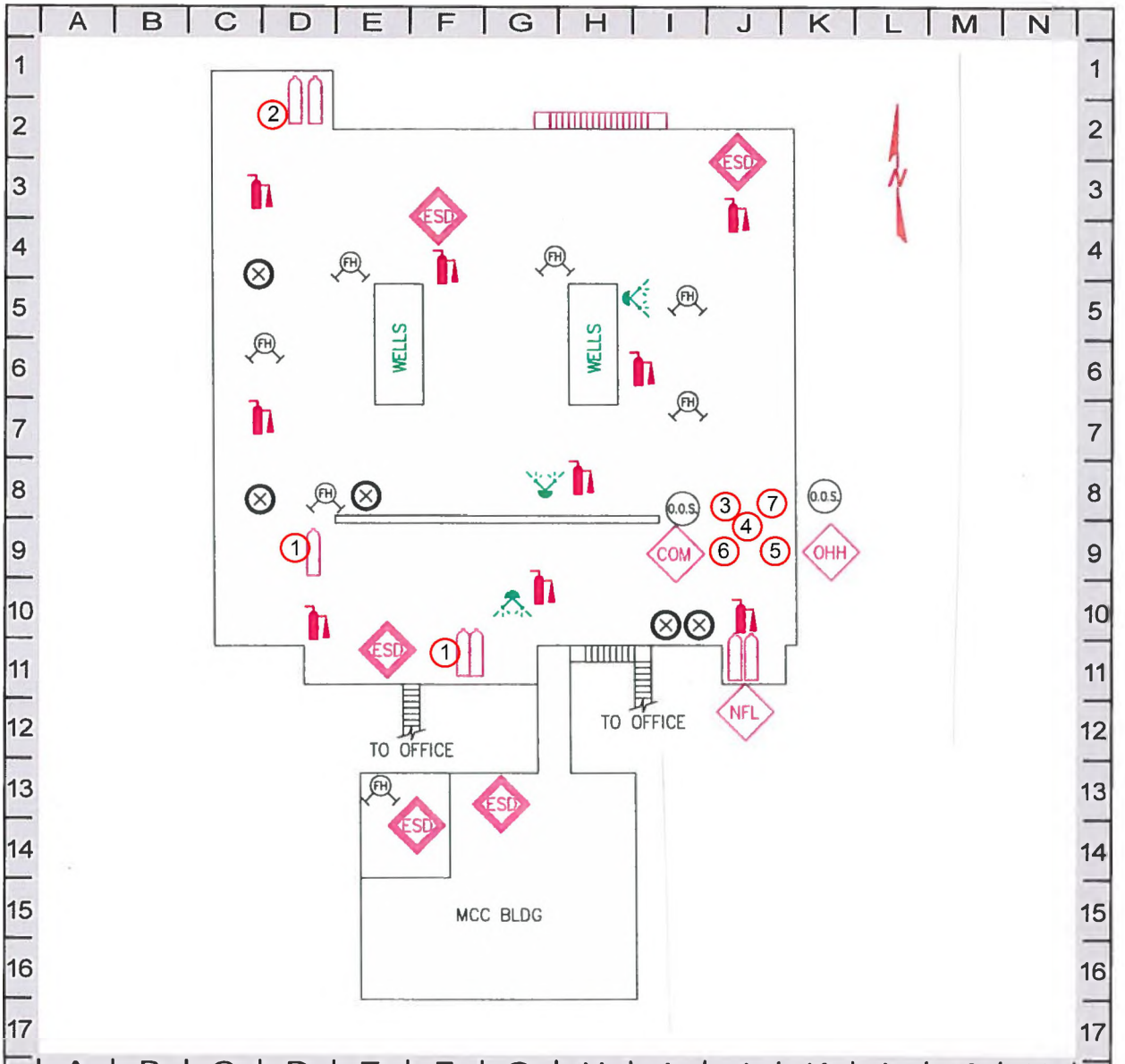
Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory	Map #	Chemical Name	Avg Inventory
1	Diesel	550 gal	7	SCW4056	345 gal
2	Oxygen	9 @ 300 scf	8	WCW7918	345 gal
3	Acetylene	6 @ 250 scf	9	Nitrogen	300 scf
4	CRW3658	345 gal	10	Oxygen (liquid)	80 gal
5	CGO49	345 gal	11	Propane	2 @ 250 scf
6	CLW3075	345 gal	12	Tellus Oil 46	55 gal

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE

2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
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Hazardous Materials Facility Site Map 2



BUSINESS NAME	DATE
Platform Emmy Production Deck	March 2016

ADDRESS	CITY	ZIP
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

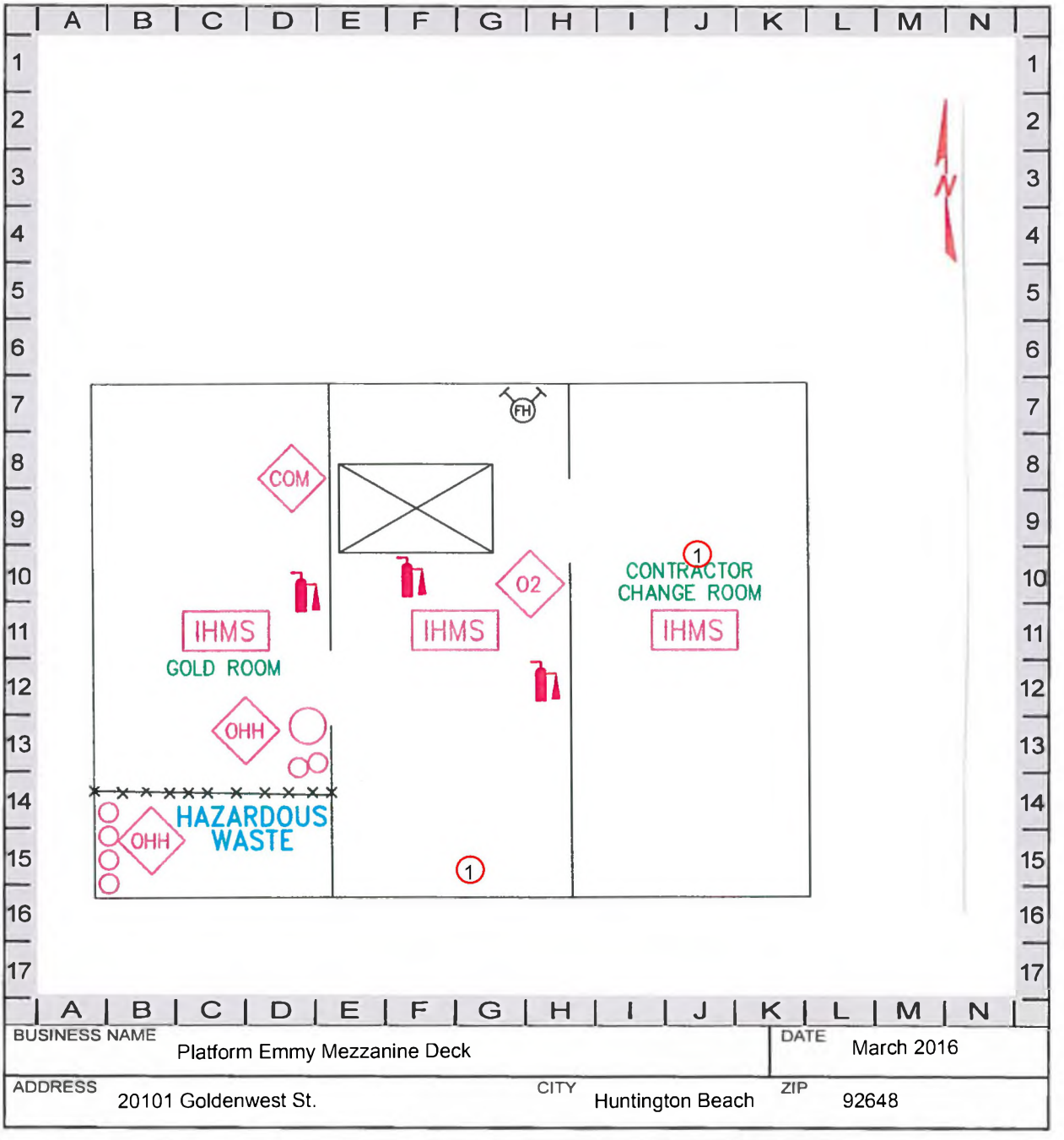
Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory
1	Nitrogen	3 @ 300 scf
2	Carbon Dioxide	4 @ 300 scf
3	WCW7918	345 gal
4	CRW3658	345 gal
5	Corrtreat 7219	115 gal
6	SCW4056	345 gal
7	RBW6000X	110 gal

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE

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Hazardous Materials Facility Site Map 3



BUSINESS NAME		DATE
	Platform Emmy Mezzanine Deck	March 2016

ADDRESS	CITY	ZIP
20101 Goldenwest St.	Huntington Beach	92648

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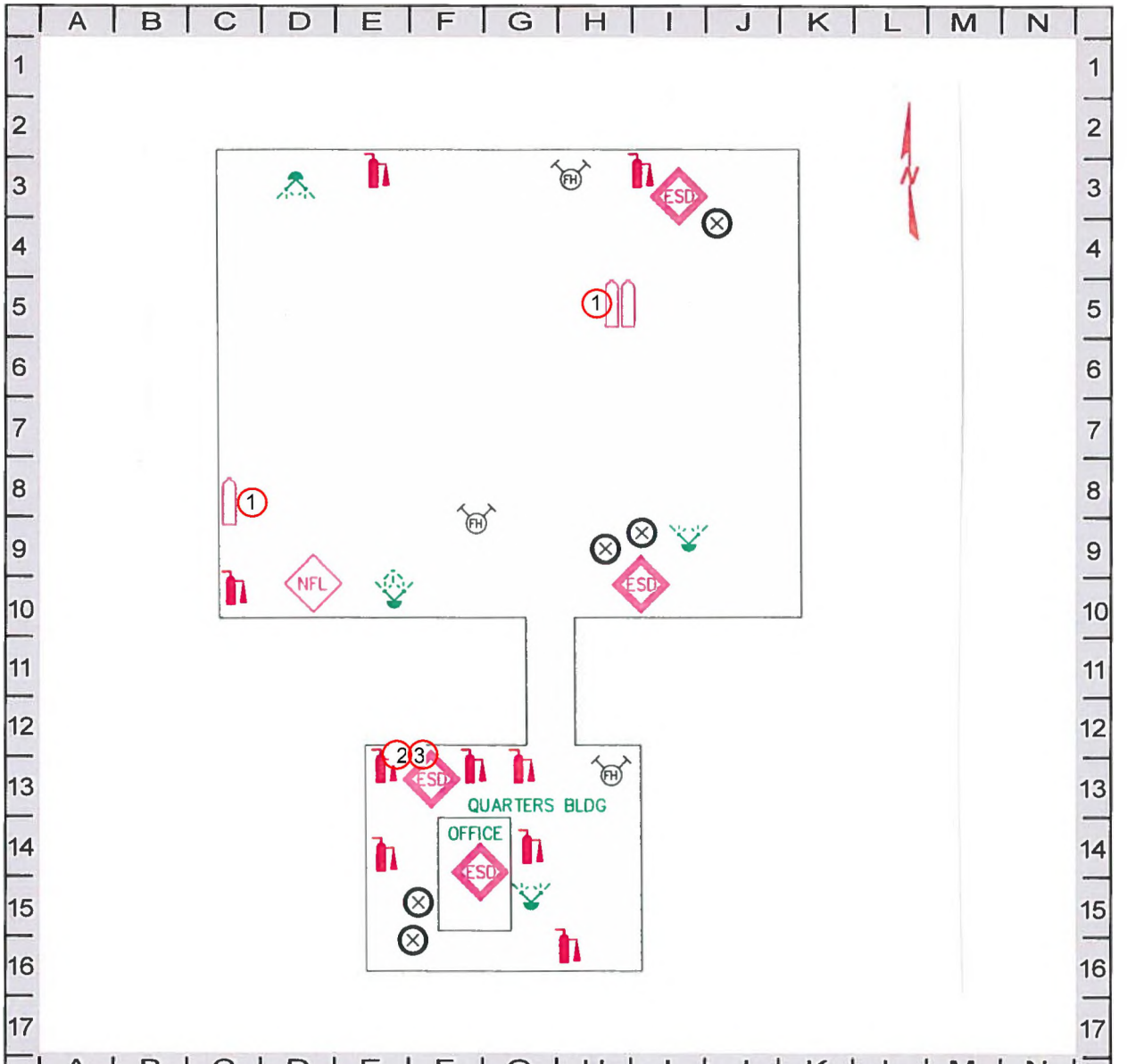
Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory
1	R-410A	328 lbs

Site map # _____

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HAZARDOUS MATERIALS DISCLOSURE OFFICE
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Hazardous Materials Facility Site Map 4



BUSINESS NAME		DATE
Platform Emmy Lower Deck		March 2016
ADDRESS	**CITY**	**ZIP**
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

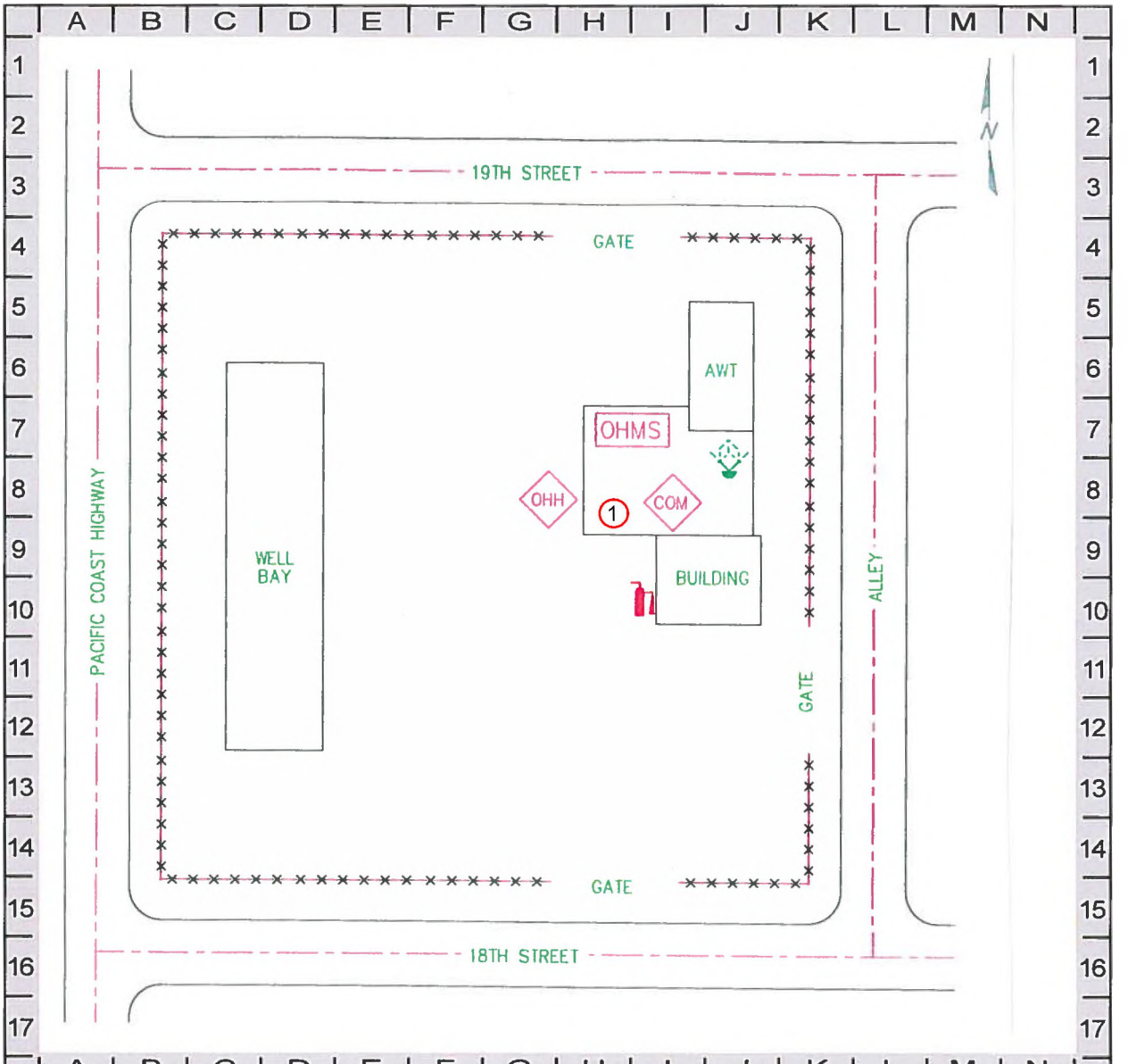
Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory
1	Nitrogen	3 @ 304 scf
2	Oxygen	364 scf
3	Acetylene	221 scf

Site map # _____

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE
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Hazardous Materials Facility Site Map 5



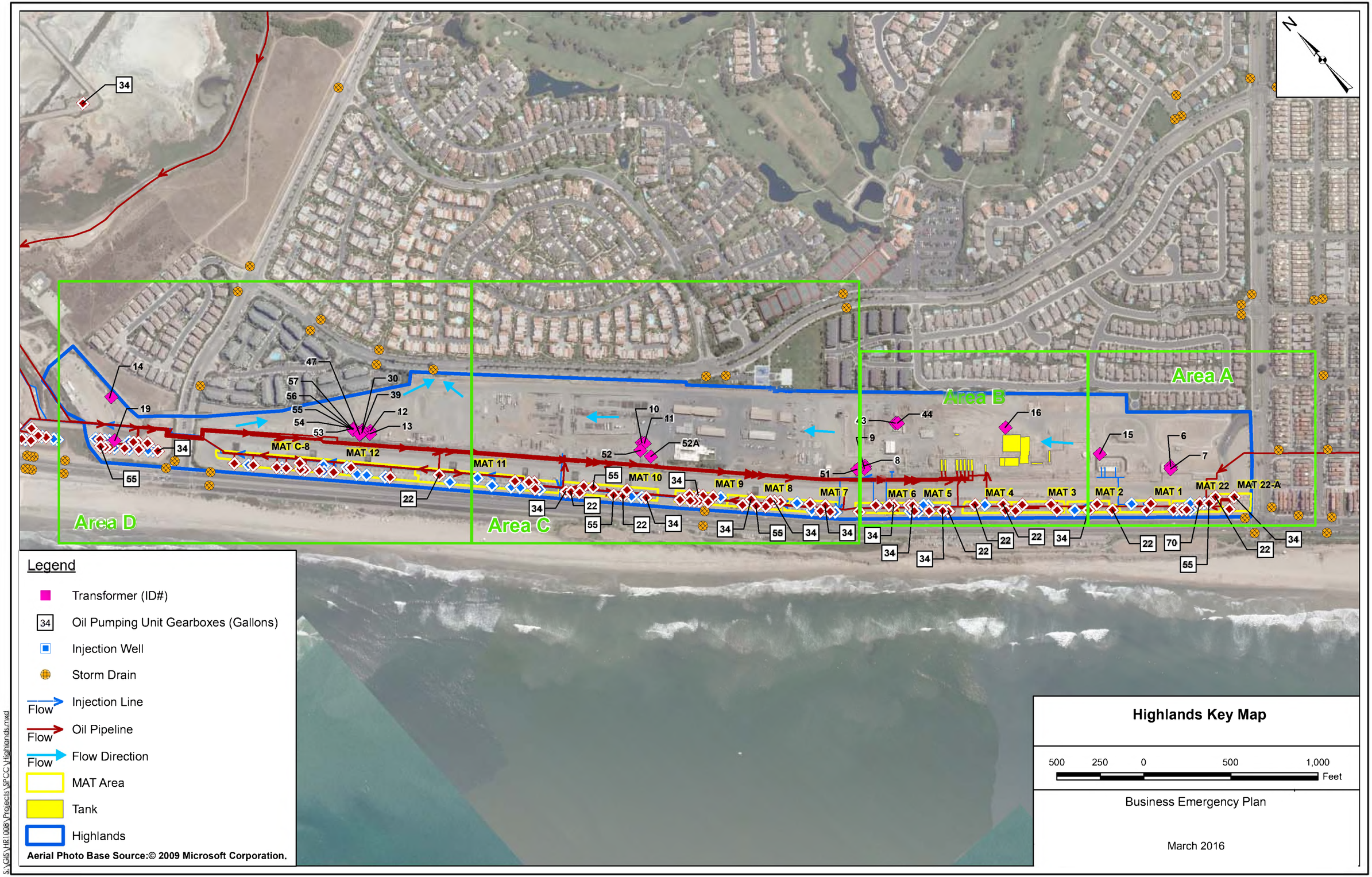
BUSINESS NAME		DATE
Fort Apache		March 2016
ADDRESS	**CITY**	**ZIP**
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory
1	SCW4056	330 gal

Site map # _____


N
34
14
19
55
47
57
56
55
54
53
30
39
12
13
34
MAT C-8
MAT 12
22
Area D
10
11
52
52A
MAT 11
34
55
22
34
Area C
55
MAT 10
34
22
34
MAT 9
34
MAT 8
55
34
MAT 7
34
43
44
9
8
51
MAT 6
34
34
MAT 5
22
Area B
Area A
16
MAT 4
22
22
MAT 3
34
15
6
7
MAT 2
22
MAT 1
70
55
MAT 22
MAT 22-A
22
34
Legend
Transformer (ID#)
34 Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Storm Drain
Flow Injection Line
Flow Oil Pipeline
Flow Flow Direction
MAT Area
Tank
Highlands
Aerial Photo Base Source:© 2009 Microsoft Corporation.
S:\GIS\VIR1008\Projects\SPCC\Highlands.mxd
Highlands Key Map
500 250 0 500 1,000
Feet
Business Emergency Plan
March 2016



Legend

- Transformer (ID#)
- Oil Well
- 34 Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Flow Injection Line
- Flow Oil Pipeline
- Flow Flow Direction
- MAT Area
- Highlands

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory
1	CRW3658	120 gal
2	WCW7918	220 gal
3	Phasetreat6365	250 gal
4	Scaletreat8159	330 gal
5	DMO8424	200 gal
6	Diesel #2	100 gal
7	Technicheck3658	200 gal
8	HSW700	120 gal
9	RBW6000X	300 gal
10	SCW4056	300 gal

Highlands
MAT 1, MAT 2, MAT 22, and MAT 22-A

100 50 0 100 200 Feet

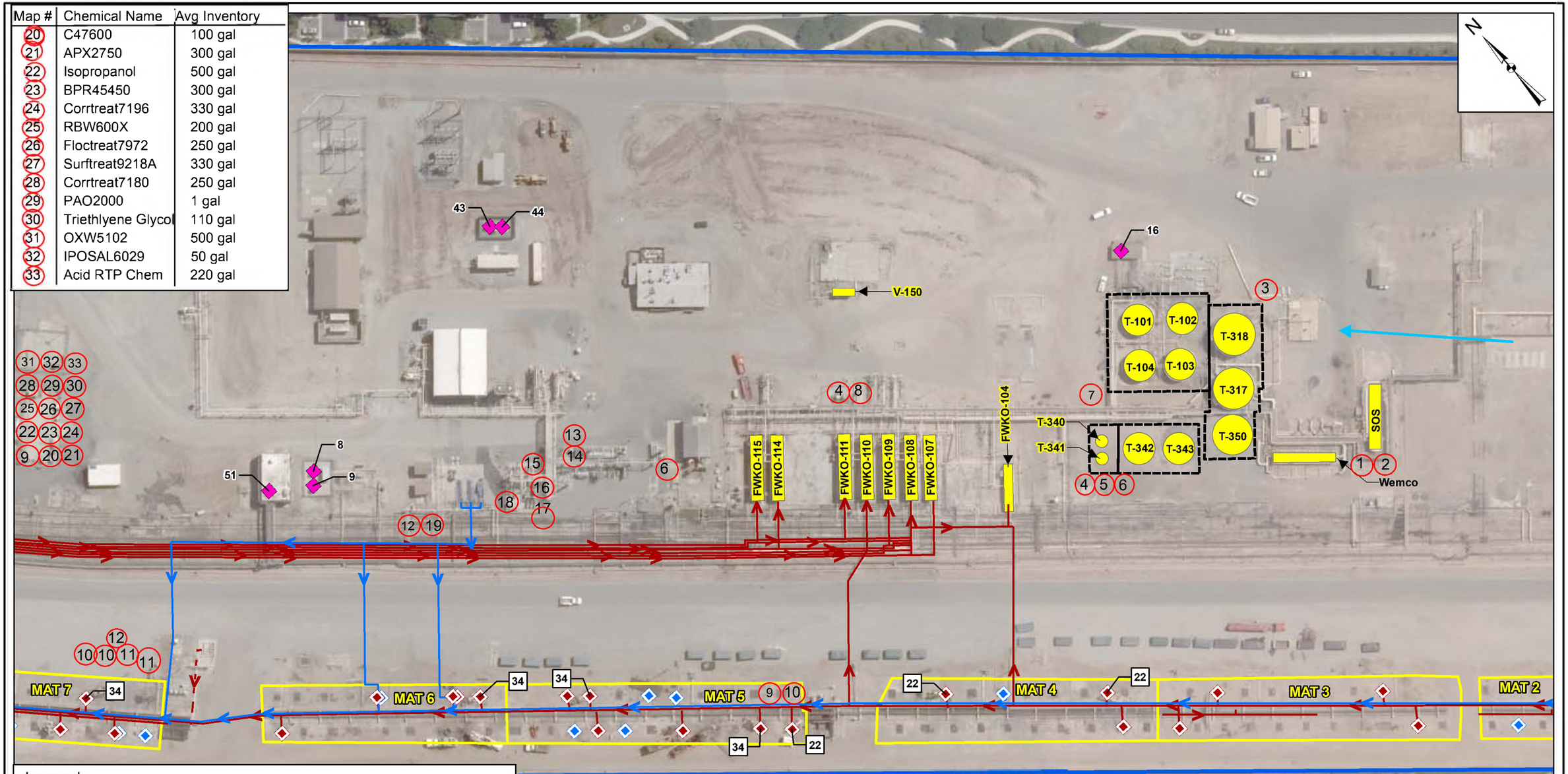
Business Emergency Plan

March 2016

Figure 6

S:\GIS\HR1008\Projects\SPCC\Highlands_AreaA.mxd

Map #	Chemical Name	Avg Inventory
20	C47600	100 gal
21	APX2750	300 gal
22	Isopropanol	500 gal
23	BPR45450	300 gal
24	Corrtreat7196	330 gal
25	RBW600X	200 gal
26	Floctreat7972	250 gal
27	Surftreat9218A	330 gal
28	Corrtreat7180	250 gal
29	PAO2000	1 gal
30	Triethlyene Glycol	110 gal
31	OXW5102	500 gal
32	IPOSAL6029	50 gal
33	Acid RTP Chem	220 gal



Legend

- Transformer (ID#)
- Oil Well
- 34 — Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Tanks
- MAT Area
- Flow — Injection Line
- Flow — Oil Pipeline
- Flow — Oil Test Line
- Flow — Flow Direction
- Highlands

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory	Map #	Chemical Name	Avg Inventory
1	RBW517	115 gal	11	DMO8424	420 gal
2	SRW30113	1000 gal	12	Phasetreat6365	165 gal
3	Activated Carbon	12,000 gal	13	Scavtreat 1119	165 gal
4	RBW6560	250 gal	14	GT Antifoam	120 gal
5	DMO8298U	110 gal	15	Methane	4 @ 300 scf
6	HSW700	370 gal	16	Helium	4 @ 300 scf
7	Engine Oil	440 gal	17	Hydrocarbon Gases	50 scf
8	PFR125	220 gal	18	Ethlyene Glycol	110 gal
9	Phasetreat6358	470 gal	19	Coilguard	330 gal
10	SCW4056	750 gal			

Highlands
MAT 3 to MAT 6

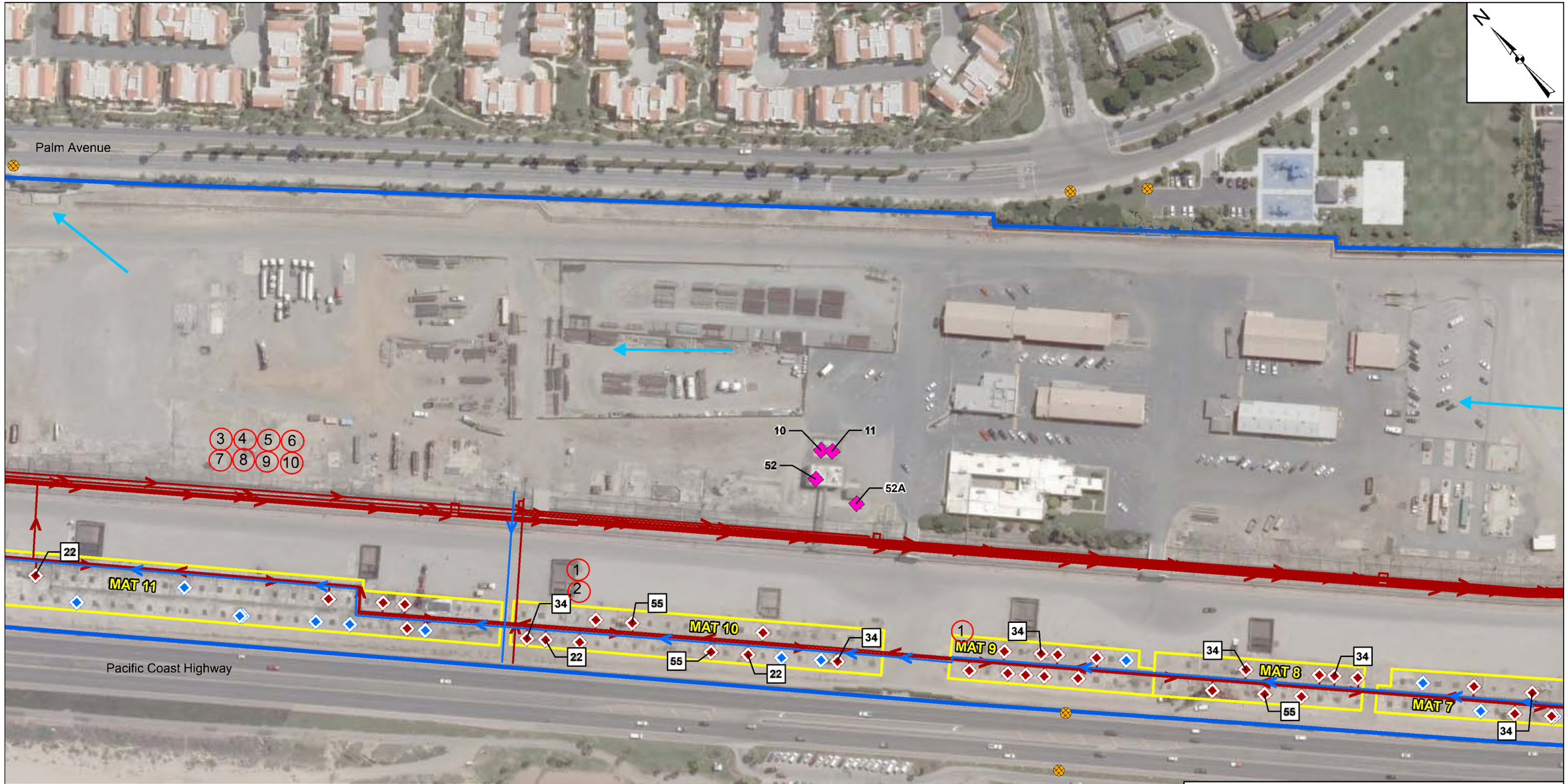
100 50 0 100 200 Feet

Business Emergency Plan

March 2016

Figure 7

S:\GIS\HR1008\Projects\SPCC\Highlands_Area8.mxd



Legend

- Transformer (ID#)
- Oil Well
- 34 Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Flow Injection Line
- Flow Oil Pipeline
- Flow Flow Direction
- MAT Area
- Highlands

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory
1	SCW4056	320 gal
2	Technicheck3658	200 gal
3	Floctreat7932A	525 gal
4	TetroliteMO2030	165 gal
5	DMO8424	250 gal
6	Scavtreat12401	120 gal
7	Xtra-Lube	1000 gal
8	Polybreaker	1000 gal
9	Mineral Oil	1000 gal
10	Lube 167	1000 gal

Highlands
MAT 7 to MAT 11

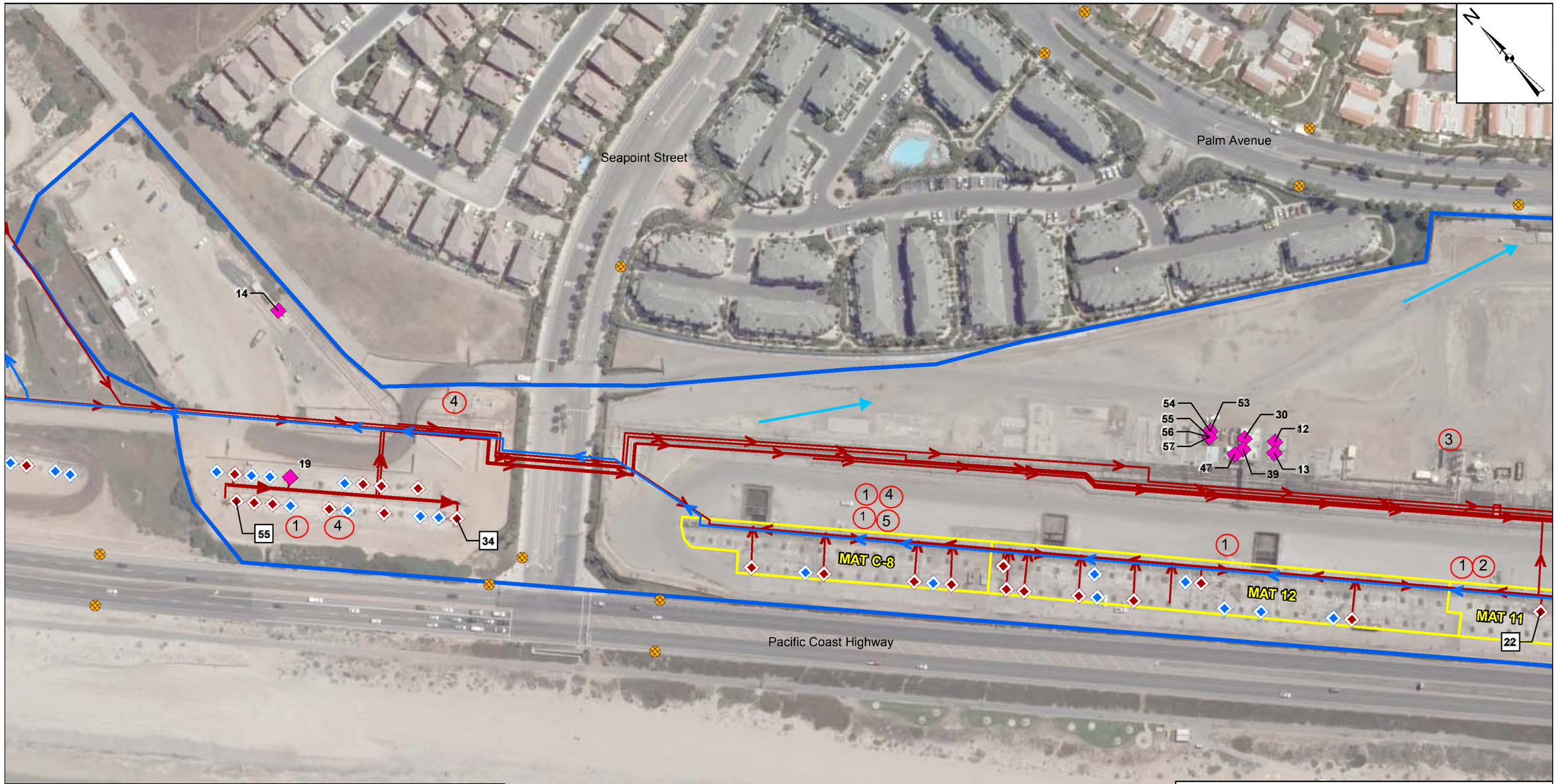
150 75 0 150 300 Feet

Business Emergency Plan

March 2016

Figure 8

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Legend

- Transformer (ID#)
- Oil Well
- 34 — Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Flow — Injection Line
- Flow — Oil Pipeline
- Flow — Flow Direction
- MAT Area
- Highlands

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory
1	SCW4056	1000 gal
2	Corrtreat 7182	440 gal
3	Lube Oil	100 gal
4	DMO8424	590 gal
5	CRW3658	220 gal

Highlands
MAT 12 and MAT C-8

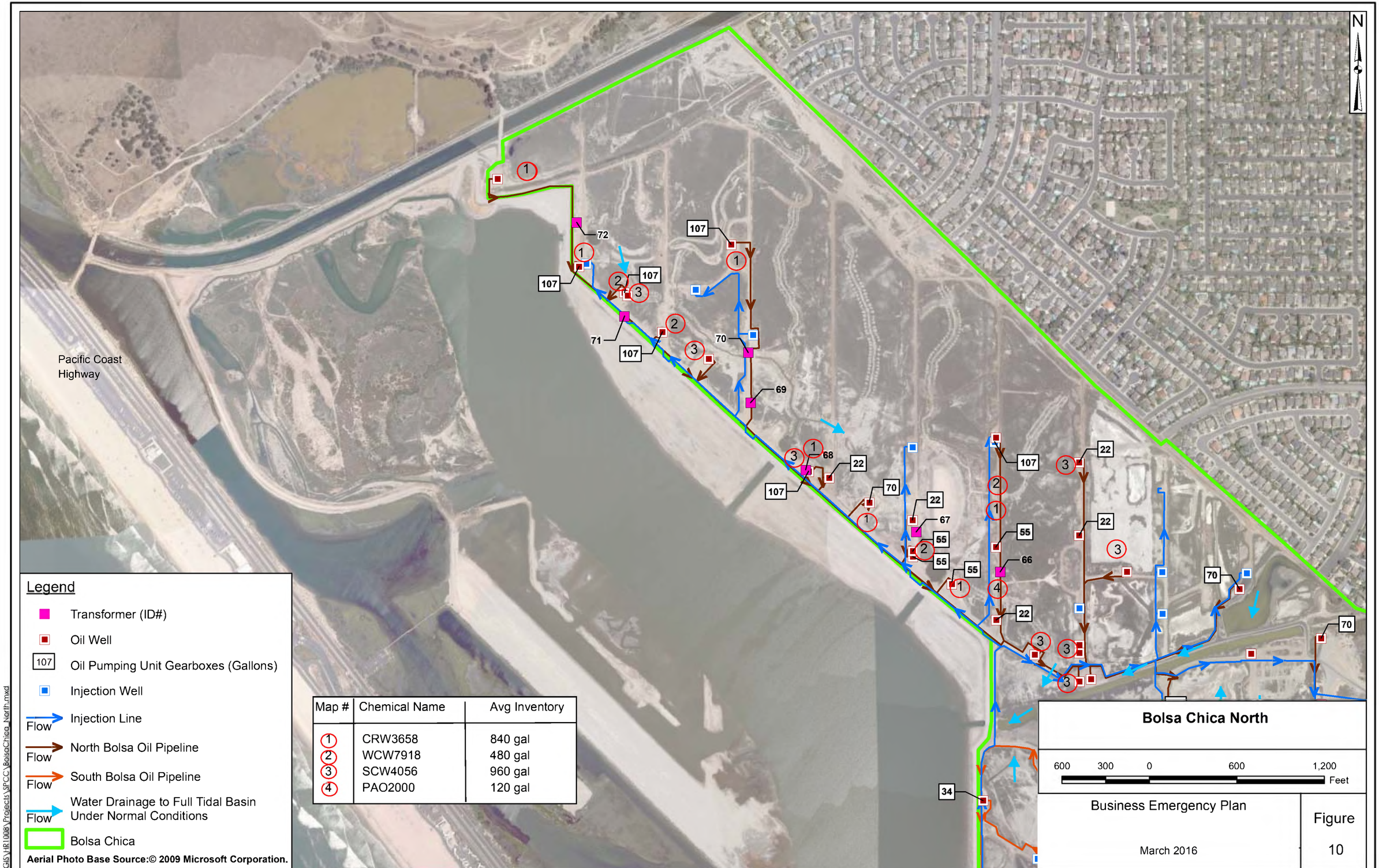
150 75 0 150 300 Feet

Business Emergency Plan

March 2016

Figure 9

S:\GIS\HR1008\Projects\SPCC\Highlands_AreaD.mxd


N
Pacific Coast
Highway
72
107
71
70
69
68
67
66
55
34
22
Legend
Transformer (ID#)
Oil Well
107
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Flow
Injection Line
Flow
North Bolsa Oil Pipeline
Flow
South Bolsa Oil Pipeline
Flow
Water Drainage to Full Tidal Basin Under Normal Conditions
Bolsa Chica
Aerial Photo Base Source:© 2009 Microsoft Corporation.
Map # | Chemical Name | Avg Inventory
1 | CRW3658 | 840 gal
2 | WCW7918 | 480 gal
3 | SCW4056 | 960 gal
4 | PAO2000 | 120 gal
Bolsa Chica North
600 300 0 600 1,200
Feet
Business Emergency Plan
March 2016
Figure
10
S:\GIS\VER1008\Projects\SPCC\BolsaChica_North.mxd

N

Seapoint Ave.

Legend

- Transformer (ID#)
- Oil Well
- 107 — Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- Flow — Injection Line
- Flow — North Bolsa Oil Pipeline
- Flow — South Bolsa Oil Pipeline
- Flow — Water Drainage to Full Tidal Basin Under Normal Conditions
- Bolsa Chica

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory
1	CRW3658	1200 gal
2	n/a	
3	DMO8424	120 gal
4	Phasetreat 637	120 gal
5	SCW4056	600 gal
6	PAO2000	240 gal
7	Silver Sand #16	1000 lbs
8	n/a	

Bolsa Chica South

400 200 0 400 800 Feet

Business Emergency Plan

March 2016

Figure 11

S:\GIS\HR1008\Projects\SPCC\BolsaChica_South.mxd

N

Pad 7A
61
62

State Lease

46
41
Building 7

37
36
34
38
50
Building 6

Building 5
31
32
33
60
59
58
45
35

5

14

19

55

70

1 4

1 2

1

1 3

Pacific Coast Highway

Legend

- Transformer (ID#)
- Oil Well
- 70 — Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Stormdrains
- Flow — Injection Line
- Flow — Oil Pipeline
- KVS Tank
- Facilities
- State Lease

Aerial Photo Base Source:© 2009 Microsoft Corporation.

Map #	Chemical Name	Avg Inventory
1	SCW4056	300 gal
2	CRW3658	200 gal
3	WCW7918	130 gal
4	Corrtreat7182	120 gal
5	Solibond	1000 lbs

State Lease

250 125 0 250 500 Feet

Business Emergency Plan

March 2016

Figure 12

S:\GIS\HR1008\Projects\SPCC\State_Lease.mxd

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID # (1.)	CERS ID (A1.)	DATE OF PLAN PREPARATION/REVISION (A2.)
— —	10446451	1/1/2017

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* (3.)
Huntington Beach Field and Platform Emmy - SoCal Holding, LLC

BUSINESS SITE ADDRESS (103.)
20101 Goldenwest St.

BUSINESS SITE CITY (104.)		ZIP CODE (105.)
Huntington Beach	CA	90648

TYPE OF BUSINESS (e.g., Painting Contractor) (A3.)	INCIDENTAL OPERATIONS (e.g., Fleet Maintenance) (A4.)
Crude Oil and Gas Production	Crude Oil and Gas Production

THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING: (Check all that apply) (A5.)

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Check all that apply) (B1.)

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator (or his/her designee when the Emergency Coordinator is on call) shall:

1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
2. Notify appropriate local authorities (i.e., call 9-1-1).
3. Notify the California Emergency Management Agency at (800) 852-7550.

Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall notify the California Department of Toxic Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR VIA: (Check all that apply) (C1.)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☒ 5. ALARM SYSTEM; ☒ 6. PORTABLE RADIO

NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY: (Check all that apply) (C2.)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

EMERGENCY RESPONSE PHONE NUMBERS:		
	AMBULANCE, FIRE, POLICE AND CHP	9-1-1
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY (CAL/EMA)	(800) 852-7550
	NATIONAL RESPONSE CENTER (NRC)	(800) 424-8802
	POISON CONTROL CENTER	(800) 222-1222
	LOCAL UNIFIED PROGRAM AGENCY (UPA/CUPA)	(714) 573-6250 (C3.)
	OTHER (Specify): (C4.)	(C5.)
NEAREST MEDICAL FACILITY / HOSPITAL NAME:	Huntington Beach Hospital (C6.)	(714) 842-1473 (C7.)
AGENCY NOTIFICATION PHONE NUMBERS:	CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)	(916) 255-3545
	REGIONAL WATER QUALITY CONTROL BOARD	(951) 781-6288 (C8.)
	U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)	(800) 300-2193
	CALIFORNIA DEPT OF FISH AND GAME (DFG)	(916) 358-2900
	U.S. COAST GUARD	(202) 267-2180
	CAL/OSHA	(916) 263-2800
	STATE FIRE MARSHAL	(916) 445-8200
	OTHER (Specify): SCAQMD (C9.)	(909) 396-2000 (C10.)
	OTHER (Specify): DOGGR (C11.)	(714) 816-6847 (C12.)

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, releases, fires or explosions; and. preventing and mitigating associated harm to persons, property, and the environment.)

D1.

- ☒ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☒ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);
- ☒ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);
- ☒ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;
- ☒ 5. BUILT-IN BERM IN WORK / STORAGE AREA;
- ☒ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☒ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);
- ☒ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☒ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☒ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;
- ☒ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;
- ☒ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AREAS;
- ☒ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;
- ☐ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;
- ☒ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☒ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE;
- ☒ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;
- ☐ 21. OTHER (Specify):

D2.

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY): E1.

- ☐ 1. BELLS;
- ☒ 2. HORNS/SIRENS;
- ☒ 3. VERBAL (I.E., SHOUTING);
- ☒ 4. OTHER (Specify): Cell Phone

E2.

THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.) E3.

Primary onshore assembly area: Flagpole near main office buildings

Primary offshore assembly area: Satellite deck

Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation.

☒ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED E4.

Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

F. ARRANGEMENTS FOR EMERGENCY SERVICES

Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made as appropriate for your facility. You may determine that such arrangements are not necessary.

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following) F1.

- ☐ 1. HAVE BEEN DETERMINED NOT NECESSARY; *or*
- ☒ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify):

F2.

Onshore: Patriot Environmental has been contracted to proved 24-hour emergency response cleanup services for the onshore facility. Patriot's phone number is (800) 624-9136.

Offshore: MSRC has been contracted to provide 24-hour emergency response cleanup services for the offshore facility. MSRC's phone number is (800) 645-7745.

G. EMERGENCY EQUIPMENT

Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g., ☒ CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.]

TYPE	EQUIPMENT AVAILABLE	LOCATION	CAPABILITY *(If applicable)*
Safety and First Aid	1. ☒ CHEMICAL PROTECTIVE SUITS, APRONS, OR VESTS (G1.)	G2. Warehouse	G3. Available to employees as needed
	2. ☒ CHEMICAL PROTECTIVE GLOVES	G4. Warehouse, each person	G5. Available to employees as needed
	3. ☒ CHEMICAL PROTECTIVE BOOTS	G6. Warehouse	G7. Available to employees as needed
	4. ☒ SAFETY GLASSES / GOGGLES / SHIELDS	G8. Each person	G9. All employees wear protective eyewear
	5. ☒ HARD HATS	G10. Each person	G11. All employees wear hard hats
	6. ☐ CARTRIDGE RESPIRATORS	G12.	G13.
	7. ☒ SELF-CONTAINED BREATHING APPARATUS (SCBA)	G14. Tank Farm Office/Emmy	G15. Units available for specific tasks
	8. ☒ FIRST AID KITS / STATIONS	G16. Warehouse, vehicles, office	G17. All vehicles carry first aid kits
	9. ☒ PLUMBED EYEWASH FOUNTAIN / SHOWER	G18. Various field locations	G19.
	10. ☒ PORTABLE EYEWASH KITS	G20. Various field locations and vehicles	G21. All vehicles carry eye wash bottles
	11. ☒ OTHER	G22. All employees wear H2S or 4-gas monitors	G23.
	12. ☒ OTHER	G24. All employees wear fire resistant clothing (FRC)	G25.
Fire Fighting	13. ☒ PORTABLE FIRE EXTINGUISHERS	G26. Vehicles	G27. 20 and/or 30 lbs. units in vehicles
	14. ☒ FIXED FIRE SYSTEMS / SPRINKLERS / FIRE HOSES	G28. Gas Plant (DCU)	G29. Deluge system for gas plant
	15. ☐ FIRE ALARM BOXES OR STATIONS	G30.	G31.
	16. ☐ OTHER	G32.	G33.
Spill Control and Clean-Up	17. ☐ ALL-IN-ONE SPILL KIT	G34.	G35.
	18. ☒ ABSORBENT MATERIAL	G36. Warehouse, field vehicles	G37.
	19. ☐ CONTAINER FOR USED ABSORBENT	G38.	G39.
	20. ☒ BERMING / DIKING EQUIPMENT	G40. Warehouse, Storage	G41. Secondary containment at all storage tanks
	21. ☒ BROOM	G42. Warehouse	G43. several
	22. ☒ SHOVEL	G44. Warehouse	G45. 10+ available
	23. ☐ SHOP VAC	G46.	G47.
	24. ☐ EXHAUST HOOD	G48.	G49.
	25. ☒ EMERGENCY SUMP / HOLDING TANK	G50. Tank Farm 1 Highlands	G51.
	26. ☐ CHEMICAL NEUTRALIZERS	G52.	G53.
	27. ☐ GAS CYLINDER LEAK REPAIR KIT	G54.	G55.
	28. ☐ SPILL OVERPACK DRUMS	G56.	G57.
	29. ☐ OTHER	G58.	G59.
Communi-cations and Alarm Systems	30. ☒ TELEPHONES (Includes cellular)	G60. Each person	G61. All employees have cell phones
	31. ☐ INTERCOM / PA SYSTEM	G62.	G63.
	32. ☒ PORTABLE RADIOS	G64. Each person	G65. All employees have cell phones and/or radios
	33. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT	G66.	G67.
Other	34. ☐ OTHER	G68.	G69.
	35. ☐ OTHER	G70.	G71.

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases / spills due to earthquake-related motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS: (Check all that apply)	H1.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)	
☒ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA		crude oil storage tanks	H2.
☒ 2. PROCESS LINES / PIPING			H3.
☐ 3. LABORATORY			H4.
☐ 4. WASTE TREATMENT AREA			H5.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS: (Check all that apply)	H6.	LOCATIONS	
☒ 1. SHELVES, CABINETS AND RACKS			H7.
☒ 2. TANKS (EMERGENCY SHUTOFF)			H8.
☒ 3. PORTABLE GAS CYLINDERS			H9.
☒ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES		shutoff valves	H10.
☒ 5. SPRINKLER SYSTEMS			H11.
☒ 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)		pressure vessel	H12.

I. EMPLOYEE TRAINING

Explanation of Requirement: Employee training is required for all employees handling hazardous materials and hazardous wastes in day-to-day or clean-up operations including volunteers and/or contractors. Training must be:

- Provided within 6 months for new hires;
- Amended as necessary prior to change in process or work assignment;
- Given upon modification to the Emergency Response / Contingency Plan, and updated/refreshed annually for all employees.

Required content includes all of the following:

- Material Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Fire hazards of materials / processes;
- Conditions likely to worsen emergencies;
- Coordination of emergency response;
- Notification procedures;
- Applicable laws and regulations;
- Communication and alarm systems;
- Personal protective equipment;
- Use of emergency response equipment (e.g. Fire extinguishers, respirators, etc.);
- Decontamination procedures;
- Evacuation procedures;
- Control and containment procedures;
- UST monitoring system equipment and procedures (if applicable).

INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all that apply) I1.

☐ 1. FORMAL CLASSROOM; ☒ 2. VIDEOS; ☒ 3. SAFETY / TAILGATE MEETINGS;

☒ 4. STUDY GUIDES / MANUALS (Specify): CRC HSE Manual I2.

☒ 5. OTHER (Specify): All employees participate in online safety coursework (viaTrainingMine), contractors undergo orientation upon hire I3.

☐ 6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES

Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste generators (i.e., who generate more than 270 gallons/1,000 kilograms of hazardous waste per month) must retain written documentation of employee hazardous waste management training sessions which includes:

- A written outline/agenda of the type and amount of both introductory and continuing training that will be given to persons filling each job position having responsibility for the management of hazardous waste (e.g., labeling, manifesting, compliance with accumulation time limits, etc.).
- The name, job title, and date of training for each hazardous waste management training session given to an employee filling such a job position; and
- A written job description for each of the above job positions that describes job duties and the skills, education, or other qualifications required of personnel assigned to the position.
- Current employee training records must be retained until closure of the facility.
- Former employee training records must be retained at least three years after termination of employment.

J. LIST OF ATTACHMENTS

(Check one of the following) J1.

☒ 1. NO ATTACHMENTS ARE REQUIRED; *or*

☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

K. SIGNATURE / CERTIFICATION

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

SIGNATURE OF OWNER/OPERATOR	DATE SIGNED K1.
Kristy Monji	2/23/2017
NAME OF SIGNER (print) K2.	TITLE OF SIGNER K3.
Kristy Monji	Environmental Specialist, HSE

CRC South HAZCOM Training Report for BEP Update			
Learner	**Training Item**	**Date Completed**	**Result**
Ababat,Wenifredo Saraum	California Hazard Communication_SC-158	7/26/2016 16:54	PASS
Adams,Donald **T**	California Hazard Communication_SC-158	3/31/2016 14:39	PASS
Adams,Donnell R	California Hazard Communication_SC-158	7/31/2016 12:38	PASS
Alcala,Eduardo	California Hazard Communication_SC-158	8/30/2016 14:37	PASS
Alvarez-Granados,Juan M	California Hazard Communication_SC-158	9/19/2016 15:02	PASS
Alvary,Robert J	California Hazard Communication_SC-158	5/9/2016 9:02	PASS
Amador Sr,George Alex	California Hazard Communication_SC-158	8/14/2016 7:43	PASS
Amos,Russell Allen	California Hazard Communication_SC-158	2/12/2016 9:21	PASS
Andersen,Barkley Christopher	California Hazard Communication_SC-158	5/23/2016 13:15	PASS
Anderson,RobRoy Scott	California Hazard Communication_SC-158	7/15/2016 13:39	PASS
Anguillet,Hans Paul Gustave	California Hazard Communication_SC-158	5/2/2016 11:13	PASS
Angus,Nathan C	California Hazard Communication_SC-158	2/19/2016 10:30	PASS
Anjos,Marcello	California Hazard Communication_SC-158	3/28/2016 17:35	PASS
Aragon,Michael Brendon	California Hazard Communication_SC-158	5/31/2016 10:18	PASS
Arriaga,Huitzilo	California Hazard Communication_SC-158	6/23/2016 15:37	PASS
Arrizon,Ignacio	California Hazard Communication_SC-158	3/5/2016 11:40	PASS
Aseltine,Daniel J	California Hazard Communication_SC-158	3/27/2016 17:56	PASS
Ault,Ricci **T**	California Hazard Communication_SC-158	9/7/2016 23:52	PASS
Avalos,Justin Joshua	California Hazard Communication_SC-158	3/3/2016 14:07	PASS
Aviles,Carlos	California Hazard Communication_SC-158	9/22/2016 18:41	PASS
Aviles,Erick A	California Hazard Communication_SC-158	7/25/2016 15:52	PASS

Avina,Ivan Isayd	California Hazard Communication_SC-158	3/31/2016 2:32	PASS
Ayala,Joshua Rafael	California Hazard Communication_SC-158	4/8/2016 13:04	PASS
Ayer III,Bruce E	California Hazard Communication_SC-158	8/4/2016 16:52	PASS
Babcock,Ryan Dale	California Hazard Communication_SC-158	8/15/2016 12:05	PASS
Babinski,Sylvester A	California Hazard Communication_SC-158	4/1/2016 11:26	PASS
Baek,Alice Hannah	California Hazard Communication_SC-158	5/18/2016 12:43	PASS
Ballinger,Nolan K	California Hazard Communication_SC-158	8/30/2016 14:36	PASS
Bean,James A	California Hazard Communication_SC-158	8/1/2016 16:27	PASS
Beck,Emma Nye	California Hazard Communication_SC-158	5/31/2016 13:59	PASS
Bell II,James E	California Hazard Communication_SC-158	2/21/2016 7:04	PASS
Bell,Joseph E	California Hazard Communication_SC-158	7/25/2016 15:46	PASS
Bell,Justin Lyn	California Hazard Communication_SC-158	3/6/2016 13:20	PASS
Bell,Steven L	California Hazard Communication_SC-158	4/11/2016 12:39	PASS
Bender,Rachel Leigha	California Hazard Communication_SC-158	5/31/2016 10:33	PASS
Benson,Joseph Eugene	California Hazard Communication_SC-158	3/31/2016 11:18	PASS
Benson,Lyndon E	California Hazard Communication_SC-158	3/3/2016 16:00	PASS
Bermudez,Jennifer C	California Hazard Communication_SC-158	7/5/2016 13:39	PASS
Bernabe,Mauro M	California Hazard Communication_SC-158	9/21/2016 13:05	PASS
Bernabe,Mauro M	California Hazard Communication_SC-158	3/29/2016 12:19	PASS
Berry,Todd William	California Hazard Communication_SC-158	3/24/2016 16:45	PASS
Bilyeu,Cassandra Renee	California Hazard Communication_SC-158	5/19/2016 11:45	PASS
Bingham,Elden David	California Hazard Communication_SC-158	4/1/2016 9:47	PASS

Birkinshaw,Brian David	California Hazard Communication_SC-158	3/13/2016 8:35	PASS
Black,Ron R	California Hazard Communication_SC-158	3/19/2016 0:00	PASS
Blair,William Scott	California Hazard Communication_SC-158	4/19/2016 11:35	PASS
Blankenship,Mark F	California Hazard Communication_SC-158	3/7/2016 8:59	PASS
Blouin IV,James Marlyn	California Hazard Communication_SC-158	4/13/2016 9:57	PASS
Bogardus,Robert W	California Hazard Communication_SC-158	5/6/2016 10:24	PASS
Brandon,Cynthia W	California Hazard Communication_SC-158	6/16/2016 11:32	PASS
Branson,Michael Loren	California Hazard Communication_SC-158	3/6/2016 1:18	PASS
Brawley,Ester Maria	California Hazard Communication_SC-158	5/25/2016 12:39	PASS
Bremner,Andrew Butler	California Hazard Communication_SC-158	6/8/2016 13:01	PASS
Brendle,Jason Dwight	California Hazard Communication_SC-158	4/6/2016 11:39	PASS
Brew,Sherry Lynn	California Hazard Communication_SC-158	4/4/2016 9:39	PASS
Brewer,Adam James	California Hazard Communication_SC-158	3/22/2016 11:34	PASS
Briggs,Keith A	California Hazard Communication_SC-158	8/23/2016 23:33	PASS
Brown,Eric Robert	California Hazard Communication_SC-158	2/2/2016 15:08	PASS
Brown,Larry V	California Hazard Communication_SC-158	5/9/2016 12:05	PASS
Buffington,John Jefftrey	California Hazard Communication_SC-158	5/4/2016 12:49	PASS
Burchard,Eric Keith	California Hazard Communication_SC-158	4/9/2016 14:27	PASS
Butler,Bret A	California Hazard Communication_SC-158	8/1/2016 19:32	PASS
Caceres,Cesar Gabriel	California Hazard Communication_SC-158	7/13/2016 9:17	PASS
Calahan,Charles R	California Hazard Communication_SC-158	4/8/2016 11:40	PASS
Cannon,Robert Daniel	California Hazard Communication_SC-158	4/4/2016 10:29	PASS

Carlsen,Theodore	California Hazard Communication_SC-158	2/23/2016 17:45	PASS
Carrasco,Taylor L	California Hazard Communication_SC-158	5/31/2016 18:42	PASS
Carroll,Braden D	California Hazard Communication_SC-158	5/30/2016 15:43	PASS
Carter,Bruce Andrew	California Hazard Communication_SC-158	8/18/2016 11:47	PASS
Carter,Monte Ray	California Hazard Communication_SC-158	7/19/2016 3:24	PASS
Cassady,David Al	California Hazard Communication_SC-158	8/30/2016 15:45	PASS
Castillo,Carmen S	California Hazard Communication_SC-158	7/27/2016 18:24	PASS
Castro,Maira	California Hazard Communication_SC-158	3/15/2016 18:27	PASS
Cayanan,Christopher Jaramilla	California Hazard Communication_SC-158	6/1/2016 15:04	PASS
Chadwick III,Neldon James	California Hazard Communication_SC-158	6/24/2016 13:15	PASS
Charania,Nauman	California Hazard Communication_SC-158	5/18/2016 11:40	PASS
Chavez,Fernando	California Hazard Communication_SC-158	4/5/2016 13:10	PASS
Chavez,Joseph Mitchell	California Hazard Communication_SC-158	3/25/2016 10:34	PASS
Chavez,Ruben	California Hazard Communication_SC-158	7/21/2016 12:45	PASS
Chavez,Sonya M	California Hazard Communication_SC-158	3/9/2016 14:16	PASS
Chessum,William Raymond	California Hazard Communication_SC-158	5/17/2016 15:05	PASS
Christian,Connie Alice	California Hazard Communication_SC-158	6/9/2016 14:52	PASS
Christian,Jordan Michael	California Hazard Communication_SC-158	6/8/2016 10:39	PASS
Christianson,Zachary Andrew	California Hazard Communication_SC-158	3/26/2016 4:26	PASS
Chung,Woo R	California Hazard Communication_SC-158	8/3/2016 18:34	PASS
Cisneros,Sabrina Nicole	California Hazard Communication_SC-158	5/31/2016 10:05	PASS
Clark,Justin Reiley	California Hazard Communication_SC-158	5/31/2016 15:43	PASS

Clarke,Aaron J	California Hazard Communication_SC-158	8/15/2016 16:35	PASS
Contreras,Carlos Alberto	California Hazard Communication_SC-158	6/29/2016 11:09	PASS
Cook,Robert Daniel	California Hazard Communication_SC-158	5/2/2016 10:23	PASS
Corbett,Diane Marie	California Hazard Communication_SC-158	8/12/2016 18:05	PASS
Cordova,Vicente	California Hazard Communication_SC-158	8/6/2016 10:40	PASS
Correa,Jorge L	California Hazard Communication_SC-158	3/10/2016 7:43	PASS
Cotton,Justin	California Hazard Communication_SC-158	6/3/2016 10:53	PASS
Cowing,Dane C	California Hazard Communication_SC-158	6/29/2016 7:46	PASS
Coyle,Sean A	California Hazard Communication_SC-158	7/28/2016 16:00	PASS
Croft,Lisa	California Hazard Communication_SC-158	8/1/2016 17:55	PASS
Crooks,John S	California Hazard Communication_SC-158	8/30/2016 12:49	PASS
Crouch,John A	California Hazard Communication_SC-158	8/30/2016 15:49	PASS
Crouch,Nikolai Anthony	California Hazard Communication_SC-158	9/26/2016 11:05	PASS
Crouthers,Thomas Andrew	California Hazard Communication_SC-158	5/26/2016 11:37	PASS
Currie,Donald Keith	California Hazard Communication_SC-158	10/28/2016 9:50	PASS
Dabney Jr,James W	California Hazard Communication_SC-158	7/25/2016 19:18	PASS
Dali,Sarabjyot S	California Hazard Communication_SC-158	6/3/2016 18:20	PASS
Dant,Catherine Diane	California Hazard Communication_SC-158	7/18/2016 10:30	PASS
D'Avella,Sarah Marcela	California Hazard Communication_SC-158	8/24/2016 11:46	PASS
D'Avella,Sarah Marcela	California Hazard Communication_SC-158	5/26/2016 10:15	PASS
Davis,Anthony J	California Hazard Communication_SC-158	9/16/2016 15:18	PASS
Day,Joseph Floyd	California Hazard Communication_SC-158	5/11/2016 16:03	PASS

De La Rosa,Alex L	California Hazard Communication_SC-158	8/23/2016 17:21	PASS
De La Rosa,Alex L	California Hazard Communication_SC-158	4/6/2016 15:14	PASS
Decker,Brandi Jean	California Hazard Communication_SC-158	8/8/2016 10:23	PASS
Delgado,Blaise Roca	California Hazard Communication_SC-158	8/22/2016 0:58	PASS
DeZavala,Kyle Jacob	California Hazard Communication_SC-158	3/2/2016 11:14	PASS
Diaz,Jesse	California Hazard Communication_SC-158	8/29/2016 13:55	PASS
Dimovski,Dusko	California Hazard Communication_SC-158	6/17/2016 16:17	PASS
Dodson,Lucas Wayne	California Hazard Communication_SC-158	3/9/2016 17:33	PASS
Dominguez,Al J	California Hazard Communication_SC-158	2/1/2016 9:09	PASS
Donald,Adam D	California Hazard Communication_SC-158	5/8/2016 19:21	PASS
Duckworth,Steven Murat	California Hazard Communication_SC-158	3/3/2016 13:20	PASS
Dutra,Yolanda	California Hazard Communication_SC-158	6/22/2016 10:54	PASS
Earnshaw,Warren M	California Hazard Communication_SC-158	4/27/2016 12:33	PASS
Eckert,Keith W	California Hazard Communication_SC-158	6/8/2016 10:15	PASS
Ellaboudy,Sameh	California Hazard Communication_SC-158	6/16/2016 11:23	PASS
Ellis,Tyler W	California Hazard Communication_SC-158	9/16/2016 7:57	PASS
Esparza,Teodoro	California Hazard Communication_SC-158	9/9/2016 12:56	PASS
Espindola,Daniel	California Hazard Communication_SC-158	3/18/2016 15:49	PASS
Estes,Garrett Scott	California Hazard Communication_SC-158	9/1/2016 17:32	PASS
Farley,Kennith D	California Hazard Communication_SC-158	2/1/2016 11:54	PASS
Feil,Chris Wayne	California Hazard Communication_SC-158	7/18/2016 21:24	PASS
Fleming II,James Thomas	California Hazard Communication_SC-158	9/14/2016 16:43	PASS

Fletcher,Daniel Paul	California Hazard Communication_SC-158	6/7/2016 16:41	PASS
Fonzo,Amy Lynn	California Hazard Communication_SC-158	8/22/2016 17:50	PASS
Forster,Christopher James	California Hazard Communication_SC-158	4/28/2016 17:00	PASS
Foster,Don L	California Hazard Communication_SC-158	6/9/2016 12:55	PASS
Fox,Jason McMillan	California Hazard Communication_SC-158	6/8/2016 18:49	PASS
Freewalt,Kevin James	California Hazard Communication_SC-158	6/8/2016 11:11	PASS
Fritz,James L	California Hazard Communication_SC-158	3/9/2016 7:12	PASS
Fritz,Maria Elva	California Hazard Communication_SC-158	6/6/2016 14:11	PASS
Fulkerson,Jennifer Lynn	California Hazard Communication_SC-158	8/1/2016 9:58	PASS
Gallardo Jr,Alejandro	California Hazard Communication_SC-158	4/3/2016 21:54	PASS
Gamiz,Edgar Alfonso	California Hazard Communication_SC-158	4/4/2016 7:25	PASS
Gangl,Steven J	California Hazard Communication_SC-158	3/16/2016 17:41	PASS
Gappy,Sandi Mavie	California Hazard Communication_SC-158	6/8/2016 12:18	PASS
Garcia,Alejandro	California Hazard Communication_SC-158	9/8/2016 16:14	PASS
Garcia,Daniel Luis	California Hazard Communication_SC-158	7/30/2016 13:37	PASS
Garcia,Jose A	California Hazard Communication_SC-158	6/23/2016 13:42	PASS
Garcia,Luis	California Hazard Communication_SC-158	8/9/2016 10:39	PASS
Garcia,Stephen D	California Hazard Communication_SC-158	8/1/2016 13:32	PASS
Garland,David Blaine	California Hazard Communication_SC-158	7/25/2016 4:07	PASS
Garner,Ted A	California Hazard Communication_SC-158	7/26/2016 10:09	PASS
Gentry,Dirk G	California Hazard Communication_SC-158	3/4/2016 3:46	PASS
Gonzalez,Sonia	California Hazard Communication_SC-158	8/2/2016 12:14	PASS

Gonzalez,Steve	California Hazard Communication_SC-158	9/28/2016 16:20	PASS
Goodwin,Michael David	California Hazard Communication_SC-158	3/24/2016 1:56	PASS
Gordon,Ryan C	California Hazard Communication_SC-158	8/25/2016 11:55	PASS
Gorman,Donald Leroy	California Hazard Communication_SC-158	4/2/2016 6:01	PASS
Goza,Terry Melvin	California Hazard Communication_SC-158	6/22/2016 15:22	PASS
Grant,Troy Lee	California Hazard Communication_SC-158	7/8/2016 15:35	PASS
Grasse,Scott W	California Hazard Communication_SC-158	8/1/2016 17:42	PASS
Green,Christopher David	California Hazard Communication_SC-158	10/7/2016 15:26	PASS
Greig,Stephen A	California Hazard Communication_SC-158	5/9/2016 13:36	PASS
Griffith,Andrew C	California Hazard Communication_SC-158	8/4/2016 15:17	PASS
Gross,Timothy Garrison	California Hazard Communication_SC-158	4/11/2016 12:18	PASS
Grover,Matthew S	California Hazard Communication_SC-158	4/18/2016 16:33	PASS
Grundstrom,Robert Jacob	California Hazard Communication_SC-158	8/1/2016 18:59	PASS
Guerra,Ernesto	California Hazard Communication_SC-158	3/22/2016 8:48	PASS
Guthery,Macey Elaine	California Hazard Communication_SC-158	5/2/2016 11:11	PASS
Gutierrez,James Josiah	California Hazard Communication_SC-158	8/8/2016 7:36	PASS
Hammond Jr,Kenneth L	California Hazard Communication_SC-158	6/7/2016 14:35	PASS
Hanley,Bryan E	California Hazard Communication_SC-158	12/12/2016 16:53	PASS
Hardisty,Jon Michael	California Hazard Communication_SC-158	8/2/2016 8:38	PASS
Hardwick,Bryan M	California Hazard Communication_SC-158	5/31/2016 17:09	PASS
Harmon,Ronald Henderson	California Hazard Communication_SC-158	3/6/2016 22:55	PASS
Harris,Clint Lee	California Hazard Communication_SC-158	8/2/2016 10:34	PASS

Harris,Randall S	California Hazard Communication_SC-158	7/21/2016 14:50	PASS
Hasan,Qamar	California Hazard Communication_SC-158	4/12/2016 10:22	PASS
Hasselman,John E	California Hazard Communication_SC-158	6/7/2016 13:38	PASS
Heesch,Justin J	California Hazard Communication_SC-158	7/21/2016 15:50	PASS
Hemphill,Stephanie Nicole	California Hazard Communication_SC-158	5/31/2016 15:16	PASS
Henry,William P	California Hazard Communication_SC-158	3/28/2016 2:45	PASS
Hernandez,Erick	California Hazard Communication_SC-158	7/29/2016 9:30	PASS
Hernandez,Robert	California Hazard Communication_SC-158	8/9/2016 15:51	PASS
Hill,Edward C	California Hazard Communication_SC-158	3/30/2016 17:02	PASS
Hill,Johnathon	California Hazard Communication_SC-158	7/28/2016 18:44	PASS
Hinojosa,John	California Hazard Communication_SC-158	9/8/2016 15:53	PASS
Hiser,Daniel Edward	California Hazard Communication_SC-158	9/1/2016 12:49	PASS
Hoang,Thuan Huu	California Hazard Communication_SC-158	7/24/2016 12:42	PASS
Hogan Jr,James M	California Hazard Communication_SC-158	8/1/2016 10:45	PASS
Hohm,Joseph Brandon	California Hazard Communication_SC-158	5/31/2016 15:50	PASS
Holland III,Leon	California Hazard Communication_SC-158	9/15/2016 13:42	PASS
Horton,George	California Hazard Communication_SC-158	7/29/2016 21:01	PASS
Huber,Anthony M	California Hazard Communication_SC-158	9/29/2016 9:35	PASS
Huynh,Anh Lan	California Hazard Communication_SC-158	6/2/2016 12:19	PASS
Huynh,Tuan Minh	California Hazard Communication_SC-158	8/1/2016 15:16	PASS
Iriarte,Estuardo	California Hazard Communication_SC-158	6/1/2016 14:31	PASS
Irwin,Jeannie M	California Hazard Communication_SC-158	6/13/2016 16:02	PASS

Jacobs,Brett A	California Hazard Communication_SC-158	2/5/2016 16:10	PASS
Jark,Eric Richard	California Hazard Communication_SC-158	4/1/2016 4:16	PASS
Jeffries,Richard A	California Hazard Communication_SC-158	6/19/2016 14:39	PASS
Jensen,Kristen M	California Hazard Communication_SC-158	5/23/2016 11:04	PASS
Jimenez,Luis Miguel	California Hazard Communication_SC-158	3/2/2016 11:36	PASS
Johnston Jr,Terry M	California Hazard Communication_SC-158	9/7/2016 8:13	PASS
Jones,Christopher P	California Hazard Communication_SC-158	3/12/2016 17:19	PASS
Jones,Clark Craig	California Hazard Communication_SC-158	2/3/2016 14:50	PASS
Jones,Joshua M	California Hazard Communication_SC-158	1/31/2016 10:20	PASS
Jones,Joshua M	California Hazard Communication_SC-158	4/30/2016 13:17	PASS
Joyce,Matthew R	California Hazard Communication_SC-158	9/22/2016 13:01	PASS
Joyce,Matthew R	California Hazard Communication_SC-158	4/4/2016 11:12	PASS
Junkins Jr,Terry	California Hazard Communication_SC-158	9/26/2016 9:20	PASS
Junkins Jr,Terry	California Hazard Communication_SC-158	3/29/2016 10:47	PASS
Kahrhoff Jr,James Cowton	California Hazard Communication_SC-158	6/29/2016 16:33	PASS
Kellogg,Ryan Powell	California Hazard Communication_SC-158	7/28/2016 14:42	PASS
Kerr,Brian D	California Hazard Communication_SC-158	7/18/2016 17:56	PASS
Khan,Tabrez Ahmed	California Hazard Communication_SC-158	5/2/2016 11:23	PASS
Kidd,Alan	California Hazard Communication_SC-158	5/23/2016 19:21	PASS
King,Ronnie D	California Hazard Communication_SC-158	3/9/2016 8:05	PASS
Klein,Jon W	California Hazard Communication_SC-158	7/15/2016 10:49	PASS
Kochanski,Kyle Christopher	California Hazard Communication_SC-158	2/18/2016 11:18	PASS

Kolar,Christopher Paul	California Hazard Communication_SC-158	6/3/2016 19:24	PASS
Kretzschmar,Robert Patrick	California Hazard Communication_SC-158	4/2/2016 21:07	PASS
Kroner,Drew Kelly	California Hazard Communication_SC-158	3/25/2016 10:57	PASS
Kulkarni,Vijay Balwant	California Hazard Communication_SC-158	4/4/2016 10:46	PASS
Kunstek,Nicholas M	California Hazard Communication_SC-158	3/7/2016 17:13	PASS
Kutivan,William Arthur	California Hazard Communication_SC-158	4/3/2016 20:15	PASS
Kwong,Ryan	California Hazard Communication_SC-158	5/25/2016 18:26	PASS
La Mar,Jacob Dell	California Hazard Communication_SC-158	3/18/2016 19:31	PASS
LaBelle,Brian E	California Hazard Communication_SC-158	5/24/2016 1:26	PASS
Lambert,Stephan A	California Hazard Communication_SC-158	3/12/2016 18:07	PASS
Larderuccio,Denise Michele	California Hazard Communication_SC-158	5/25/2016 17:10	PASS
Larragoitiy Jr,Frank	California Hazard Communication_SC-158	2/27/2016 23:29	PASS
LaRue,Steve E	California Hazard Communication_SC-158	2/7/2016 11:42	PASS
Lavigne,Matthew L	California Hazard Communication_SC-158	2/11/2016 15:10	PASS
Lawrence,Paul Wayne	California Hazard Communication_SC-158	3/31/2016 9:26	PASS
Layus,Katherine Macayan	California Hazard Communication_SC-158	7/5/2016 17:13	PASS
Leal,Timothy Mark	California Hazard Communication_SC-158	7/12/2016 10:28	PASS
Lee,Daniel Jay	California Hazard Communication_SC-158	5/9/2016 16:34	PASS
Lee,Gordon	California Hazard Communication_SC-158	8/1/2016 17:11	PASS
Lee,Michael Peter	California Hazard Communication_SC-158	5/2/2016 13:39	PASS
Lester,Jeffrey G	California Hazard Communication_SC-158	6/3/2016 22:01	PASS
Leutele,Adriane	California Hazard Communication_SC-158	12/8/2016 17:04	PASS

Lim,Jason	California Hazard Communication_SC-158	7/29/2016 11:06	PASS
Lind,William T	California Hazard Communication_SC-158	10/4/2016 21:15	PASS
Lindelius,Mark Evan	California Hazard Communication_SC-158	9/12/2016 14:12	PASS
Linn,Sean David	California Hazard Communication_SC-158	7/30/2016 22:30	PASS
Little,Nathan D	California Hazard Communication_SC-158	9/28/2016 9:26	PASS
Logan,Steven Kain	California Hazard Communication_SC-158	8/5/2016 7:12	PASS
Lopez,Tristen Ashley	California Hazard Communication_SC-158	5/31/2016 20:52	PASS
Lount,Raymond Lee	California Hazard Communication_SC-158	5/31/2016 11:18	PASS
Lozano,Jose L	California Hazard Communication_SC-158	7/19/2016 4:13	PASS
Ma,Cynthia Xiaoming	California Hazard Communication_SC-158	6/25/2016 15:00	PASS
Macedo,Esmeralda Guadalupe	California Hazard Communication_SC-158	6/6/2016 19:48	PASS
Magana,Mark A	California Hazard Communication_SC-158	8/22/2016 8:28	PASS
Malcomb,Joseph Ramon	California Hazard Communication_SC-158	5/20/2016 15:12	PASS
Manicka Karamchandhran,Krishnakumar	California Hazard Communication_SC-158	8/31/2016 13:16	PASS
Manuo,Junior O	California Hazard Communication_SC-158	3/29/2016 5:20	PASS
Marshall IV,Dan Wesley	California Hazard Communication_SC-158	6/13/2016 17:50	PASS
Martin,Edward	California Hazard Communication_SC-158	12/20/2016 9:23	PASS
Martin,Jeffrey L	California Hazard Communication_SC-158	7/27/2016 8:45	PASS
Martinez,Brenda Renee	California Hazard Communication_SC-158	8/24/2016 16:00	PASS
Martinez,Jeff Uwani	California Hazard Communication_SC-158	9/7/2016 16:38	PASS
Martinez,Jose L	California Hazard Communication_SC-158	4/1/2016 11:04	PASS

Martinez,Tomas	California Hazard Communication_SC-158	3/9/2016 20:49	PASS
Mason,Dustin Scott	California Hazard Communication_SC-158	5/9/2016 9:12	PASS
Mather III,Charles Beckman	California Hazard Communication_SC-158	6/9/2016 15:06	PASS
Matthias Jr,Donald A	California Hazard Communication_SC-158	3/2/2016 11:28	PASS
McCord,Timothy Curren	California Hazard Communication_SC-158	8/10/2016 22:30	PASS
McEwan,Barbara B	California Hazard Communication_SC-158	8/1/2016 9:15	PASS
McGinnis,Danny R	California Hazard Communication_SC-158	6/7/2016 5:57	PASS
McGrew,Alan Wilson	California Hazard Communication_SC-158	8/9/2016 17:02	PASS
McKibbon,Justin	California Hazard Communication_SC-158	3/18/2016 1:17	PASS
Meeker,Max Michael	California Hazard Communication_SC-158	5/16/2016 12:03	PASS
Meeker,Nichole Wilbert	California Hazard Communication_SC-158	6/14/2016 11:10	PASS
Melendez,Hector	California Hazard Communication_SC-158	7/18/2016 11:48	PASS
Melgar,Richard A	California Hazard Communication_SC-158	8/2/2016 15:19	PASS
Melnar,Michael Edward	California Hazard Communication_SC-158	5/2/2016 13:47	PASS
Memarzadeh,Arash	California Hazard Communication_SC-158	5/26/2016 12:17	PASS
Mena,Jason Jacinto	California Hazard Communication_SC-158	5/25/2016 11:11	PASS
Mendes,Christopher Andrew	California Hazard Communication_SC-158	5/24/2016 9:42	PASS
Mercier,David Joseph	California Hazard Communication_SC-158	6/1/2016 11:07	PASS
Mitchell,Jonathan D	California Hazard Communication_SC-158	6/2/2016 1:04	PASS
Mock,Steve A	California Hazard Communication_SC-158	2/21/2016 18:08	PASS
Monji,Kristy K	California Hazard Communication_SC-158	5/8/2016 0:42	PASS
Montijo,Richard A	California Hazard Communication_SC-158	2/26/2016 10:31	PASS

Monzon,Joyce Ann	California Hazard Communication_SC-158	7/12/2016 12:35	PASS
Mooney,Jess Dalton	California Hazard Communication_SC-158	7/30/2016 22:17	PASS
Moopen,Siraj	California Hazard Communication_SC-158	5/25/2016 12:01	PASS
Mosher,Annie Gabrielle	California Hazard Communication_SC-158	6/20/2016 18:39	PASS
Mulvaney,Scott R	California Hazard Communication_SC-158	4/29/2016 17:25	PASS
Nacorda,Lloyd G	California Hazard Communication_SC-158	6/2/2016 11:46	PASS
Navarro,Reynaldo	California Hazard Communication_SC-158	6/17/2016 19:18	PASS
Nelson,Steven Charles	California Hazard Communication_SC-158	5/25/2016 10:22	PASS
Newitt,Karen L	California Hazard Communication_SC-158	6/23/2016 14:27	PASS
Nguyen,Andy C	California Hazard Communication_SC-158	5/23/2016 15:13	PASS
Nguyen,David	California Hazard Communication_SC-158	4/8/2016 10:14	PASS
Ngwe,Ezeanyi	California Hazard Communication_SC-158	6/23/2016 12:59	PASS
Niebuhr,Dean Eugene	California Hazard Communication_SC-158	5/8/2016 20:38	PASS
Nobriga,Jeff R	California Hazard Communication_SC-158	8/24/2016 13:08	PASS
Ochoa,Edgar M	California Hazard Communication_SC-158	3/31/2016 10:23	PASS
Oliver,Wayne S	California Hazard Communication_SC-158	4/19/2016 16:19	PASS
Olson,Kevin D	California Hazard Communication_SC-158	3/4/2016 0:09	PASS
Olson,Kristopher Kevin	California Hazard Communication_SC-158	8/4/2016 23:18	PASS
O'Rear,Scott	California Hazard Communication_SC-158	8/1/2016 11:38	PASS
Ormberg,Chant Austin	California Hazard Communication_SC-158	3/16/2016 5:11	PASS
Orozco Jr,Martin	California Hazard Communication_SC-158	8/2/2016 16:26	PASS
O'Sullivan,Kevin Paul	California Hazard Communication_SC-158	9/19/2016 2:35	PASS

Pacis,Carlos J	California Hazard Communication_SC-158	2/3/2016 3:34	PASS
Padgett,Kenneth Steven	California Hazard Communication_SC-158	3/28/2016 3:21	PASS
Park,Kimiko K	California Hazard Communication_SC-158	7/25/2016 12:33	PASS
Pate,Lee E	California Hazard Communication_SC-158	7/31/2016 23:12	PASS
Payne,William Joe	California Hazard Communication_SC-158	7/31/2016 23:01	PASS
Pearson,Matthew J	California Hazard Communication_SC-158	8/11/2016 11:35	PASS
Perry,Mathew J	California Hazard Communication_SC-158	8/24/2016 16:35	PASS
Perry,Paul Anthony	California Hazard Communication_SC-158	4/25/2016 12:45	PASS
Persinger,Harold Dean	California Hazard Communication_SC-158	6/2/2016 19:40	PASS
Perz,Jason R	California Hazard Communication_SC-158	3/24/2016 9:55	PASS
Peters,Justin James	California Hazard Communication_SC-158	8/26/2016 18:52	PASS
Pham,Cuong Manh	California Hazard Communication_SC-158	7/1/2016 18:41	PASS
Pham,Peter Duy Van	California Hazard Communication_SC-158	7/25/2016 10:49	PASS
Pickett,Michael Anthony	California Hazard Communication_SC-158	3/29/2016 11:44	PASS
Pirayoff,Allison D	California Hazard Communication_SC-158	7/6/2016 17:04	PASS
Plant,Charles P	California Hazard Communication_SC-158	8/11/2016 10:50	PASS
Poe,Jamal Lanier	California Hazard Communication_SC-158	9/3/2016 12:42	PASS
Polk,Keith R	California Hazard Communication_SC-158	9/29/2016 8:42	PASS
Poole,Jeffrey William	California Hazard Communication_SC-158	7/18/2016 17:25	PASS
Pruet,James Andrew	California Hazard Communication_SC-158	6/1/2016 12:49	PASS
Purificato,Marisa Elizabeth	California Hazard Communication_SC-158	2/29/2016 11:45	PASS
Quist,Morgan Anne	California Hazard Communication_SC-158	5/31/2016 13:52	PASS

Rai,Pragati	California Hazard Communication_SC-158	10/13/2016 15:23	PASS
Ramirez,Ignacio	California Hazard Communication_SC-158	3/11/2016 13:44	PASS
Ramirez,Jorge	California Hazard Communication_SC-158	8/2/2016 16:25	PASS
Ramos,Noel J	California Hazard Communication_SC-158	3/18/2016 0:52	PASS
Rams,Cheryl L	California Hazard Communication_SC-158	8/1/2016 10:53	PASS
Ramsey,Katherine L	California Hazard Communication_SC-158	12/30/2016 23:40	PASS
Rauschenberger,James P	California Hazard Communication_SC-158	3/9/2016 18:35	PASS
Rayson,Nolan James	California Hazard Communication_SC-158	8/2/2016 13:59	PASS
Reed,Justin Carl	California Hazard Communication_SC-158	9/6/2016 23:07	PASS
Reed,Ryan R	California Hazard Communication_SC-158	4/8/2016 12:46	PASS
Reeser,Linda L	California Hazard Communication_SC-158	6/17/2016 16:19	PASS
Referente,Ryan P	California Hazard Communication_SC-158	8/25/2016 14:39	PASS
Reiner,Brit Michael	California Hazard Communication_SC-158	6/2/2016 12:22	PASS
Reinking,Robert A	California Hazard Communication_SC-158	2/1/2016 12:33	PASS
Reischer,Elizabeth Mendoza	California Hazard Communication_SC-158	6/2/2016 11:26	PASS
Reith,Robin C	California Hazard Communication_SC-158	4/5/2016 15:27	PASS
Rendon,Josafat	California Hazard Communication_SC-158	3/31/2016 21:38	PASS
Renn,Robert Nolan	California Hazard Communication_SC-158	4/8/2016 0:05	PASS
Rico,Joseph D	California Hazard Communication_SC-158	3/16/2016 12:27	PASS
Ritts,Linda R	California Hazard Communication_SC-158	8/3/2016 9:40	PASS
Rivard,Cambria Christine	California Hazard Communication_SC-158	7/29/2016 9:59	PASS
Roberts,Jarred James	California Hazard Communication_SC-158	12/21/2016 12:51	PASS

Roberts,Richard J	California Hazard Communication_SC-158	8/26/2016 13:04	PASS
Robledo,Ray	California Hazard Communication_SC-158	9/30/2016 10:14	PASS
Rodriguez,David Anthony	California Hazard Communication_SC-158	3/2/2016 19:41	PASS
Rodriguez,Emilio	California Hazard Communication_SC-158	6/14/2016 15:38	PASS
Rogers,Neil S	California Hazard Communication_SC-158	3/29/2016 16:07	PASS
Romero Jr,Pedro Lozano	California Hazard Communication_SC-158	8/17/2016 17:29	PASS
Rosas,German	California Hazard Communication_SC-158	2/7/2016 0:24	PASS
Roshanzamir,Amir Ali	California Hazard Communication_SC-158	7/1/2016 10:34	PASS
Roubaud,Julien Frederic	California Hazard Communication_SC-158	4/4/2016 13:00	PASS
Routt,Mark J	California Hazard Communication_SC-158	9/19/2016 16:48	PASS
Rowden,Mark A	California Hazard Communication_SC-158	6/26/2016 9:48	PASS
Royster II,Ronald D	California Hazard Communication_SC-158	7/11/2016 14:27	PASS
Salas,Francisco M	California Hazard Communication_SC-158	3/22/2016 11:42	PASS
Salceda,Edward C	California Hazard Communication_SC-158	8/13/2016 10:07	PASS
Salverson,Kaitlyn R	California Hazard Communication_SC-158	4/20/2016 18:47	PASS
Samperio,Vicente M	California Hazard Communication_SC-158	3/9/2016 18:45	PASS
Sanchez,Salvador	California Hazard Communication_SC-158	8/2/2016 15:32	PASS
Sanders,Kathryn A	California Hazard Communication_SC-158	5/18/2016 18:55	PASS
Schlessinger,Aaron B	California Hazard Communication_SC-158	3/21/2016 1:34	PASS
Scott,Tosha Cherece	California Hazard Communication_SC-158	8/8/2016 16:12	PASS
Sebag,Robert	California Hazard Communication_SC-158	4/4/2016 14:31	PASS
Seid,Christopher Ryan	California Hazard Communication_SC-158	7/26/2016 16:44	PASS

Seidner,Karla Kay	California Hazard Communication_SC-158	8/31/2016 10:42	PASS
Sharma,Sanjay	California Hazard Communication_SC-158	7/18/2016 18:16	PASS
Shary Jr,Christopher M	California Hazard Communication_SC-158	9/21/2016 23:25	PASS
Shatzel,Christopher Michael	California Hazard Communication_SC-158	5/10/2016 11:18	PASS
Singh,Raj	California Hazard Communication_SC-158	6/3/2016 10:34	PASS
Sloan,Michael D	California Hazard Communication_SC-158	7/5/2016 14:32	PASS
Sly,Rebecca A	California Hazard Communication_SC-158	7/12/2016 14:24	PASS
Smith,William Tell	California Hazard Communication_SC-158	3/3/2016 2:18	PASS
Soto,Danny A	California Hazard Communication_SC-158	9/22/2016 11:29	PASS
Soto,James Jason	California Hazard Communication_SC-158	2/9/2016 10:40	PASS
Soutsos,Richard	California Hazard Communication_SC-158	6/14/2016	COMPLETE
Stephens III,James A	California Hazard Communication_SC-158	7/12/2016 12:03	PASS
Steward,Grady	California Hazard Communication_SC-158	3/11/2016 10:05	PASS
Stilwell,Meagan R	California Hazard Communication_SC-158	4/4/2016 18:24	PASS
Stoneburner,David N	California Hazard Communication_SC-158	12/27/2016 11:42	PASS
Stromberg,Evan Michael	California Hazard Communication_SC-158	7/13/2016 15:43	PASS
Suter,Amanda Marie	California Hazard Communication_SC-158	5/31/2016 15:12	PASS
Swetalla,Jamie Lee Ann	California Hazard Communication_SC-158	8/8/2016 13:02	PASS
Tackett,Troy N	California Hazard Communication_SC-158	3/13/2016 21:29	PASS
Tafoya,William Shannon	California Hazard Communication_SC-158	3/20/2016 7:18	PASS
Talamoa,Jonathan Suluai	California Hazard Communication_SC-158	9/30/2016 14:59	PASS
Talavera,Jorge Arturo	California Hazard Communication_SC-158	8/9/2016 16:36	PASS

Tanaka,Larry G	California Hazard Communication_SC-158	3/2/2016 13:15	PASS
Teasley IV,Charles Jones	California Hazard Communication_SC-158	9/21/2016 8:13	PASS
Tegowski,Steven M	California Hazard Communication_SC-158	10/12/2016 14:28	PASS
Tello,Armando	California Hazard Communication_SC-158	12/29/2016 12:11	PASS
Terrazas,Jesse	California Hazard Communication_SC-158	3/11/2016 13:13	PASS
Thompson,Barry Dale	California Hazard Communication_SC-158	3/17/2016 15:38	PASS
Thompson,Jeffrey D	California Hazard Communication_SC-158	3/26/2016 3:51	PASS
Thorner,Kurt	California Hazard Communication_SC-158	5/23/2016 10:37	PASS
Tilley,Larry L	California Hazard Communication_SC-158	8/5/2016 14:31	PASS
Tomkinson,Robert Matthew	California Hazard Communication_SC-158	2/26/2016 17:21	PASS
Toreja,Joel Semira	California Hazard Communication_SC-158	8/22/2016 18:22	PASS
Torpey,John Michael	California Hazard Communication_SC-158	6/1/2016 12:32	PASS
Treitz,Justin P	California Hazard Communication_SC-158	5/25/2016 14:10	PASS
Triola Jr,Charles Joseph	California Hazard Communication_SC-158	4/8/2016 12:56	PASS
Turner,Thomas	California Hazard Communication_SC-158	6/1/2016 17:24	PASS
Ure,Eric	California Hazard Communication_SC-158	2/9/2016 2:06	PASS
Uribe,Roman Gabriel	California Hazard Communication_SC-158	2/10/2016 1:11	PASS
Valasedes,Vasilios Ray	California Hazard Communication_SC-158	8/3/2016 16:47	PASS
Valdes-Camin,Cristobal	California Hazard Communication_SC-158	6/2/2016 11:14	PASS
Valdivia,Simon	California Hazard Communication_SC-158	5/7/2016 11:26	PASS
Valencia,Abraham Vincent	California Hazard Communication_SC-158	9/16/2016 15:00	PASS
Valenzuela,Thomas	California Hazard Communication_SC-158	5/8/2016 16:03	PASS

Van Zyl,Daniel Walter	California Hazard Communication_SC-158	5/31/2016 11:40	PASS
VanWhy,Arthur L	California Hazard Communication_SC-158	3/13/2016 17:44	PASS
Vargas,Joseph T	California Hazard Communication_SC-158	8/21/2016 0:51	PASS
Varma,Aditya	California Hazard Communication_SC-158	5/25/2016 10:11	PASS
Velker,Jeffrey Scott	California Hazard Communication_SC-158	8/4/2016 15:51	PASS
Ventura,Eliseo Campos	California Hazard Communication_SC-158	8/24/2016 15:47	PASS
Vicencio,Phillip Edward	California Hazard Communication_SC-158	2/10/2016	PASS
Villa,Oliver	California Hazard Communication_SC-158	2/2/2016 7:59	PASS
Villa-Marroquin,Bruno	California Hazard Communication_SC-158	3/28/2016 19:00	PASS
Villarreal,Moises	California Hazard Communication_SC-158	9/16/2016 13:42	PASS
Virto,Johnny Ruben	California Hazard Communication_SC-158	3/11/2016 10:11	PASS
Vorce,Jason Lee	California Hazard Communication_SC-158	8/20/2016 7:24	PASS
Wagerer,Timothy J	California Hazard Communication_SC-158	7/30/2016 17:05	PASS
Wakatake,Marc T	California Hazard Communication_SC-158	7/28/2016 17:20	PASS
Walker,Ted W	California Hazard Communication_SC-158	5/2/2016 17:47	PASS
Walter,Jack Warren	California Hazard Communication_SC-158	6/1/2016 18:38	PASS
Walters,Christopher Clayton	California Hazard Communication_SC-158	9/6/2016 14:42	PASS
Walters,Vincent C	California Hazard Communication_SC-158	3/31/2016 10:23	PASS
Wang,Mei-Jen	California Hazard Communication_SC-158	7/18/2016 16:55	PASS
Wang,Phebe Shaw	California Hazard Communication_SC-158	4/4/2016 9:24	PASS
Wardak,Omar	California Hazard Communication_SC-158	5/31/2016 15:27	PASS
Watson,Daniel James	California Hazard Communication_SC-158	3/12/2016 5:50	PASS

Weaver,Senem	California Hazard Communication_SC-158	4/20/2016 10:49	PASS
Weinfurther,Susan Anne	California Hazard Communication_SC-158	6/8/2016 20:06	PASS
Wells,Mark D	California Hazard Communication_SC-158	3/26/2016 18:41	PASS
Wen,Steven Hsiang	California Hazard Communication_SC-158	6/8/2016 11:34	PASS
Wesson,James Parks	California Hazard Communication_SC-158	9/20/2016 18:48	PASS
West,Rodney R	California Hazard Communication_SC-158	8/5/2016 21:32	PASS
White,Glenn Christian	California Hazard Communication_SC-158	7/23/2016 18:34	PASS
White,Richard M	California Hazard Communication_SC-158	4/9/2016 14:34	PASS
White,Russell John	California Hazard Communication_SC-158	6/16/2016 10:51	PASS
Whittington,David B	California Hazard Communication_SC-158	6/14/2016 12:13	PASS
Williams Jr,Michael Anthony	California Hazard Communication_SC-158	7/1/2016 9:01	PASS
Williams,Barry K	California Hazard Communication_SC-158	2/9/2016 11:50	PASS
Willis,Maxwell John	California Hazard Communication_SC-158	6/30/2016 12:18	PASS
Wilson,J Dale	California Hazard Communication_SC-158	3/7/2016 12:15	PASS
Winslow,Everett L	California Hazard Communication_SC-158	3/20/2016 1:18	PASS
Woo,Dan Hoy	California Hazard Communication_SC-158	5/30/2016 23:47	PASS
Wood,Alexander G	California Hazard Communication_SC-158	6/1/2016 11:48	PASS
Wright,Bethany A	California Hazard Communication_SC-158	6/16/2016 11:37	PASS
Wright,Debra Marie	California Hazard Communication_SC-158	8/8/2016 18:50	PASS
Wright,Elizabeth J	California Hazard Communication_SC-158	7/18/2016 17:09	PASS
Yarlagadda,Kiran	California Hazard Communication_SC-158	8/31/2016	PASS
Yarrish,Gary A	California Hazard Communication_SC-158	8/1/2016 20:51	PASS

Ybarra,Mark Arthur	California Hazard Communication_SC-158	7/23/2016 20:48	PASS
Yeung,Jimyau Jimmy	California Hazard Communication_SC-158	5/16/2016 16:26	PASS
Zhang,Hong Juan	California Hazard Communication_SC-158	7/11/2016 13:19	PASS
Zinskey,Steven M	California Hazard Communication_SC-158	9/3/2016 3:17	PASS
Zuniga,Rene S	California Hazard Communication_SC-158	10/3/2016 11:35	PASS
Zylstra,Paul M	California Hazard Communication_SC-158	3/21/2016 15:05	PASS



STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Field Huntington Beach

Sec. 34, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03407)	7	12-11-20							
		5-25-21							
		6-4-91 A							
Huntington A (059-03408)	8	2-10-21					6-18-91		
		1-11-90 a							
Huntington A (059-03412)	12	6-16-21							
Huntington A (059-03414)	14	8-27-21							
Huntington A (059-03415)	15	8-27-21						1-3-89 ft.	Derrick burned 10-4-45.
		2-25-61 a. 11-25-88 ft.							

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03416)	16	✓ 9-12-21						6-28-30	
Huntington A (059-03417)	17	✓ 10-3-21					8-7-90		
Huntington A (059-03418)	18	✓ 6-5-22						5-6-30	
Huntington A (059-03420)	20	✓ 11-25-22					8-31-90		
Huntington A (059-03428)	27	✓ 10-8-24					4-5-91	4-5-46	
Huntington A (059-03429)	28	✓ 5-7-25						6-26-5	
Huntington A (059-03431)	30	✓ 1-11-26							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03432)	31	6-1-26 8-22-90 a						1-16-91 fe	
Huntington A (059-03434)	33	9-8-30 1-11-90 a						1-3-91 fe	
Huntington A (059-03435)	34	10-6-37 1-18-90 a					1-7-91 fe		
Huntington A (059-03436)	35	2-19-41 1-18-90 a						1-3-91 fe	
Huntington A (059-03437)	36	5-6-41 1-5-90 a					12-3-90 fe		
Huntington A (059-03466)	71	8-10-44 10-20-89 a					7-7-90 fe		
Huntington A (059-00128)	75	1-16-45 1-5-90 a					3-26-91 fe		Water Flood

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03473)	79	11-4-46 10-20-89 a 1-16-91 LL	LL				7-22-91 fl	fl	
Huntington A (059-03475)	81	12-26-46 5-25-90 a 12-7-90 LL a 1-16-91 LL	LL				7-22-91 fl	fl	
Huntington A (059-03482)	91	10-6-48 5-25-90 a						1-3-91 fl	
Huntington A (059-03484)	94	4-14-49 3-28-75 Surf 10-11-89 a	Surf				6-9-90 fl	fl	3½ to Hond
Huntington A (059-03485)	95	5-2-50 1-16-91 LL	LL				8-7-90 fl	fl	Pint. Hond
Huntington A (059-03487)	97	9-1-50 10-5-89 a					8-14-90 fl	fl	
Huntington A (059-03488)	98	10-23-50 1-18-90 a						fl 1-3-91	

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-00130)	100	3-7-51 2-28-75 chng 1-18-91 a							H. T. Plugged 1-3-91 fc
Huntington A (059-03493)	104	11-1-51 5-2-90 a						7-22-91 fc	
Huntington A (059-03503)	114	4-24-53 1-18-90 a						7-22-91 fc	
Huntington A (059-03523)	138	4-15-59 11-30-89 new 4-30-90 a						6-18-91 fc	
Huntington A (059-03530)	143	11-18-59 9-8-89 a 4-10-92 sc						3-14-90 fc 9-15-1994 fc	
Huntington A (059-03531)	145	3-3-60 10-20-89 a						7-22-90 fc	
Huntington A (059-03535)	150	10-25-60 9-8-89 a						7-22-90 fc	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03538)	153	✓ 3-13-61 5-25-61 a					6-18-91	fc	
Huntington A (059-03542)	157	✓ 3-29-61 4-30-90 a					12-27-91	fc	
Huntington A (059-03545)	160	✓ 8-24-61 4-30-90 a					3-27-91	fc D	
Huntington A (059-03565)	184	✓ 12-12-61 4-30-90 a					12-30-91	fc D	
Huntington A (059-03569)	188	✓ 1-24-62 10-20-89 a					7-27-90	fc D	
Huntington A (059-03578)	197	✓ 4-12-62 1-11-90 a						1-3-91 fc	
Huntington A (059-03586)	207	✓ 7-13-62 1-12-90 a					8-7-90	fc D	

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03589)	210	7-13-62 4-11-90 a					4-22-91	fc	
Huntington A (059-03590)	211	7-31-62 9-11-90 a					12-27-91	fc	
Huntington A (059-03592)	213	8-24-62 5-25-90 a 12-19-90 a					12-27-91	fc	
Huntington A (059-03600)	221	11-28-62 9-11-90 a					6-18-91	fc	
Huntington A (059-03604)	225	3-19-63 10-30-91 CA					7-27-90	fc	
Huntington A (059-03615)	236	6-11-63 5-2-90 a					12-27-91	fc	
Huntington A (059-03621)	242	11-26-63 [illegible]					1-8-91	fc	

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03726 3-63 5M △ SPO

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Field Huntington Beach

Sec. 34, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A	246	3-2-64 ✓					1-27-90	ff	
(059-03624)		1-5-90 a							
Huntington A	247	1-28-64 ✓					12-27-91	ff	
(059-03625)		5-2-90 a							
Huntington A	253	5-19-64 ✓					7-27-90	ff	
(059-03630)		11-20-89 a	a						
Huntington A	255	7-17-64 ✓					8-31-90	ff	
(059-03632)		8-31-89 a							
Huntington A	263	11-25-64 ✓					8-14-90		
(059-03639)		4-21-65 L 11-5-89 a					ff		
Huntington A	266	2-9-65 ✓					4-27-90	ff	
(059-03641)		8-31-89 a							

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Field Huntington Beach

Sec. 34, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03643)	268	1-11-65					3-26-91 fe		
Huntington A (059-03646)	271	1-12-65 5-21-71 dw + fe 4-19-76 Comp 1-5-90 a						1-8-91 fe	Within Fl. Bd.
Huntington A (059-03647)	273	2-10-65 10-20-89 a					1-27-90 fe		
Huntington A (059-03648)	274	3-22-65 8-21-89 a					5-30-90 fe		
Huntington A (059-03649)	276	4-30-65 8-21-89 a					8-14-90	fe	
Now "Huntington A-J.C.L.W." 1; (059-03230)	279-A	see new page. 6-14-65 7-19-65 a dw 5-15-67 e comp							Water Flood
Formerly "Huntington A"	279;								
Huntington A (059-00139)	280	7-14-65 6-5-89 a						1-16-91 fe	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03654)	283-A	7-23-65 9-2-65 8-21-89 a	✓				4-13-90	fc	
Formerly "Huntington A"	283;								
Huntington A (059-03656)	286	9-2-65 8-21-89 a					3-14-90	fc	State "1" rel
Huntington A (059-03657)	287	11-15-65 8-21-89 a					4-5-91	fc	
Huntington A (059-03658)	290	10-25-65 5-2-90 a						1-3-91 fc	
Huntington A (059-03659)	291	10-11-65 5-2-90 a	✓				4-5-91	fc	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
							3-	11-91	
Huntington A - Bolsa L.W. (059-00150)	2	7-15-66 5-25-40a						fl	
(Formerly "Bolsa-Huntington A L.W." 2;									

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A-C	LW 1-A	✓ 4-5-65					5-30-91	fc	
(059-03665)-01 Formerly "Huntington A-C" LW 1;		4-17-81 rdr. 9-5-8 rcvd 9-18-90 1-8-91 ltr							

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington A-J.C.L.W.	1	03230	6-14-65			12-27-91			Water Flood
			8-30-90 a						

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03582)	202	6-14-62 ✓ 7-19-71 9-11-90a					12-26-91	fl	
Huntington A (059-03583)	203	1-28-65 ✓ 9-23-71 11-17-71 1-5-90a					3-14-91	JE	
Huntington A (059-03584)	204	5-15-62 ✓ 8-9-71a					3-21-91	fl	
Huntington A (059-03585)	205	6-18-62 ✓ 9-16-71 7-26-89a					3-11-91	fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A	206	~~6-18-62~~ ✓	Cancelled letter				2-3-66.		D.T. 7-1-66 2-15-67
Huntington A (059-03587)	208	7-2-62 ✓					5-11-90	fl ✓	
Huntington A (059-03588) Formerly "Huntington B"	209	6-8-62 ✓ 6-25-62 5-9-66 cwf 7-11-89 a					4-22-91	fl	Water Flood
Huntington A (059-03591)	212	7-2-62 ✓ 9-7-83 new 3-19-84 new 1-5-90a					7-27-90	fl ✓	
Huntington A (059-03593)	214	7-17-62 ✓ 5-23-84a					4-13-90	fl	
Huntington A (059-03594)	215	11-7-62 ✓ 11-10-83 new 5-25-90 a						1-2-91 fl	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Huntington A (059-03595)	216	8-23-62 9-28-89 a					12-26-91	fl	
Huntington A (059-03596)	217	12-24-62 ✓ 6-90 a					3-8-91	fl	
Huntington A (059-03597)	218	10-24-62 ✓ 10-11-89 a						1-2-91 fl	
Huntington A (059-03598)	219	11-14-62 ✓ 9-11-90 a					6-6-91	fl	
Huntington A (059-03599)	220	11-28-62 ✓ 9-21-67 ac 2-2-88 a					10-3	fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03601)	222	✓ 1-2-63 1-4-90a					7-27-90 fl	fl	
Huntington A (059-03602)	223	✓ 1-28-63 9-11-90a					4-28-92 fl	fl	
Huntington A (059-03603)	224	✓ 2-20-63 1-18-90a					9-5-90 fl		
Huntington A (059-03605)	226	✓ 2-18-63 1-12-90a					8-14-90 fl	fl	
Huntington A (059-03606)	227	✓ 3-27-63 5-25-90a					10-26-91 fl	fl	
Huntington A (059-03607)	228	✓ 4-16-63 1-31-86 1-4-90a						1-2-91 fl	
Huntington A (059-03608)	229	✓ 4-2-63 9-11-90a					6-6-91 fl	fl	
Huntington A (059-03609)	230	✓ 5-2-63 3-6-81 5-2-90a					6-6-91 fl	fl	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Huntington A (059-03610)	231	✓ 6-3-63 4-15-[illegible]					3-11-91 fl		Water Flood
Huntington A (059-03611)	232	✓ 5-3-63 12-3-63 a ~ 2-4-64 a ~ 7-16-64 a 9-8-89 a					10-20-89 fl		Water Flood
			Cancelled - Letter 8-21-64						
Huntington A (059-03612)	233	✓ 4-9-63 1-11-90 a							
Huntington A (059-03613)	234	✓ 4-25-63 1-19-90 a					3-8-91 fl		
Huntington A (059-03614)	235	✓ 4-25-63 [illegible] 1-12-90 a					7-27-90 fl		[illegible]

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Huntington A (059-03616)	237	✓ 6-17-63 5-2-90a						3-7-91 fe	
Huntington A (059-03617)	238	✓ 7-15-63 5-2-90a						6-6-91 fe	
Huntington A (059-03618)	239	✓ 6-24-63 5-10-90a						3-11-91 fe	
Huntington A (059-03619)	240	✓ 8-1-63 10-14-91 c						3-8-91 fe	

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03620)	241	✓ 9-30-63 1-18-90 a					3-8-91	ll	
Huntington A (059-00136)01	243-A	✓ 10-23-63 2-17-66 a ✓ ~~6-12-81 ROR~~ Comp 1-18-90 a			10-12-63		3-8-91	ll	
Huntington A (059-03622)	244	✓ 12-6-63 3-19-64 a new zone 10-24-64 ✓ + new 3-5-[illegible] a new zone 4-22-84 a					4-4-91	ll	Water Flood Well
Huntington A (059-03623)	245	✓ 1-6-64 4-3-90 a					12-26-91	ll	

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Well Designation	Well No.	Notices (Date Reg'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03626)	248	✓ 2-14-64; 5-12-64 a; 4-26-90 a; 1-19-90 a					3-20-91 fe	D	Water Flood
Huntington A (059-00137)	249	✓ 2-20-64; 3-16-64 a; 5-2-90 a					3-7-91 fe	D	
Huntington A (059-03627)	250	✓ 3-16-64; 1-18-90 a					8-14-90 fe		
Huntington A (059-03628)	251	✓ 3-18-64; 12-4-67 p; 1-5-90 a					8-14-90 fe		
Huntington A (059-03629)	252	✓ 4-8-64; illegible					7-27-90 fe	I	
Huntington A (059-03631)	254	✓ 6-25-64; 9-12-illegible							

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Field Huntington Beach

Sec. 3, T. 6 S., R. 11 W. S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A	256	✓ 7-20-64					3-7-91	fl	
(059-03633)		7-30-71	P	ao					
		7-30-71							
Huntington A	257	✓ 8-4-64					3-11-91	fl	
(059-03634)		5-2-90a							
Huntington A	258	✓ 8-13-64					3-8-91	fl	
(059-03635)		4-23-69a							
Huntington A	259	✓ 1-11-65					4-5-91	fl	
(059-03636)		1-18-90a							

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03637)	261	✓ 10-20-64 1-11-90 12-19-90 a					12-26-91	fc	
Huntington A (059-03638)	262	✓ 10-22-64 1-18-90 a					12-26-91	fc	
Huntington A (059-00369)	264	✓ 12-4-64 2-6-67 ac 6-9-81 a						7-[illegible]	
Huntington A (059-03640)-01	265-A	✓ 11-30-64 2-18-[illegible] 10-24-[illegible] 4-3-90a					3-8-91	fc	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A ~~(059-03642)~~ (059-03642-01)	267-A	12-7-64 11-16-77 NCW					3-8-91	3-8-91 fl	
Huntington A (059-03643)	268	1-11-65 1-12-90 a	In Sec. 34-6S-11W. Corr. letter 1-15-65				3-26-91	3-26-91 fl	
Huntington A (059-03644)	269	1-4-65 2-3-77 NCW 1-18-90 a					4-4-91	4-4-91 fl	
Huntington A (059-03645)	270	12-16-64 ~~2-24-68 acc~~ 12-18-68 ncw ~~5-24-89 a~~					6-19-90	6-19-90 fl	Water Flood Well

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-00138)	275	✓ 3-8-65; 3-30-65 plan; 5-2-88 a					2-9-91 fl		
Huntington A (059-03650)	277	✓ 6-21-65; 1-5-90a					5-7-91 fl		
Huntington A (059-03651)	278	✓ 7-21-65; 1-5-90a					8-14-90 fc		
Huntington A (059-03652)	281	✓ 7-7-65; 5-2-90a					12-26-91 fl		
Huntington A (059-03653)	282	✓ 8-19-65; 5-9-71 Conv. to Steam Injection; 5-13-71 Inj.; 6-22-71 Inj.; 7-1-75 plan; 8-5-76 a. L; 1-18-90a					4-22-91 fl		Water Flood Steam Injection
Huntington A (059-03655)	285	✓ 8-10-65; 5-2-90a; 1-8-91 plan					6-6-91 fc		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-00140)	288	✓ 10-4-65 4-22-66 a 4-6-90 a 12-24-90 a					12-26-91 fe		
Huntington A (059-00141)	289	✓ 10-4-65 12-15-66 a 1-18-90 a					3-7-91 fe		
Huntington A (059-03660)	292	✓ 9-21-65 5-25-90 a					3-11-91 fe		
Huntington A (059-03661)	293	✓ 10-5-65 1-17-90 a					3-7-91 fe		
Huntington A (059-00427)	294	✓ 10-27-65 1-21-66 a 9-11-90 a					6-6-91 fe		
Huntington A (059-00142)	295	✓ 11-8-65 11-2-65 a 2-21-66 a 3-3-77 a 9-30-77 a 4-6-90 a					3-7-91 fe		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A	296	12-2-65					8-14-90		
(~~037~~ 059-03662)		5-13-72 ec 1-29-73 ec					ll		
		1-5-90a							
Huntington A	297	2-15-66					6-6-91		
(059-00143)		9-11-90a					ll		
Huntington A	298	3-15-66					10-30-89		
(059-03663)		3-21-68 ec 8-2-88 a					ll		
Huntington A	299	3-8-66					4-22-91		
(059-03664)		10-11-90a					ll		
Huntington A	300-A	4-6-66							Water-Flood.
(059-03229)		1-19-68 ec 6-10-71 ec ~~5-23-72 ec~~							
		~~10-16-86 a~~ Comp. 11-29-82 12-14-89 a					3-8-91		
							ll		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-00144)	301	4-20-66 ✓ 4-6-90a					3-8-91 fl	✓	
Huntington A (059-00145)	302	5-18-66 ✓ 7-25-66a 11-25-80a						L 4-84	
Huntington A (059-00146)-01 Formerly "Huntington A" 303;	303-A	6-6-66 ✓ 4-17-81rdr 4-3-90a					3-8-91 fl	✓	
Huntington A (059-00147)	304	8-24-66 ✓ 4-22-89a					3-8-91 fl	✓	
Huntington A (059-00148)-01 Formerly "Huntington A" 305;	305-A	9-12-66 ✓ 4-17-81rdr 4-6-90a					3-8-91 fl	✓	
Huntington A (059-00149)	306	10-21-66 ✓					3-7-91 fl	✓	
Huntington A (059-20279)	307	1-20-69 ✓ 5-25-90a							1-2-91 fl

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-20403)	308	12-31-69 --2-72 1-19-90 a	Gac				3-7-91	ff	
Huntington A 059-21097 -01	309A	11-6-81 ~~12-21-81~~ 1-9-84 rdr 12-14-84 a		C:NC	1-[illegible]-91		3-8-91	ff	
Huntington A 059-21098	310	11-6-81					3-8-91	ff	

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DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Operator [illegible] CHEVRON U.S.A. INC.
Field Huntington Beach County Orange
Sec. 3, T. 6S, R. 11W, S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Rework	Records: Aban.	Status	Remarks
Huntington A	311	21200	10-6-83 11-26-84			3-	11-91 ff		
Huntington A	312	21204	10-19-83 1-25-84 susp. dr 10-11-89 a			3-	8-91 ff		
Huntington A	313	21205	10-19-83 10-11-89 a			3-	8-91 ff		
Huntington A	314	21202	10-13-83 12-15-83 susp dr 10-11-89 a			3-	8-91 ff		
Huntington A	315	21206	10-19-83 12-19-83 susp dr 10-11-89 a			3-	8-91 ff		

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DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Operator CHEVRON U.S.A. INC.
Field Huntington Beach County Orange
Sec. 3, T. 6S, R. 11W, S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington A	316	21207	10-19-83 11-1-89 a			4-22-91	fl		
Huntington A	317	21203	10-14-83 11-26-89 a			3-	11-91 fl 0		
Huntington A	318	21215	11-22-83 11-26-89 a			3-11-91	fl		
Huntington A	319	21214	11-14-83 11-26-89 a			3-11-91	fl		
Huntington A	320	21216	11-29-83 12-8-89 Chapp a/c 12-14-89 a			3-8-91	fl		

RESOURCES AGENCY OF CALIFORNIA
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Operator CHEVRON U.S.A. INC.
Field Huntington Beach County Los Angeles
Sec. 3, T. 6S, R. 11W, S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington A	321	21217	12-9-83			3-8-91			
			12-14-89						
Huntington A	322	21404	11-17-88						
Huntington A	~~323~~	~~21405~~	~~11-17-88~~					CANCELLED 12-28-89 Date	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington A-B	1	03430	✓ 10-8-24			1-13-91			
Jones LW			3-1-27 and 9-19-51 [illegible]				ff		
Formerly "Huntington	A" 29;		5-25-70 a						

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A-E Line Well (059-03666) (Formerly "Hunt. A-E Line Well" 1	1	7-30-58 9-7-90 a					12-26-91	fl	
Huntington A-E Line Well (059-03669)	3	✓ 9-24-64 3-21-79 8-30-90 a					1-24-92	fl	
Huntington A-E Line Well (059-03670)	4	✓ 11-4-64 5-25-90 a				Canc. 9-10-76	6-6-91	fl	
Huntington A-E Line Well (059-03667) Formerly "Huntington A" 102-A;	102-B	✓ 3-15-51 1-31-66 5-25-90 a					4-28-92	fl	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03401)	1	12-10-19 ✓ 1-5-90 a					12-26-91 fc		
Huntington A (059-03402)	2	7-28-20 ✓ 1-17-90 a					1-7-91 fc		
Huntington A (059-03403)	3	9-23-20 ✓ 1-3-24 acc 12-1-25 ✓ 5-2-28 a 9-12-91 ca cancelled 2-16-95 9-18-92 aa						2/6/29	
Huntington A (059-03404)	4	10-27-20 ✓ 7-9 acc 5-15-69 ✓ 12-8-72 a 6-16-78 ✓ acc 3-12-79 ✓							
Huntington A (059-03405)	5	12-2-20 ✓ 5-24 ✓ 11-2-38 ✓ 12-13-38 ✓ acc 2-8-24 a ✓ 5-15-72 a ✓						3-2-24 8/8/ 08-12-	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03406)	6	12-2-20 ✓ 6-6-22 9-2-22	LLC						
Huntington A (059-03409)	9	3-10-21 ✓ 4-11-52 a							
Huntington A (059-03410)	10	4-18-21 ✓ 9-22-24 3-11-26 a 5-17-28 1-11-90 a					4-4-91		
Huntington A (059-03411)	11	5-2-21 ✓ 12-12-51 a 1-5-90 a						1-2-91	
Huntington A (059-03413)	13	6-7-21 ✓ 1-17-22 a 6-17-22 a 11-11-24 a 10-18-37 a 2-25-87 a 4-25-88							
Huntington A (059-03419)	19	5-29-22 ✓ 5-2-46 a 8-30-52 a							

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03421)	21	7-28-23							
Huntington A (059-03422)	22	7-11-23					2-20-79		
		12-1-72							
Huntington A (059-03423)	23	3-18-24							
		3-20-02 CANC. 06-29-93							
Huntington A (059-03424)	24	5-24-24					7-27-90		
		1-12-90	a						
Huntington A (059-03425)	25	4-26-24					7-27-90		
		5-25-89							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03426)	26	10-8-24							
Huntington A (059-03427)	26-A	12-22-24						8-26-39	
Changed 3-31-72 to "Huntington A-B Jones LW" 1; see new page.									
Huntington A (059-03430)	29	6-24-25							

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Well Designation	Well No.	Notices (Date)	Records: Log: Write.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03433)	32	6-22-26 10-28-30 10-28-31 p 8-10-46 a 5-22-56 a						4-17-56 cc	
Huntington A (059-03438)	37	6-24-42 6-9-67 ndr 9-d 5/27/87 a					3-22-69	ff	
Huntington A (059-03439)	38	8-20-42 11-25-85 new 5/27/87 a						1-28 cc	
Huntington A (059-03440)	39	12-10-42 12-23-53 a 5-23-67 ndr 8-5-69 ndr 9-d 5/27/87 a					3-22-69	ff	
Huntington A (059-03441)	40	1-15-43 2-1-43 sa 7-15-85 new 5/27/87 a						7-7-88 cc	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03442)	41	2-26-43 ✓ 7-20-46 nd 8-3-65 ac 8-30-66 p+ne 9-15-69 a					3-8-91	R 90	Water Flood
Huntington A (059-03443)	42	2-1-43 ✓ 10-27-67 nd w 12-9-69 nd w + d 4-6-90 a					4-4-91	fl	
Huntington A (059-03444)	43	2-26-43 ✓ 2-21-62 nd w 7-7-69 conf 10-8-75 a					3-4-76	fl	Water Flood
Huntington A (059-03445)	44	4-9-43 ✓ 12-7-62 nd + d 3-25-64 ac 2-13-68 nd w + d 11-25-68 nd w 1-9-69 nd w, d 11-21-89 a					4-4-91	fl	Water flood well
Huntington A (059-03446) (Formerly "Huntington A" 45;	45-A	8-2-43 ✓ 12-23-43 nd w 2-16-65 a nd + d 4-15-65 nd w 5-6-88 a					3-2-89	fl	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03447)	46	5-24-43 2-23-55 drlg 4-30-60 drlg 7-7-69 ltr 12-14-87a			c			7-78 ff	Water Flood Well
Huntington A (059-03448)	47	6-18-43 10-9-67a ltr 11-20-67 rdln 5/21/87 a					11-22-89 ff	V	
Huntington A (059-03449)	48	4-26-43 2-21-44P 12-10-52a ltr 10-20-64 rdln ltr 1-12-90a					4-4-91 ff		Water flood well
Huntington A (059-03450)	49	6-21-43 2-17-69 rdln 4-6-90a					3-7-91 ff		
Huntington A (059-03451)	50	8-18-43 12-14-67a					5-15-68 ff		

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03452)	51	8-23-43 ✓ 5-25-90a					3-11-91	fl	
Huntington A (059-03453)	52	11-22-43 ✓ 11-2-64 Ind. & d. 1-12-90a					4-23-91	fl	
Huntington A (059-03454)	53	9-10-43 ✓ 4-13-65 Ind. & d. 10-11-89a					4-22-91	fl	
Huntington A (059-03455)	54	11-22-43 ✓ 3-15-66 rework. 1-11-90a					4-4-91	fl	Water Flood
Huntington A (059-03456) (Formerly "Huntington A" 55;	55-A	12-8-43 ✓ 7-11-52 a 11-9-64 a Ind. & d. 5-6-88 a					3-20-89	fl	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03528)	56	1-18-44 10-21-64 rdh-d 2-26-68 rdh 9-22-89a					4-22-91	fl	Water Flood
Huntington A (059-03457)	57	2-25-44 2-23-44 rdh 10-29-65 rdh-d 1-18-66 rdh-d 11-22-83 a						fl 5-8-91	
Huntington A (059-03458)	58	3-6-44 3-16-60 rdh-d 10-1-68 rdh 9-15-89a					3-11-91	fl 5-8-91	
Huntington A (059-03459	59	2-2-44 1-10-66a rdh						3-12-91	
Huntington A (059-03460)	60	2-16-44 2-5-53a						4-13-91	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A	61	~~2-29-44~~	Cancelled 12-28-44.						Destroyed Tahoe 2-15-83
Huntington A (059-03461)	64	✓ 4-12-44; 9-4-45 a; 10-19-46 ltr p/a						2-2-46 RE	
Huntington A (059-03462)	65	✓ 7-14-48; 9-15-89 a						4-5-91 fl	
Huntington A (059-03463)	66	✓ 6-27-44; 10-9-44 a						7-14-45 fl	
Huntington A (059-03464)	68	✓ 10-13-44; 9-14-71 a						3-20-91 fl	
Huntington A (059-03465)	70	✓ 6-5-44; 11-30-60 ltr; 4-1-; 3-29-68 ltr; 8-8-68 ltr; 9-25-68 ltr; 9-11-90 a						7-22-91 fl	
Huntington A (059-03467)	72	✓ 10-30-44; 12-26-44 a; ~~8-14-68 Rupa~~	cancelled				12-12-79	7-30-45 fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03468)	73	✓ 12-12-44 3-15-66 recomp-k 1-18-90 a 5-22-90 supp a					4-22-91	ff	Water Flood
Huntington A (059-03469)	74	✓ 10-8-45 11-30-45 a-dw 8-24-83 recomp 1-5-84 supp rec 1-18-90 a			1-23-91			3-7-91 ff	
Huntington A (059-03470)	76	✓ 2-23-45 12-14-64 dr 5-25-89 a						3-26-91 ff	
Huntington A (059-03471)	77	✓ 4-20-45 1-10-52 p&a-ac 1-7-64 recomp 5-10-90 a						1-2-91 ff	
Huntington A (059-03472)	78	✓ 3-12-45 2-6-78 recomp 5-19-78 to "a"						10-8-78	
Huntington A (059-03474)	80	✓ 11-12-46 6-22-51 a-dr 5-25-90 a						3-11-91 ff	
Huntington A (059-03476)	82	✓ 2-14-47 11-13-47 a-dr 1-18-90 a							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03477)	83	✓ 2-28-47 1-18-90a					4-5-91 fl		
Huntington A (059-03478)	85	✓ 3-10-47 9-24-59a						3-8-66 LC	
Huntington A (059-00129)	87	✓ 2-3-48 12-5-62 ea 9-28-89	✓				2-25-91 fl		Water Flood
Huntington A (059-03479)	88	✓ 4-8-48 7-7-67 9-8-89a	cw				3-14-90 fl		Water Flood
Huntington A (059-03480)	89	✓ 4-26-48 2-1-49a 1-14-63 ea 4-8-89a 10-19-95 Supp/a	+as				8-14-90 fl		
Huntington A (059-03481)	90	✓ 5-24-48 10-11-89a					8-7-90 fl		
Huntington A (059-03483)	92	✓ 11-17-48 10-11-89a							1-2-91 fl

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Well Designation	Well No.	A.P.I. No. 237	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington A	93	none	~~4-27-83~~ ---					CANC 8-22-83	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03486)	96	✓ 5-29-50; 12-20-63 ndv + al; 5-25-90a					3-	11-91 fl	
Huntington A (059-03489)	99	✓ 1-4-51; 4-27-84a						7-15-88 fl	
Huntington A (059-03490)	101	✓ 4-9-51; 10-8-54 ndv; 12-1-71 ndv + d; 5-2-90a					3-	11-91 fl	
Huntington A (059-03491)	102	✓ 2-27-51; 3-15-51a						9-24-51 fl	
Huntington A (059-03492)	103	✓ 8-30-51; 10-20-84 a					7-27-	90 fl	
Huntington A (059-03494)	105	✓ 12-21-51; 4-6-90 a					3-	7-91 fl	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03495)	106	12-24-51 8-4-71 a					x	2-21-91 fl	
Huntington A (059-03496)	107	2-6-52 2-3-63 nd 1-11-90						2-21-91 fl	
Huntington A (059-03497)	108	5-22-52 5-2-90a						1-2-91 fl	
Huntington A (059-03498)	109	8-12-52 5-2-90a						1-2-91 fl	
Huntington A (059-03499)	110	11-5-52 5-2-90a						3-26-91 fl	

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Well Designation	Well No.	Notices (Date)	Records: Log: Write.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03500) (Formerly "Huntington A" 111; "Huntington A" 111-A;	✓ 111-B	12-16-52 5-25-65 1-8-65 7-21-65 12-14-89 a					3-13-91	ff	
Huntington A (059-00131)	✓ 112	12-29-52 8-5-66 CWF 1-5-90a					8-7-90	ff	Water Flood Well
Huntington A (059-03502)	✓ 113	6-8-53 7-5-63 5-2-90a					3-11-91	ff	
Huntington A (059-03504)	✓ 115	4-23-53 5-2-90a						1-3-91 ff	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03505)	✓ 116	8-12-53 T. 2-5-61 12-1-73 3-21-79 Petition 5-25-89 a	Same	Log			3- Cond	9-91 ll D	Hist. Record
Huntington A (059-03506 (Formerly "Huntington A" 117;	✓ 117A	8-21-53 11-5-53 Not ✓ 2-25-79 a						ll 15-A-80	
Huntington A (059-03507)	✓ 118	9-17-53 12-2-65 hvd 5-2-90 a					3-	11-91 ll D	
Huntington A (059-03508)	✓ 119	4-26-54 4-29-59 p 5-6-60 a 12-9-71 a 1-12-90 a 3-22-90 hvd							
Huntington A (059-03509)	120	6-20-55 5-2-90 a					7-22-91	ll	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-00132)	121	12-26-56 1-12-66 rd 9-1-66 ac 5-5-70 ac 7-23-70 ac 9-28-89 a	work					7-27-90 fl	Water Flood
Huntington A (059-03510)	122	3-11-57 11-8-62 rd 10-20-89 a	work					4-5-91 fl	Water Flood
Huntington A (059-03511)	123	3-26-57 3-28-75 rd 1-5-90 a	work				9-5-90 fl		Water Flood
Huntington A (059-03512)	124	11-13-57 5-24-89 a						5-11-90 fl	
Huntington A (059-00953)	125	12-3-57 3-24-67 ac 9-28-89 a						7-27-90 fl	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03513)	126	✓ 3-3-58 10-20-89 a					9-17-90 ff		
Huntington A (059-03514)	127	✓ 5-19-58 7-25-58 ac 7-22-87 a						7-15-88 DE	
Huntington A (059-03515)	128	✓ 7-3-58 12-2-54 a ✓ 1-5-90 a					7-27-90 ff		
~~Huntington A (059-01914)~~	129	✓ 9-30-58 1-2-66 Pumper 5-9-67 pf 4 ac 6-4-69 pf 4 ac 3 conv. to prod. 6-23-76 a					3-24-77 ff		~~Water Flood~~
Huntington A (059-00426)	130	✓ 10-29-58 10-11-63 ac 1-12-66 ac 1-18-90 a					9-5-90 ff		Water Flood

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03516)	131	10-21-58 ✓ 9-28-89 a					4-5-91	fl	
Huntington A (059-03517)	132	10-31-58 ✓ 12-26-63. 10-13-87 a	new	new				4-5-91 fl	Water Flood
Huntington A (059-03518)	133	12-8-58 ✓ ~~5-22-87 a~~ 1-4-90 a					7-27-90 8-18-88	fl	
Huntington A (059-03519)	134	11-17-58 ✓ 4-30-90 a					7-22-91	fl	
Huntington A (059-03520)	135	1-19-59 ✓ 5-2-90 a 12-7-90 a					7-22-91	fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington A (059-03521)	136	✓ 2-17-59 4-30-90a					3-1-91 fl		
Huntington A (059-03522)	137	✓ 3-31-59 1-4-90a					7-27-90 fl		
Huntington A (059-03524)	139	✓ 5-12-59 1-4-90a					4-5-91 fl		
Huntington A (059-03525)	140	✓ 9-21-59 9-28-89a					12-26-91 fl		
Huntington A (059-03528)	141	✓ 11-2-59 4-30-90a						1-3-91 fl	
Huntington A (059-03529)	142	✓ 12-21-59 5-9-66 Conf 9-28-89a					5-16-91 fl		Water Flood
Huntington A (059-00001)	144	✓ 2-5-60 12-21-64 4-acr 1-3-67 4-acr 1-4-90a					7-27-90 fl		

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Huntington A (059-03532)	146	✓ 5-4-60 10-23-87 a						9-15-87 fl	Water Flood
Huntington A (059-03533)	147	✓ 5-25-60 4-30-90 a					3	11-91 fl	
Huntington A (059-00133)	148	✓ 9-19-60 5-9-66 rdr. 12-15-66 ac 5-27-87 a						8-4-88 fl	
Huntington A (059-03534)	149	10-6-60 10-23-87 a					2	1-90 fl	
Huntington A (059-03536)	151	✓ 10-28-60 ~~11-20-87 hour~~ 4-3-90 a			cancelled	4-19-90		4-5-91 fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03537)	152	✓ 12-1-60 5-10-90a						1-2-91 fl	
Huntington A (059-03539)	154	✓ 1-20-61 2-4-71a					3-[illegible]-91 [illegible]		
Huntington A (059-03540)	155	✓ 2-9-61 1-4-90a					8-7-90 fl		
Huntington A (059-03541)	156	✓ 2-28-61 3-7-61a						10-10-44 fl	
Huntington A (059-03543)	158	✓ 3-9-61 1-17-90a					3-7-91 fl		
Huntington A (059-03544)	159	✓ 6-2-61 [illegible] 4-20-90a						1-3-91 fl	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington A (059-03546)	161	10-10-61 ✓ 2-28-71 new & ol 1-5-90 a							
Huntington A (059-03547)	162	11-10-61 ✓ 7-26-89 a							
Huntington A (059-03548)	163	10-10-61 ✓ 1-5-90 a					7-27-90 fl		
Huntington A (059-03549)	164	10-10-61 ✓ 4-3-90 a					3-8-91 fl		
Huntington A (059-03550)	165 ✓	8-30-61 8-2-88 a					10-31-89 fl		

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Huntington A (059-03551)	166	✓ 11-3-61					4-4-91 fl		
Huntington A (059-03552)	167	✓ 9-21-61 7-21-65a 8-3-65a 8-30-66 fl 5-24-89a					1-29-90 fl		Water Flood
Huntington A (059-00134)	168	✓ 9-8-61 11-8-62a 8-19-64a 7-28-66 fl 8-10-67a 1-24-90a					3-20-91 fl		Water Flood
Huntington A (059-03553)	169	✓ 10-23-61 9-11-62a 8-3-88a					10-30-89 fl		
Huntington A (059-03554)	170	✓ 9-27-61 9-15-89a					3-3-91 fl		

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03555)	171	9-5-61					5-11-90	fe	
Huntington A (059-03556)	172	9-22-61 4-27-87 a					12-12-89	fe	
Huntington A	173	10-16-61	C A N C E L L E D						Company advised well will not be drilled, 6-3-66 Cancelled 12-5-78
Huntington A (059-03557)	174	9-21-61 9-25-89a					4-13-90	fe	
Huntington A (059-03558)	175	12-12-61 4-27-99 a					9-1-88	fe	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03559)	176	10-10-61 4-3-90a					12-26-91	ll	
Huntington A (059-00431)	177	11-15-61 2-8-67 rdu 7-14-67 rdu [illegible]					4-[illegible]-9	ll	
Huntington A (059-03560)	178	11-15-61 1-25 89a					3-[illegible]-91	ll	
Huntington A (059-03561)	179	9-27-61 1-11-90a					3-9-91	ll	
Huntington A (059-03562)	180	12-1-61 [illegible]					2-21-[illegible]	ll	

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Huntington A (059-00135)	181	✓ 12-5-61 8-3-65 ac 12-1-66 ac 9-27-90					2-25-91	fl	Water Flood
Huntington A (059-03563)	182	✓ 12-29-61 8-2-65 ac 9-25-89 ac					4-5-91	fl	Water Flood
Huntington A (059-03564)	183	✓ 11-8-61 5-1-64 ac 4-7-72 ac 4-25-89 ac				12-26-91		fl	
Huntington A (059-03565)	184	✓ 12-12-61	Corrected to Sec. 34-5S-11W. Corr. ltr. 2-19-62						
Huntington A (059-03566)	185	✓ 12-29-61 1-5-90 ac						1-2-91 fl	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03567)	186	✓ 1-15-62 1-11-900							
Huntington A (059-03568)	187	✓ 1-24-62 4-6-90a					6-6-91 fe		
Huntington A (059-03570)	189	✓ 1-11-62 [illegible]					10-30-89 fe		
Huntington A (059-03571)	190	✓ 2-21-62 [illegible]					3-[illegible]-91 [illegible]		

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Huntington A (059-03572)	191	✓ 2-16-62 4-30-90 a					4-5-91 fl		
Huntington A (059-03573)	192	✓ 2-28-62 11-6-64 a 9-28-89 a					4-13-90 fl		
Huntington A (059-03574)	193	✓ 3-20-62 8-2-88 a					10-30-89 fl		
Huntington A (059-03575)	194	✓ 3-28-62 1-5-90 a					7-27-90 fl		
Huntington A (059-03576)	195	✓ 3-19-62 3-31-75 a 1-22-88 a					4-4-91 fl		Wat. Well

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington A (059-03577)	196	✓ 3-9-62 3-22-75 Recmpl 4-21-87 a.					S	11-9 fl	Water Flood
Huntington A (059-03579)	198	✓ 4-18-62 11-14-62 f 8-2-88 a.	Recmpl					10-30-91 fl	
Huntington A (059-03580)	199	✓ 5-15-62 8-11-89 a						5-30-90 fl	
Huntington A (059-03581)	200	✓ 5-15-62 1-5-90a						7-27-90 fl	



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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03696)	25	4-11-24 ✓						5-12-44	7-28-75
Huntington B (059-03699)	29	10-18-24 ✓						2-6-44	8-11-75
Huntington B (059-03703)	33	4-1-25 ✓						2-28-44	4-11-75
Huntington B (059-03704)	34	3-13-25 ✓					3-8-91	fe	Water Flood
Huntington B (059-03707)	38	9-14-25 ✓					2-26-91	fe	Water Flood
Huntington B (059-03526)	39	9-30-25 ✓						8/2/91	Water Flood
Huntington B (059-03708)	40	11-3-25 ✓					3-8-91	fe	
Huntington B (059-03711)	43	1-11-26 ✓						2-15-44	7-28-75
Huntington B (059-03726)	60	12-15-27 ✓					4-22-91	fe	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03736)	70	9-18-34 ✓ 1-27-38 p 3-22-38 p	ac				4-23-91	fl	
Formerly "Huntington B-PE Unit" 70.		6-16-76 ✓ 8-6-90a	new						
Huntington B (059-03737)	71	11-1-34 ✓ 2-12-38 p 7-8-71 p 2-12-90 a					2-26-91	fl	
Huntington B (059-03739)	73	4-29-35 ✓ 11-11-36 p 5-18-38 p 1-5-75 trans 9-20-77 8-6-90a	new				2-26-91	fl	
Huntington B (059-03757)	96	1-31-47 ✓ 1-12-71 e 4-3-90a	ewf				4-22-91	fl	Water Flood
Huntington B (059-03762)	101	5-6-47 ✓ 10-22-87 new 1-19-90	a				3-8-91	fl	
Huntington B (059-03765) Formerly "Huntington B-PE Unit" 104.	104	9-23-47 11-27-67 7 ac 7-19-90a					2-26-91	fl	
Huntington B (059-03768)	107	12-15-47 ✓ 1-18-90a					8-7-90	fl	
Huntington B (059-03769)	108	12-29-47 ✓ 2-20-74 ac 3-28-80	fl.						
Huntington B (059-04529)	114	3-18-48 ✓ 10-5-75 new 1-18-90 k	new			3-13-79	1-8-91	KE	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	120	03779	6-3-48 9-9-48 rec'd 1-18-90 a			8-14-90 K			

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	121	03780	6-16-48					4-5-91 PC	Water Flood
			4-11-77 A 7-20-77						
			10-4-91	A					

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	130	03785	8-23-48			12-26-91	fe		
Formerly "Huntington Unit" 130.	B-PE		8-6-90 L	-ac					

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	133	03788	1-19-49 E-Log 7-15-77a	✓				7-25-78	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	158	03873	8-17-56					7-28-78 PG	
Formerly "Huntington B-PE Unit" 158.			10-1-57 ma 3-3-66 PG 7-15-77 a						

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	187	03837	✓ 2-21-62 8-6-90a			12-26-91	fe		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	204	03852	7-1-63 ✓ 2-8-90 a			9-5-90 jk			

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	210	03858	6-18-64 2-8-90 ow			9-5-90 ll			

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	225	03875	12-30-65 ✓			2-26-91 fl			
Formerly "Huntington Unit" 225.	B-PE		1-24-90 a						

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B									
Huntington B	248	20569	3-1-72 2-27-90					9-17-90 fe	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	253	20918	5-17-78 2-27-90 a				9-5-90 jl		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03672)	2	✓ 2-23-21 8-19-26 ac 7-15-77 a						T-D 10-5-21 D	
Huntington B (059-03681)	10	✓ 1-16-22 7-15-77 a						T-D 1-8-22 1x D	
Huntington B (059-03690)	19	✓ 10-10-23 11-29-27 ac 7-15-77 a						4-9-28 1E D	
Huntington B (059-03697)	26	✓ 5-24-24 7-15-77 a						T-D 6-18-24 Ls. C	
Huntington B (059-00151)	28	✓ 10-18-24 5-23-25 ac 9-18-25 ac 10-28-1.6 ac	✓	✓				8-21-67 AC	
Huntington B (059-09157) Formerly "Huntington B-PE Unit" 37A.	37A	9-14-25 6-9-86 a					12-30-86		
Huntington B (059-03709)	41	✓ 11-28-25 8-11-44 ac 1-10-75 a 4-3-90 a					3-8-91		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03712)	44	1-29-26 ✓ 3-4-26 ad 4-9-26 ad 8-10-45 ltr 3-5-68 ltr 4 cmf 12-3-73 ltr 6-3-91 a					3-8-91	fl	Water Flood
Huntington B (059-03713)	45	2-15-26 ✓ 3-26-26 ad 4-20-26 ad 2-10-44 ac 12-5-73 ltr 2-13-74 ltr 6-7-84 a						8-9-85 fl	
Huntington B (059-03714)	46	3-19-26 ✓ 2-28-68 ac 4 cmf ~~6-18-80 ltr~~ Canc. 7-29-81 5-29-90 a					3-11-91	fl	Water Flood
Huntington B (059-03715)	47	5-20-26 ✓ 2-22-72 cmf 4-11-90 a					3-8-91	fl	Water Flood
Huntington B (059-03716)	48	6-5-26 ✓ 8-5-26 ad 8-11-26 ltr ~~1-20-41 Letter~~ 11-26-80 cmf					7-14-81	fl	Water Flood
Huntington B	51	~~8-27-26~~ ✓	Letter to RDB 12-23-32. Cancelled 12-23-32.						
Huntington B (059-03735) Formerly "Huntington B-PE Unit" 69.	69B	6-27-34 ✓ 10-16-34 ltr 2-26-36 ltr 9-11-38 ltr 5-21-45 ad 8-22-46 ltr 5-10-72 ltr 7-29-90 a					12-23-91	fl	

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Huntington B (059-03738)	72	12-21-34 ✓ [illegible] 10-5-71 a 2-12-90 a					8-31-40	fl	
Huntington B (059-03740)	74-A	10-13-43 ✓ 1-6-45 a 4-17-90 a					3-41-91	fl	
Huntington B (059-03743)	77-A	4-6-44 ✓ 4-20-46 p 5-10-48 a 11-25-64 a					12-23-91	fl	
Formerly "Huntington B"	77;	4-3-90 a							
Huntington B (059-03744)	80	6-5-44 ✓ 2-2-54 a 4-5-72 a					10-2-73	fl	
Huntington B (059-03745)	81	2-19-45 ✓ 9-17-45 a 12-10-67 a						8-21-62 fl	
Huntington B (059-04534)	88	7-9-45 ✓ [illegible] 10-14-64 a 10-8-65 a 11-28 a 4-3-69 a 7-2-90 a					3-8-91	fl	Water Flood

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DIVISION OF OIL AND GAS

02312-705 9-67 5M ◇S OSP

Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 3, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B	90	8-27-45					8-31-[illegible]		
(059-03750)		12-5-45 [illegible]							
Formerly "Huntington B-PE		6-9-67 [illegible]							
Unit" 90.		6-14-67 [illegible]							
		2-13-78 [illegible]							
		6-1-89 a							
Huntington B	92	3-20-46					7-27-90		
(059-03753)-01		2-23-71 [illegible]							
		3-13-74 [illegible]							
		12-5-79 [illegible]							
		7-10-89 a							
Huntington B	93	5-14-46						2-3-64	
(059-03754)		5-27-46							
		9-18-68 a							
Huntington B	94	7-22-46					6-31-90		
(059-03755)-01		9-19-46 [illegible]							
		10-11-46 [illegible]							
		12-9-75 [illegible]							
		2-18-82 [illegible]							
		9-2-83 [illegible]							
		10-19-83 [illegible]							
		2-15-90 a							
Huntington B	99	3-25-47						10-17-65	
(059-03760)		4-25-68 [illegible]							
		4-29-68 [illegible]							
Huntington B	100-B	5-23-47							Water Flood
(059-03761)		5-9-61 [illegible]							
		6-7-61 [illegible]							
		12-11-61 [illegible]							
Formerly "Huntington B"	100;	12-21-70 [illegible]							
		10-20-75 [illegible]							
		8-25-77 [illegible]							
		1-24-90 X							
		10-22-90 FL							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03763)	102	6-6-67 ✓ 8-6-90a					12-2	8-91 fe	
Huntington B (059-03764)-01	103-A	7-2-47 ✓ 10-1-64 a 8-10-65 a 1-18-90a		can 2/10/83				8-31-43 fe	Water Flood
Huntington B (059-03766)	105	11-20-47 ✓ 3-23-65 p 9 a 9-30-65 a 4-2-90a						3-11-91 fe	
Huntington B (059-03767)	106	12-4-47 ✓ 1-18-90 a						8-31-90 fe	
Huntington B (059-03771)	110	5-28-51 ✓ 8-6-90a						12-23-91 fe	
Huntington B (059-00482)	111	1-20-48 ✓ 5-5-65 p 9 a 7-8-67 p 9 a 11-26-80 a						11/19/81 D	Water Flood
Huntington B (059-03772-01) (059-03772)	112-A	1-5-48 ✓ 6-5-71 a 3-15-78 a					3-8	91 fe	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03773)	113	2-3-48 ✓ 1-18-90 a					3-26-91 jc		
Huntington B (059-03774)	115	3-19-48 ✓ 6-3-87 a					3-8		
Huntington B (059-03775)	116	2-23-48 ✓ 2-3-71 conv. to steam injection 5-10-71 ac					3-11-91 jc		~~Steam Injection~~
		~~10-12-73~~ 10-12-73 conv. to prod. 4-2-90 a) conv. to prod.					~~conv. 9-3-75.~~		
Huntington B (059-03776)	117	4-12-48 ✓ 1-18-90a					9-3-90 jc		
Huntington B (059-03777) -01	118-A	5-10-48 ✓ 11-2-70 ac ~~4-24-81 Conv.~~ ~~8-16-83 ac~~						3/13	Water Flood
		frac + conv. Conv. 11-28-82							
Huntington B (059-03778)	119	6-3-48 ✓ 1-18-90 a					9-5-90 jc		
Huntington B (059-03781)	124	6-14-48 ✓ 6-6-90a					4-5-91 jc		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03783)	126	6-16-48 1-2-90	X					11-9-90 FL	
Huntington B (059-03784)	128	7-14-48 5-22-90a				9-3-75	9-5-96	5-22-90 JL	
Huntington B (059-00153)	129-A	8-18-48 9-10-62a 5-6-65a 10-10-72a	✓	✓				6-11-79 RL	Water Flood
Formerly "Huntington B"	129;	9-10-67a 9-2-70a	✓						
Huntington B (059-03786)	131	9-22-48 10-10-62a 2-28-68a 10-6-78a	✓					5-9-79 JL	Water Flood
Huntington B (059-03787)	132	11-9-50 12-15-61a	✓					5-15-67 JL	
Huntington B (059-03790)	135	10-5-50 7-27-90a 1-8-91 AWP					12-26-91	JL	

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Well Designation	Well No.	Notices (Date)	Records: Log: Well.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington B (059-03792)	137	12-15-50 ✓ 6-15-71 a 1-24-90 a					8-31-90	fl	
Huntington B (059-03793)	138 ✓	5-11-51 7-27-90 a					12-26-91	fl	
Huntington B (059-03794)	139 ✓	7-6-51 1-26-66 a. Surf. 9-6-66 a. Csg. 4-29-70 a. Conv. to prod. 7-27-90 a					12-26-91	fl	~~Steam flood~~
Huntington B (059-03795)	140 ✓	7-26-51 6-11-68 Csg. 6-5-70 a. Conv. to prod. 1-18-90 a					3-8-91	fl	~~Steam Flood~~ (6-5-70)

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03796)	141	7-20-51 ✓ 5-2-61 ✓ 2-7-62 ✓ 12-5-76 ✓					5-11-27 ✓		
Huntington B (059-03800) (C1)	145(A)	9-26-51 ✓ 12-9-76 ✓ 3-21-80 ✓ 1-24-90 ✓	✓				12-23-91 ✓		
Huntington B Formerly "Huntington B-PE Unit" 150.	150	12-11-52 5-25-66 ✓ 1-26-90 ✓					9-5-90 ✓		
Huntington B (059-03805)	151	4-28-53 ✓ 5-6-68 ✓ 5-23-90 ✓					9-5-90 ✓		
Huntington B (059-03806)	152	4-17-53 ✓ 4-30-53 ✓							
Huntington B (059-03807)	153	6-2-53 ✓ 5-24-53 ✓ 7-7-69 ✓ 7-30-71 ✓ 12-1-71 ✓	✓	✓	a.c	✓	3-5-73 ✓		~~WATER FLOOD~~
Huntington B (059-03808)	154	6-26-53 ✓ 12-2-90 ✓					3-8-91 ✓		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03810)	156	✓ 8-3-54 1-26-90 a					3	11-91 ll	
Huntington B (059-03811)	159	✓ 2-28-57 8-22-80 ✓					6-12-81 ll		
Huntington B (059-03812)	160	✓ 4-5-57 10-6-78 a						6-12-79 ll	
Huntington B (059-03813)	161	✓ 5-21-57 1-14-81 a						11/13/81 ll	
Huntington B (059-03815)	163	✓ 9-25-57 10-16-90 a 1-23-91 ll a					12-23-91 ll		
Huntington B (059-03816)	164X	✓ 10-7-57 11-30-82 rew 12-22-83 supp-rew 7-24-90 a					6-16-71 ll		
Huntington B (059-03818)	166	✓ 8-4-60 4-16-62 a-a 1-20-90 a	Feder				4-17-90 ll		Steam Injector

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03820)	168	✓ 9-19-60; 12-29-75; 10-23-87a	—				11-2-82	ll	
Huntington B (059-03823)	171	✓ 6-22-61; 6-19-72; 1-26-90a	Comm. as prod.				8-31-90	ll	Steam Flood
Huntington B (059-03824)	172	✓ 8-15-61; 12-1-88a						5-9-79 ll	
Huntington B (059-03827)	175	✓ 11-2-61; 8-11-89a					3-11-91	ll	
Huntington B (059-03829)	177	✓ 10-19-61; 8-6-90a					12-23-91	ll	
Huntington B (059-03830)	178	✓ 10-19-61; 8-6-90a					12-23-91	ll	
Huntington B. Formerly "Huntington B-PE Unit" 179. 059-00902	179	10-10-61; 9-27-66 C; 2-20-67; 7-3-90a	Comm. as Unit Well				12-12-62	4-4-91 ll	Water Flood

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03831)	180	11-15-61 ✓ 11-11-92					3-8-91 fe	0	
Huntington B (059-00210)	186	2-7-62 ✓ 1-22-67 ea 4-25-67 ea 6-27-67 ea 2-8-90a					9-5-90 fe		
Huntington B (059-03838)	188	3-2-62 ✓ 1-12-71 ea 4-11-90a					4-4-91 fe	0	Water Flood
Huntington B (059-03839)	189	2-26-62 ✓ 11-11-90a					3-8-91 fe	0	
Huntington B (059-03841)	191	4-4-62 ✓ 2/31-32 Rec 4-9-90 MW 1-24-90 CK						1-8-91 fe	Water Flood
Huntington B (059-00083) -01	192-A	4-2-62 ✓ 11-4-70 ea 4-24-81 sdk 4-3-90a	Cancelled				7-8-90 fe		Water Flood
Huntington B (059-03845)	197	6-13-62 ✓ 1-26-90a					1-27-90 fe	0	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03846)	198	✓ 8-14-62					12-23-?	?	Steam Flood
Huntington B (059-03848)	200	✓ 3-11-63 7-3-63 11-14-90a						3-11-91 fl	
Huntington B (059-03850)	202	✓ 5-28-63 10-15-63 2-5-90a						3-8-91 fl	
Huntington B (059-03856)	208	✓ 10-8-63 12-20-63 12-31-63 2-27-90a					9-5-90 fl		
Huntington B (059-03859)	211	✓ 10-6-64 2-8-90a						9-5-90 fl	
Huntington B (059-03861)	213	✓ 1-4-65 3-27-78 7-27-90a					12-23-91 fl		
Huntington B (059-03862)	214	✓ 12-30-64 9-13-90a					12-23-91 fl		
Huntington B (059-03863)	215	✓ 4-29-65 3-27-78 2-8-90a					9-5-90 fl		
Huntington B (037-03874)	219	✓ 12-29-65 6-5-90a						2-26-91 fl	
Formerly "Huntington B-PE Unit" 219.									

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Sec. 3-6S-11W SB B&M

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	221	03868	12-30-65 9-13-90 a 1-4-91 da			12-26-91	fe		
Huntington B	222	03869	12-31-65 9-13-90 a			12-23-91	fe		
Huntington B	223	03870	12-31-65 6-11-68 Cap ~~1-6-75 a~~ 2-8-90 a	~~Lead~~	~~Log~~		Canc. 8-27-75.	8-31-90 fe	Steam Flood
Huntington B Formerly "Huntington Unit" 224.	224 B-PE	01919	12-31-65 ~~11-22-65 a~~ 11-4-69 a 1-24-90 a				9-2-90 fe		Water Flood

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Operator [illegible]
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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	229A	-01 03872	2-10-66 ✓ 8-24-83 NOI 11-30-83 NOI 7-27-90 a			12-26-91	fl		
Huntington B	230	03877	3-22-66 4-1-66 Canc. 8-8-90 a		Canc. 10-21-75.	9-5-90	fl		Water Flood

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	233	00161	7-20-66 12-6-67 ac 6-5-90 a	~9-L		2-26-91	fl		
Huntington B	235-A	00156	9-30-66 8-26-67 ac 12-10-67 ac 4-1-69 ac 8-15-90 a 12-24-90 a 1-15-91 a			12-26-91	fl		
Formerly "Huntington B-PE Unit" 235; "Huntington B" 235.									

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B Formerly "Huntington B-PE Unit" 236.	236	20026	2-24-67 2-5-90 a				9-5-90 fe		
Huntington B	237	20152	✓ 3-11-68 2-5-90a				8-31-90 fe		Steam Flood
Huntington B Formerly "Huntington B-PE Unit" 238.	238	20163	✓ 4-8-68 25-90 a				8-31-90 fe		
Huntington B Formerly "Huntington B-PE Unit" 239.	239	20244	✓ 11-13-68 2-8-90a				8-31-90 fe		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-20335)	241	5-27-69 2-8-90					9-5-90 fl		
Huntington B (059-20340)	242	6-4-69 7-2-90a					3-8-91 fl		
Huntington B (059-20346)	243	6-30-69 7-2-90a					3-8-91 fl.		
Huntington B (059-20458) 059-20458-02-01	244-A	8-4-70 1-16-77 2-21-90a	Ind	Comp.-16, Sam., 6-C-74.			9-5-90		
Huntington B (059-20491)	245	1-6-71 5-23-90a			—		12-26-91 fl		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	246-A	-01 20535	7-30-71 2-23-81 rdr 9-12-90 a					6-6-91 ll	
Formerly Huntington B 246;									
Huntington B	247	20534	7-30-71 9-13-90 a					6-6-91 ll	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	252	20905	10-26-77				8-31-90		
Huntington B	254	21085	9-10-81 11-22-83 Acc 11-27-90 A					6-6-91	

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Operator ~~Chevron U.S.A. Inc.~~
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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	~~257~~	~~21145~~	~~3-3-82~~	Cancelled 3/5/84 File destroyed 3/25/58					
Huntington B	258	21195	9-13-83 10-3-85 suppl dr 12-22-89 a					4-22-91 fl	
Huntington B	259	21194	8-31-83 9-26-83 suppl dr 9-13-90 a					6-6-91 fl	

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	261	21197	10-3-83 10-12-83 APPR 11-4-83 APPR 5-23-90 a 1-8-91 APPR 1-15-91 APPR					6-6-91 LL	
Huntington B	262	21198	10-3-83 12-22-89 a			4-4-91	LL		
Huntington B	263	21208	10-19-83 7-2-90 a			6-18-91	LL		
Huntington B	264	21201	10-6-83 7-2-90 a			6-18-91	LL		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	266	21196	9-14-83 10-4-83 2-27-90a	2L4P dr		6-18-71			

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Sec. 2, T. 6 S., R 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03671)	1	10-18-20						[illegible]	
Huntington B (059-03673)	3	3-10-21 8-1-88 a						7-3-89 ff	
Huntington B (059-03674)	4	4-18-21 12-5-[illegible] 8-20-45 [illegible] 6-29-50 6-1-84 a						5-10-90 ff	
Huntington B (059-03675)	5	11-14-21 3-20-[illegible] 1-28-58 [illegible] 1-6-89						3-21-90 ff	
Huntington B (059-03676)	6	10-3-21 12-28-26 [illegible] 5-1-[illegible] a						[illegible]	
Huntington B (059-03677)	7	11-14-21 [illegible] 5-16-[illegible]							
Huntington B (059-03678)	7-A	5-2-22 [illegible] 1-15-25 [illegible] 3-3-25 [illegible]						3/15/[illegible]	
		5-[illegible] 12-16-25 [illegible] 10-[illegible]							
		11-14-[illegible]							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03684)	13	6-17-22 ✓ 3-19-80					3-20-91		
Huntington B (059-03685)	14	7-5-22 ✓ 10-14-81						5/1982	
Huntington B (059-03686)	15	7-21-22 ✓ 6-4-91 A						9-7-22	
Huntington B (059-03687)	16	8-15-22 ✓ 6-29-83						11/7/84	
Huntington B (059-03688)	17	12-2-22 ✓ 11-9-90 FL							
Huntington B (059-03691)	20	2-3-23 ✓						12-2-98	
Huntington B (059-03692)	21	3-23-23 6-1-84					4-4-91		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03693)	22	3-23-23					4-4-91		
Huntington B (059-03694)	23	2-23-24							
Huntington B (059-03695)	24	4-17-24					7-27-92		
Huntington B (059-03698)	27	10-10-24							12-2-78
Huntington B (059-03700)	30	2-2-25						12-2-78	
Huntington B (059-03702)	32	3-3-25							
Huntington B (059-03705)	35	7-9-25					3-22-89		

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03706)	36	8-18-25							
Huntington B (059-03717)	49	6-14-26 5-11-73a							
Huntington B (059-03728)	62	4-8-29 6-1-89a					1-8-91 ll		
Huntington B (059-03729)	63	8-24-29 4-3-34a							
Huntington B (059-03749)	89	8-22-45 6-6-89a					1-8-91 ll		
Huntington B (059-03758)	97	12-13-46 1-24-90a					9-5-90 ll		
Huntington B (059-03789)	134	3-16-50 6-27-50a 2-23-71 11-9-89 AC 10-11-89 a 11-9-90 FL							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03798)	143	10-10-51 ✓ 7-10-89 a					2-15-91	✓	
Huntington B (059-03799)	144	8-31-51 ✓ 2-5-[illegible] ac 5-11-73 a					[illegible]	✓	
Huntington B (059-03802)	147	4-1-52 ✓ 10-11-78 a 8-22-[illegible] a					6-17-81	✓	
Huntington B (059-03803)	148	6-6-52 ✓ 5-11-73 a					2-5-75	✓	
Huntington B (059-03804)	149	5-19-52 ✓ 3-12-79 a						✓	3-24-80
Huntington B (059-03821)	169	1-6-61 ✓ 7-10-89 a					4-4-91	✓	
Huntington B (059-03822)	170	3-29-61 ✓ 6-6-89 a					5-10-90	✓	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03826)	174	✓ 10-5-61 7-29-75							
Huntington B (059-03832)	181	✓ 11-10-61							
Huntington B (059-03833)	182	✓ 11-10-61 7-5-89 a						4-13-90 fe	
Huntington B (059-03842)	194	✓ 6-12-62 7-7-89 a						4-13-90 fe	
Huntington B (059-03843)	195	✓ 6-18-62 8-11-89 a						3-14-90 fe	
Huntington B (059-03847)	199	✓ 2-25-63 6-26-89 a						3-23-89 fe	
Huntington B (059-03849)	201	✓ 3-21-63 7-7-89 a						9-5-90 fe	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03853)	205	5-21-63					3-14-90	ff	
Huntington B (059-03855)	207	8-12-63					4-27-90	ff	
Huntington B (059-03857)	209	6-24-64					7-27-90	ff	
Huntington B (059-03860)	212	11-4-64					5-10-90	ff	
Huntington B (059-03866)	218	10-5-65					3-14-90	ff	
Huntington B (059-03871)	227	11-21-50					4-22-90	ff	
Huntington B (059-00154)	232	4-20-66					3-14-90	ff	
Huntington B (059-00155)	234	8-17-66					7-27-90	ff	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03679)	8	✓ 3-7-22 1-10-46 a 5-1-91 Sup - A					1-29-92	4-2-46 ll	
Huntington B (059-03680)	9	✓ 1-7-22 7-17-22 a ✓ 10-3-22 a ✓ 10-29-23 ✓ 5-2-27 nd ✓ 4 d 10-11-89 a					7-27-90	ll	
Huntington B (059-03682)	11	✓ 4-22-22 2-26-87 a 4-25-88 ✓	✓				9-2-88	ll	
Huntington B (059-03683)	12	✓ 4-11-22 10-17-22 d 11-28-28 nd ✓ 4 d 5-8-29 nd 4 d 8-26-29 nd ✓ 4 d 10-11-89 a					7-27-90	ll	
Huntington B (059-03689)	18	✓ 1-10-23 8-21-23 ✓ d 6-14-27 ✓ d 7-18-27 ✓ d 10-11-89 a					7-27-90	ll	
Huntington B (059-03701)	31	✓ 3-11-25 6-5-25 a ✓ 9-30-46 nd ✓ d 10-11-89 a					4-5-91	ll	
Huntington B (059-03710)	42	✓ 12-11-25 6-12-46 d 3-30-50 nd ✓ 4 d 10-11-89 a					7-27-90	ll	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03727)	61	✓ 7-30-28 3-27-39 10-16-89 a	✓				7-27-90 fe		
Huntington B (059-03791)	136	✓ 12-7-50 10-16-89 a					8-14-90 fe		
Huntington B (059-03797)	142	✓ 8-13-51 11-2-52 10-16-89 a	✓				1-8-91 fe		
Huntington B (059-03801)	146	✓ 11-28-51 5-28-52 10-16-89 a	✓				1-8-91 fe		
Huntington B (059-03854)	206	✓ 7-3-63 10-16-89a					4-5-91 fe		
Huntington B (059-03867)	220	✓ 12-13-65 10-16-89a					1-8-91 fe		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B Formerly "P.E." 7; "Huntington B-PE Unit" 7.	7	04040	✓ 1-10-27 4-26-35 ac 12-21-72 ac			12-9-18 10 C			

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03718)	52	9-22-26							
Huntington B (059-03719)	53	9-22-26					3-8-91	fl	
		7-3-90a	p						
Huntington B (059-03720)	54	9-22-26					12-26-91	fl	Derrick removed
		9-12-90a							
Huntington B (059-03721)	55	9-22-26					4-5-91	fl	
		7-17-90 Sup a							

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Well Designation	Well No.	Notices (Date)	Records: Log: Well	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington B (059-03722)	56	10-19-26 4-20-76 cem 4-17-90a					1-23-92		Untie Wellhead
Huntington B (059-03723)	57	2-24-27 9-21-71a					3-20-91	fl	Derrick removed
Huntington B (059-03724)	58	3-23-27 5-25-76 cem 4-14-77 cem 8-6-90a					12-26-91	fl	
Huntington B (059-03725)	59	2-14-27 12-30-63 cem 7-17-90a					2-26-91	fl	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03730)	64	7-27-33					2-26-91	fc	
		7-29-71 a	✓						
Huntington B (059-03731)	65	2-20-34					12-26-91	fc	
		8-6-90a	✓						
Huntington B (059-03732)	66	9-5-33					12-26-91	fc	
		8-6-90a							
Huntington B (059-03733)	67	10-5-33					12-26-91	fc	
		8-6-90a							
Huntington B (059-03734)	68	4-13-34					8-3-90	fc	
		10-23-36	✓						
		2-18-92					6-5-92		
Huntington B (059-03741)	75	12-29-43					2-28-91	fc	
		9-17-90a							
Huntington B (059-03742)	76	1-31-44					12-26-91	fc	
		10-10-90a	✓						

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
							2-25-91		~~Water Flood~~
Huntington B	78	3-1-44						fl	Water Flood
(059-03226)		[illegible]							
Formerly "Huntington B-PE		[illegible]							
Unit" 78.		4-3-90 a							
							2-26-91		
Huntington B	79	3-20-44						fl	
(059-00947)		7-3-90 a							
Huntington B	~~84~~	~~8-25-44~~	Cancelled letter				11-13-50.		
							12-26-91		
Huntington B	84	11-20-52						fl	
(059-03746)		2-15-90 a							
		12-24-90 a							
		1-23-91 [illegible]							
Huntington B	85	12-26-44							Water Flood
(059-03747)		1-12-71 ea					8-17-72		
		7-29-71 [illegible]						fl	
		9-1-71 ea (per Jan 1992 - 4 yr annual)							
							4-5-91		
Huntington B	86	4-20-45						fl	
(059-03748)		[illegible]	[illegible]	Cancelled.					
		12-12-90 ea							
							3-8-91		
Huntington B	91-A	1-23-46						fl	Water Flood
(059-03752)		6-9-71 ea							
01		[illegible]							
		8-31-87 new							
		4-17-90 a							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03756)	95	1-8-47					8-31-90	ff	
Huntington B (059-03759)	98	1-13-47					9-5-90	ff	
Huntington B (059-03770)	109	1-7-48					8-14-90 ff		
Huntington B (059-03782)	125	11-14-50 1-24-90 a					8-31-90	ff	
Huntington B (059-00152)	127-A	7-6-48 1-26-90 a					9-5-90	ff	
Huntington B (059-03809)	155	7-8-53					7-27-90	ff	Steam Flood
Huntington B (059-03814)	162	8-26-57 1-24-90 a					3-8-91	ff	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03817)	165	1-8-60 [illegible] 1-24-91 CA					4-3-91	fc	Water Flood
Huntington B (059-03819)	167	10-26-60 7-2-90a					3-[illegible]-91	fc	
Huntington B (059-03825)	173	7-25-61 11-17-90a					3-8-91	fc	
Huntington B (059-03828)	176	10-23-61 10-22-71 [illegible] 5-23-90a					11-1-90	fc	
Huntington B (059-03834)	183	2-5-62 1-26-90 a					8-14-90 fc		
Huntington B (059-03835)	184	1-30-62 6-[illegible] 10-[illegible] 10-10-90a					12-26-91	fc	~~Steam Flood~~ 10-1-70
Huntington B (059-03836)	185	2-13-62 [illegible] 1-26-90 a					9-5-90 fc		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington B (059-03840)	190	3-9-62 ✓ 11-14-90a					3-30-91 fl		
Huntington B (059-03844)-01 Formerly "Huntington B" 196;	196-A	6-6-62 [illegible] 3-8-90 a					9-5-90 fl		~~Steam Flood~~ 10-1-70
Huntington B (059-03851)	203	5-21-63 ✓ 11-2-70 p 12-2-70 p&a 1-24-90 a					9-5-90 fl		Water Flood
Huntington B (059-03864)	216	11-8-65 ✓ 2-6-90 a					2-26-91 fl		
Huntington B (059-03865)	217	9-21-65 ✓ 2-8-90 a					9-5-90 fl		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	226	03876	2-10-66			3-8-91	fl		
Formerly "Huntington Unit" 226.	B-PE		6-5-90a						
Huntington B	228	00159	5-18-66			4-23-91	fl		
Formerly "Huntington Unit" 228.	B-PE		1-24-90	a					

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	231	00160	6-3-66 2-8-90a			2-26-91	fc		
Formerly "Huntington B-PE Unit" 231.									

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Well Designation	Well No.	A P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	249	20635	1-17-73			9-5-90			
Formerly "Huntington B-PE Unit" 249.			1-2-74 1-21-77 1-5-89						

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington B	251	20904	10-26-77				9-5-90	fl	
			2-27-90a						

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington C (059-03881)	1	✓ 2-23-21 10-10-21 ad 2-11-22 rep ✓ 2-8-22 ad 11-2-22 1-6-23 ad 5-26-23 rep ✓ 6-9-23 ad 6-26-23 rep ✓ 9-2-23 ad							
Huntington C (059-03882)	1-A	✓ 10-24-23 5-3-24 ad 7-16-24 ad 2-27-52 ad 6-17-42 sp/l					6-7-94	1C	
Huntington C	=2=	=8=11=44=	Cancelled letter 4-17-47.						
Huntington C (059-03883)	2	✓ 4-11-47 7-16-47 8-7-52 ad 11-2-54 ad 5-29-54 ad 12-3-69 ad w 40 ad 6-18-90 a 2-5-91 ad					4-23-91	fl	
Huntington C (059-03884)	3	✓ 10-24-47 12-20-65 ad w 4 ad 6-18-90 a					4-23-91	fl	
Huntington C (059-03885)	4	✓ 1-28-49 5-21-65 ad w 4 ad 6-18-90 a					6-1		
Huntington C (059-03886)	5	✓ 6-21-60 6-18-90a					6-18-91	1C	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington C (059-03887)	6	✓ 9-18-62 6-18-90a						[illegible]	
Huntington C (059-03888)	7	✓ 1-15-63 6-18-90a					5-30-91	[illegible]	Water Well
Huntington C (059-03889)	8	✓ 3-6-63 6-18-90a					6-18-91	[illegible]	
Huntington C (059-03890)	9-	✓ 9-1-65 9-15-65 rdv 6-6-94					3-11-91	[illegible]	



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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington D (059-03893)	1	2-23-21							
Huntington D (059-00162)	9	✓ 10-30-51 3-3-66 nunc pro tunc 8-30-66 ✓ 11-17-67 ✓ 6-5-89a					5-16-91	fl	Water Flood
Huntington D (059-03937)	22	✓ 2-16-66 5-22-89a					4-22-91	fl	
Huntington D (059-00164)	27	✓ 4-18-66 5-2-66 ✓ 1-19-89 a					4-22-91	fl	

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92312-705 3-67 5M ◊ S OSP

Operator [illegible]

Field Huntington Beach

Sec. 2, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington D (059-03894)	2	7-15-22 ✓ 6-11-26 a 11-5-76 a						[illegible]	
Huntington D (059-03895)	3	11-19-21 ✓ 11-21-88 a					10-30-89 a		
Huntington D (059-03896)	4	5-9-22 ✓ 5-9-23 ac 11-14-23 ac 12-28-23 ac 3-4-24 ac 5-24-24 a						[illegible]	
Huntington D (059-03897)	5	9-5-23 ✓ 5-2-24 ac 12-28-25 ac 3-10-26 ac 5-17-26 a						9-1-27	
Huntington D (059-03898)	7	9-17-51 ✓ 6-28-76 a					1-10-77 a		
Huntington D (059-03899)	8	9-27-51 ✓ 11-5-76 a					5-20-77 a		
Huntington D (059-03900)	10	4-22-52 ✓ 11-5-76 a					[illegible]		
Huntington D (059-03926)	11	7-23-52 ✓ 6-28-76 a					[illegible]		
Huntington D (059-03927)	12	2-19-53 ✓ 11-5-76 a					6-3-77 a		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington D (059-03928)	13	✓ 10-19-61 11-7-88 a					10-30-89 fl		
Huntington D (059-03929)	14	✓ 5-24-62 11-7-88 a					10-30-89 fl		
Huntington D (059-03930)	15	✓ 5-22-63 5-16-89 a							1-2-91 fl
Huntington D (059-03931)	16	✓ 10-8-63 7-10-89 a					3-28-90 fl		
Huntington D (059-03932)	17	✓ 9-8-64 5-22-89 a					7-27-90 fl		
Huntington D (059-03933)	18	✓ 2-1-66 1-12-90 a	a						1-2-91 fl
Huntington D (059-03934)	19	✓ 2-1-66 5-16-89 a							1-2-91 fl
Huntington D (059-03935)	20	✓ 1-26-66 2-11-89 a					7-17-90 fl		
Huntington D (059-03936)	21	✓ 2-7-66 11-1-84 a					7-27-90 fl		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington D (059-00163)	23	✓ 3-7-66 1-20-89a					1-29-90 fe		
Huntington D (059-03938)	24	✓ 3-1-66 1-16-89a					5-30-90 fe		
Huntington D (059-03939)	25	✓ 3-7-66 5-22-89a					2-27-90 fe		
Huntington D (059-03940)	26	✓ 3-8-66 1-6-89-a					12-3-90 fe		
Huntington D (059-00165)	28	✓ 6-6-66 4-4-67 ac 1-19-89a					2-5-90 fe		
Huntington D (059-00166)	29	✓ 6-8-66 8-11-89a					7-27-90 fe		
Huntington D (059-00167)	30	✓ 5-27-66 8-11-89a					8-14-90 fe		

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Huntington D	31	00168	8-17-66 7-8-89 NOI 5-25-89 c					1-2-91 fc	
Huntington D	32	00169	11-21-66 11-21-88a			10-30-89	ff		
Huntington D	33	20561	12-23-71 7-10-89 c			4-27-90	ff		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Bolsa (059-03321)	1	8-18-20							
Bolsa (059-03322)	1-A	8-3-65 8-1-80							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03323)	2	2-10-21				6-29-44			*See above.
Bolsa (059-03324)	3	1-8-21							*See above.
Bolsa (059-03325)	4	9-3-21							*See above.
Bolsa (059-03326)	5	11-19-21							*See above.

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Write.	Elec.					
Bolsa (059-03327)	6	12-30-21							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03328)	7	3-7-22							*See above.
Bolsa (059-03329)	8	6-1-22							
Bolsa (059-03332)	10	9-12-22 12-9-86 new							*See above.

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Bolsa (059-03333)	11	11-2-22							
Bolsa (059-03334)	12	11-2-22							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03335)	13	1-12-23							*See above.
Bolsa (059-03336)	14	9-21-23							*See above.
Bolsa (059-03337)	15	11-5-23							*See above.

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa (059-03338)	16	6-7-24							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03339)	17	6-21-24							*See above.
Bolsa (059-03341)	19	12-3-24							
Bolsa (059-03342)	20-A	1-6-25							*See above.
(Formerly "Bolsa" 20;		illegible							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Bolsa (059-03343)	21	5-12-25							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03344)	22	9-2-25							
Bolsa (059-03346)	24	12-30-25							*See above.
Bolsa (059-03347)	25-A	5-20-26							*See above.

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa (059-03348)	26	8-27-26							All wells this page Tran 9-8-90 to HUNTINGTON BEACH CO OG156 5-31-91
Bolsa (059-03349)	27	11-9-26							
		10-4-63 ar	L+d						
Bolsa (059-03350)	28	11-29-26							
		2-25-87 ar							
		4-2588 dy ltr							
Bolsa (059-03351)	29	3-28-27							
Bolsa (059-03352)	30	3-31-27							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa (059-03354)	32	10-24-27							Tidal Zone * Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Bolsa (059-03355)	33	12-9-27							*See above.
Bolsa (059-03356)	34	1-3-28							*See above.
Bolsa (059-03357)	35	3-2-28						11/14/40	

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Well Designation	Well No.	Notices (Date)	Records: Log: Well.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Rebuild	Records: Aban.	Remarks
Bolsa (059-03358) (Formerly "Bolsa" 36;	36-A	4-6-28							All wells this page Tran 9-8-90 to HUNTINGTON BEACH CO OG156 5-31-91
Bolsa (059-03359)	37	4-26-28							
Bolsa (059-03360)	38	5-9-28							
Bolsa (059-03361)	39	8-30-28							
Bolsa (059-03362)	40	9-27-28							

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Well Designation	Well No.	Notices (Date)	Records: Log: Well	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Bolsa (059-03363)	41	5-1-40							* Tran 9-8-90 to HUNTINGTON BEACH COMPANY OG156 5-31-91
Now "Bolsa-Huntington A L.W." Bolsa	42	1 - See new page 5-7-40 4-2-59 L-7-59							
Bolsa (059-03364)	43	2-23-51							*See above.
Bolsa (059-03365)	44	5-3-51							*See above.
Bolsa (059-03366)	45	5-22-51							*See above.

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa	46	8-20-51							All wells this page !
(059-03367)		8-20-51 [illegible]							Tran 9-8-90 to
		8-2-85 [illegible]							HUNTINGTON BEACH CO
									OG156 5-31-91
Bolsa	47	10-5-59							
(059-03368)									
Bolsa	48	1-25-61							
(059-03369)									
Bolsa	49	4-10-62							
(059-03370)									
(Formerly "Bolsa" C-49;									
Bolsa	50	4-20-62							
(059-03371)									

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Bolsa (059-03372)	51	✓ 8-1-62							All wells this page Tran 9-8-90 to HUNTINGTON BEACH CO OG156 5-31-91
Bolsa (059-03373)	52	✓ 10-26-62							
Bolsa (059-03374)	53	✓ 1-4-63							
Bolsa (059-03375)	54	✓ 2-1-63							
Bolsa (059-00126) Formerly "Bolsa" 55;	55-A	✓ 7-12-63							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Bolsa (059-03376)	56	8-27-63 ✓							All wells this page Tran 9-8-90 to HUNTINGTON BEACH CO OG156 5-31-91
Bolsa (059-03377)	57A	12-17-63 ✓ 11-17-63	2-20						
Bolsa (059-03378)	58	12-20-63 ✓							
Bolsa (059-03379)	59	5-7-64 ✓							
Bolsa (059-03380)	60	7-3-64 ✓							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa (059-03381)	61	7-17-64							All wells this page Tran 9-8-90 to HUNTINGTON BEACH CO OG156 5-31-91
Bolsa (059-03382)	62	7-31-64							
Bolsa (059-03383)	63	12-16-64							
Bolsa (059-03384)	64	12-16-64							
Bolsa (059-03385)	65	11-4-65							
Bolsa (059-00127)	66	7-22-66							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa-Huntington A L.W.	1	5-7-40					3-11-91	ff	
(059-03386)		4-2 5? 6-3-59 a							
(Formerly "Bolsa" 42		3-18-66 6-1-90 a							
Now "Huntington A - Bolsa L.W." 2 — See new page									
Bolsa-Huntington A L.W.	2	7-15-66							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Bolsa (059-03330)	9	8-30-22 ✓ 5-6-23 a							
Bolsa (059-03331)	9-A	4-2-23 ✓ 9-12-23 a dw 10-14-23 ✓						12-2-26 10	
Bolsa (059-03340)	18	8-13-24 ✓ 2-13-25 sdw ✓ 3-19-25 sdw ✓ 4-28-25 sdw ✓ 5-20-25 sdw ✓ 7-2-25 sdw ✓ 7-30-25 sdw ✓ 9-19-25 sdw ✓ 10-31-25 a ✓						6/3/26	
Bolsa (059-03345)	23	12-2-25 2-3-26 sdw 4-28-26 sdw 7-17-26 sdw 10-25-26 sdw 10-9-26 sdw 11-23-26 a						5/4/27	

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington E (059-03973)	42	10-1-65 5-24-89 ω					2-27-90 fc	✓	
Huntington E (059-04478)	47	✓ 11-8-65 5-24-89 ω					4-13-90 fc	✓	
Huntington E (059-04479)	48	✓ 12-13-65 11-12-75 ← dlw 5-24-89 ω					4-13-90 fc	✓	
Huntington E (059-04480)	49	✓ 12-31-65 7-26-74 ← dlw 2-5-75 ← dlw 10-16-75 ← dlw 5-24-89 ω					2-27-90 fc	✓	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-03941)	1	2-23-21 7-20-22 12-10-71 a							
Huntington E (059-03942)	1-A	8-7-22 4-13-23 5-24-23 12-6-71 a							
Huntington E (059-03950)	10	8-23-43 2-7-66 ad 5-10-71 ndu 9-5-71 a					1-20-72 fe		
Huntington E (059-00171)	11	10-27-43 2-28-68 ad 2-14-74 a						12/19/74	Water Flood
Huntington E (059-03951)	12	2-14-44 7-19-89 a	a				5-11-90 fe		
Huntington E (059-03952)	14	1-14-44 4-30-51 a 2-1-65 a 1-19-89 a					5-11-90 fe		
Huntington E (059-03953)	17	4-10-44 2-5-70 exp 1-19-89 a					1-24-90 fe		Water Flood
Huntington E (059-03954)	18	11-27-50 3-6-74 a					3-26-90 fe		
Huntington E (059-03956)	20	1-15-51 8-5-71 a							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-03960)	24	10-23-61 ✓ 1-19-89a					1-29-90	fe	
Huntington E (059-00172)	25	5-14-62 ✓ 4-25-66 c 2-27-76 c 1-19-89a	[illegible]				1-19-90	fe	Water Flood ~~Steam Flood~~ 9-13-77.
Huntington E (059-00173)	27	9-19-62 ✓ 5-24-66 c 4-29-66 c 1-19-89a	✓				4-13-90	fe	Water Flood
Huntington E (059-03962)	29	10-25-62 ✓ 1-19-89 a					2-5-90	fe	
Huntington E (059-03963)	30	4-15-63 ✓ ~~5-15-14 c 5-22-76 c 5-24-66 c~~ 5-24-89 a	~~Fluid~~	~~Sonic~~	✓	Cancelled	4-13-90 9-23-77.	fe	~~Water Flood~~ ~~Steam Injector~~
Huntington E (059-03965)	32	6-12-63 ✓ 3-30-89a					1-29-90	fe	
Huntington E (059-03968)	35	12-7-64 ✓ 3-24-89 a					1-29-90	fe	
Huntington E (059-03969)	36	12-21-64 ✓ 1-19-89a					2-27-90	fe	
Huntington E (059-03972)	41	12-28-65 ✓ 5-24-89a					5-11-90	fe	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington E-A Line Well (059-03668)	2	✓ 12-24-63 8-2-83 a					1-23-90	fc	
Formerly "E-A Line Well" 2;									
Huntington E-A Line Well (059-04101)	5	✓ 1-7-66 11-28-83 a-w 8-11-89 a					5-30-90	fc	
Huntington E-A Line Well (059-04102)	6	✓ 1-7-66 7-2-75 a-w 8-11-89 a					5-11-90	fc	

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-03944)	3	3-11-21					1-10-90 fe		Acquired 9-15-21 from BOLSA CHICA OIL CORP.
Formerly "Augur" 1;									
Huntington E (059-03946)	5	1-16-22					1-2-91 fe		
Huntington E (059-03948)	7	7-20-22						6-5-57	
Huntington E (059-03949)	9	10-10-24						5-6-26	
Huntington E (059-03958)	22	10-10-51						8-11-78	
Huntington E (059-03961)	26	7-2-62							1-2-91 fe
Huntington E (059-00174)	28	10-4-62					8-14-90 fe		
Huntington E (059-03964)	31	6-4-63					1-2-91 fe		
Huntington E (059-03966)	33	6-30-63					4-27-90 fe		

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-03967)	34	✓ 9-25-64					5-1-90 fl	5-1-90 fl	
Huntington E (059-03970)	38	✓ 8-18-65 1-20-89 a					1-2-91 fl		
Huntington E (059-00954)	40	✓ 10-27-65 3-27-69 a ✓					1-10-77 fl		
Huntington E (059-03974)	43	✓ 10-4-65 1-20-89 a					1-2-91 fl		
Huntington E (059-03975)	44	✓ 10-4-65 1-20-89 a					1-2-91 fl		
Huntington E (059-04477)	46	✓ 12-2-65 8-1-89 a					7-27-90 fl	7-27-90 fl	
Huntington E (059-00176)	50	✓ 12-13-65 1-6-66 a ✓ 1-20-89 a					1-2-91 fl		

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92312-705 3-67 5M 0 8 OSP

Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 11, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-03943)	2	6-20-21							
Huntington E (059-03945)	4	10-15-21							
Huntington E (059-03947)	6	3-7-22							
Huntington E (059-00170)	8	4-1-24							
Huntington E (059-03957)	21	6-11-51					2-5-90	1	
Huntington E (059-03959)	23	4-9-53					4-25-90	1	

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Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 11, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington E (059-00178)	54	7-26-66 ✓ 5-16-89 a.					4-13-90	fc	
Huntington E (059-00179)	55	8-2-66 ✓ 5-16-89 a.					2-5-90	fc	
Huntington E (059-00180)	56	7-20-66 ✓ 1-20-89 a					2-15-90	fc	
Huntington E (059-00181)	57	7-20-66 ✓ 1-20-89 a					2-5-90	fc	
Huntington E (059-20004)	59	1-18-67 ✓ 6-6-89 a.					5-15-90	fc	
Now "Park" 2; see new sheet. Huntington E - Park	2	9-28-66 ✓							

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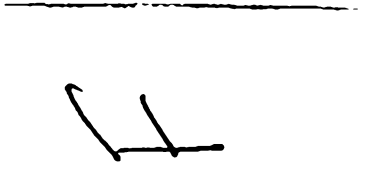
92312-705 3-67 3M ◊ B OSP

Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington E. (059-03955)	19	12-15-50							
Huntington E (059-00175)	37	8-18-65 1-20-89 a						5-11-90 fl	
Huntington E (059-03971)	39	8-18-65 6-6-89 a						5-15-90 fl	
Huntington E (059-04476)	45	10-27-65 6-6-89 a						5-15-90 fl	
Huntington E (059-04481)	51	3-29-66 7-3-89 a						5-14-90 fl	
Huntington E (059-00177)	52	3-28-66 1-20-89 a						5-14-90 fl	
Huntington Fee (059-04105)	1	10-11-26 9-13-90 a						12-27-91 fl	
Formerly "Fee" 1;									

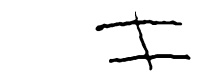


STATE OF CALIFORNIA
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Well Designation	Well No.	Notices (Date)	Records: Log: Write.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington F (059-04103)	1	5-20-22 ✓ 5-26-23 ✓ 5-29-23 ✓ 8-22-23 ✓ 11-14-23 ✓ 12-20-23 ✓ 5-7-24a ✓						9/5/24	
Huntington F (059-04104)	2	5-20-22 ✓ 5-7-24a ✓						10/8/24	



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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04132)	26	10-6-47 ✓ 10-3-78a						5-9-79 fl	
Huntington H (059-04133)	27	10-23-47 ✓ 10-3-78a 5-19-88Aa						5-9-79 fl 011-1-89 fl	
Huntington H (059-04142)	36	3-30-48 ✓ 2-20-79 a						fl 3-18-80	
Huntington H (059-04144)	38	5-10-48 ✓ 3-31-54a 11-19-87Aa						5/3-54 fl 6/15/88 fl	
Huntington H (059-00182)	45	10-31-66 ✓ 6-26-90a					12-31-91 fl		

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Operator STANDARD - OIL CO. OF CALIFORNIA
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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H	46	10-31-66					12-26-91	fl	
(059-00183)		6-26-90a							
Huntington H	47	10-31-66					12-3-90	fl	
(059-00184)		6-26-90a							
Huntington H	48	9-30-66					10-26-91	fl	
(059-00185)		6-26-90a 1-8-91 2U 2W							

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04107)	1	8-13-26						12 5-7-80	
		2-20-79 a							
Huntington H (059-04108)	2	8-9-26						8-4-78 12	Water Flood
		1-12-71 a							
		5-31-73 a							
		10-26-95 dupl a							
Huntington H (059-04109)	3	8-13-26							
		4-7-72 a	Voided		4-10-72		2-15-72 12		
		10-26-95 dupl a							
Huntington H (059-04110)	4	8-13-26						5-8-79 12	
		10-3-78 a							
Huntington H (059-04111)	5	8-15-26						2-5-40 12	
		5-19-88 da							

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Operator: [illegible]

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington H (059-04112)	6	9-8-26 [illegible] 2-20-79 a 5-19-88 a						11-21-69 fl	
Huntington H (059-04113)	7	9-8-26 [illegible] 2-20-79 a						fl	Derrick removed 3-14-80
Huntington H (059-04114)	8	9-8-26 [illegible] 5-31-[illegible] 2-20-79 a						fl 5-7-80	
Huntington H (059-04115)	9	9-16-26 [illegible] 12-12-68 a 1-20-89 AA 7-21-94 SUP/A		6-26-92	Core	Gad	12-15-94	fl	
Huntington H (059-04116)	10	9-16-26 [illegible] 12-12-68 a						3-2-69 AE	Derrick removed

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington H (059-04117)	11	10-8-26							
								fl	3-18-80
		2-20-79a							
Huntington H (059-04118)	12	10-8-26							
		2-20-79a						fl	3-24-80
Huntington H (059-04119)	13	10-11-26							
Huntington H (059-04120)	14	10-8-26							
Huntington H (059-04121)	15	10-8-26							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04122)	16	10-13-26 5-25-88 Sup Ca.					2-7-89		
Huntington H (059-04123)	17	10-22-26 2-10-27 [illegible]							
Huntington H (059-04124)	18	11-1-26 1-20-89 AA 12-20-94 Sup-A			6-26-92	cancelled		11-30-95	
Huntington H (059-04125)	19	10-22-26 7-19-35 [illegible] 6-23-39 [illegible] 10-3-78 [illegible]					6-12-89		
Huntington H (059-04126)	20	11-1-26 12-21-26 [illegible] 1-3-27 [illegible] 5-25-88 Sup. A.					11-21-89		

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04127)	21	11-1-26							
Huntington H (059-04128)	22	12-17-26							
Huntington H (059-04129)	23	11-29-26							
Huntington H (059-04130)	24	12-28-26 5-19-88aa						11-21-89	
Huntington H (059-04131)	25	2-24-27 11-18-87aa					8-29-56		

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Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 10, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04134)	28	11-6-47 ✓ 10-3-7PA 6/24/88 Sup. A.						6-12-79 11-21-89	
Huntington H (059-04135)	29	9-29-47 ✓ 6/24/88 Sup. A.						11-21-89	
Huntington H (059-04136)	30	11-26-47 ✓ 11-30-52A							
Huntington H (059-04137)	31	12-10-47 ✓ 5-25-88 Sup. A.						5/18-79	
Huntington H (059-04138)	32	12-22-47 ✓ 1-30-52A						11-21-89	
Huntington H (059-04139)	33	1-20-48 ✓ 6/24/88 Sup. A.							
Huntington H (059-04140)	34	2-10-48 ✓ 7-1-52A 11-18-84AA					8-19-88		
Huntington H (059-04141)	35	3-10-48 ✓ 2-26-52A						4-20-79	
Huntington H (059-04143)	37	5-28-48 ✓ 4-28-52A							

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Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 10, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington H (059-04145)	39	5-19-48 11-18-91sa					8-12		
Huntington H (059-04146)	41	4-14-48							
Huntington H (059-00186)	49	10-11-66 6-26-90a					4-22-91		
Huntington H (059-20075)	50	7-12-67 2-20-79 a 5-19-88 A					2	5-7-80 ll 5-30 ll	

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Operator [illegible]

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Field Huntington Beach

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03726 3-63 5M △ BPO

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
		✓							
Pacific Electric	222	5-7-64					1-24-92		Water Flood
(059-04168)		6-25-70 ✓	✓					ll	
		9-14-90a							
Formerly "P.E." 222;									
		✓							
Pacific Electric	227	3-24-64					12-26-91		
(059-04169)		5-11-64 ✓						ll	
		1-16-69 ✓							
Formerly "P.E." 227;		9-14-90a							

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DIVISION OF OIL AND GAS

Operator CHEVRON U.S.A. INC.
Field Huntington Beach County
Sec. , T. , R. , B. & M.
Sec. 3-6S-11W SB B&M

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Pacific Electric	250	20883	3-3-77 10-10-90a			12-26-91			

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Operator Standard Oil Co. of Calif.
Field Huntington Beach
Sec. 4, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Pacific Electric (059-04035)	2	10-22-26 1-14-69 SI 4-9-90 a	W				1-8-91 jc		Derrick removed.
All wells on this page changed from "P.E." lease to "Pacific Electric" lease.		1-29-73							
Pacific Electric (059-04056)	23	6-27-34 2-7-73 a 6-15-77 a	1-a-c a						
Pacific Electric (059-04057)	24	8-23-34 2-6-36 a 3-11-39 a 11-16-62 a 2-15-93 a 6-11-68 a	A-c					10-8-68 AS	
Pacific Electric (059-04058)	25	9-28-34 2-7-39 a 3-26-62 a 6-1-73 a 1-17-77 a 3-23-90 a	c c-c				9-5-90 jc		
Pacific Electric (059-04059)	26	1-10-35 11-2-56 a 3-18-59 a-c 11-12-60 a 2-19-69 a 3-28-90 a	c				9-5-90 jc		Derrick removed.
Pacific Electric (059-04064)	31	10-17-44 1-1-57 a 9-19-73 a-c 2-28-90 a	c				9-5-90 jc		
Pacific Electric (059-04067)	34	1-26-48 8-26-71 a 2-3-75 a					2-4-81 AC		
Pacific Electric (059-04068)	35	2-23-48 8-24-71 a 11-12-75 a					5-2-76 AC		
Pacific Electric (059-04069)	36	3-10-48 6-25-70 a 6-15-77 a							Water Flood

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03726 3-69 5M △ SPO

Operator [illegible]

Field Huntington Beach

Sec. 4, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Pacific Electric (059-04071)	38	5-24-54 ✓ [illegible]					1030-40 fl		
All wells on this page changed from "P.E." lease to "Pacific Electric" lease.		1-29-73							
Pacific Electric (059-04073)	46	12-8-60 ✓ 10-6-80 2a W 4-2-90 a					9-5-90 fl		
Pacific Electric (059-04074)	47	3-13-61 ✓ 4-2-90 a					9-5-90 fl		
Pacific Electric (059-04159)	59	11-5-63 ✓ 4-19-90 a					12-26-91 fl		

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Field Huntington Beach

Sec. 14, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log: Write	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Pacific Electric (059-04162)	140	2-17-55 2-20-79 a 3-19-80	fl						
Formerly "Huntington Beach" 101; "P.E." 140;									
Pacific Electric (059-04164)	141	3-11-55 10-7-88 a					10-30-89	RR	
Formerly "Huntington Beach" 102; "P.E." 141;									

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Well Designation	Well No.	Notices (Date)	Records: Log Wrtl.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Pacific Electric (059-04034)	1	10-19-26					1-23-	92 ll	Water Flood
~~Pacific Electric (059-04034)~~ ~~2~~		6-25-70 c 2-27-78	w/ ltr	~					
Formerly "P.E." 1;		2-20-79 2-30-89 3-21-90	ru supra						
Now "State 91 MZU" 343-3; see new operator.									Trans. 4-1-72 to SIGNAL OIL & GAS CO., OPR., Form 156, 5-1-72.
P.E. (059-04036) 2	3	12-10-26 4-6-44 a	-						T.D. for 1 well
Pacific Electric (059-04037)	4	12-27-26 5-26-30 c 12-7-77 a					7-28-75	20	
Formerly "P.E." 4;									
Pacific Electric (059-04038)	5	2-7-27 2-17-89 a					6-21-91	LC	
Formerly "P.E." 5;									

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Now "State 91 MZU" 343-6; see new operator.									
P.E.	6	2-14-27							
(059-04039) 2									Tideland well
									Trans. 4-1-72 to SIGNAL OIL & GAS CO., OPR., Form 156, 5-1-72.
Changed 12-21-72 to "Huntington B-PE Unit" 7; see new page.									
P.E.	7	1-10-27					9-5-90		
(059-04040)		4-24-35 Abd.					fe		
See next page for "Pacific Electric" 7.									
Now "State 91 MZU" 343-8; see new operator.									
P.E.	8	4-13-27							See above.
(059-04041) 2		4-6-44 Abd.							Tideland well
Now "State 91 MZU" 343-9; see new operator.									Trans. 4-1-72 to SIGNAL OIL & GAS CO., OPR., Form 156, 4-19-72.
P.E.	9	5-6-27							
(059-04042) 2									Tideland well
Pacific Electric	10	5-17-27					3-26-91		
(059-04043) 2		4-6-44 Abd. 1-12-65 Abd. 3-1-89 a					fe		Tideland well
Formerly "P.E." 10;									

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DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Operator CHEVRON USA INC.
Field Huntington Beach County
Sec. ____, T. ____, R. ____, ____ B. & M.
Sec. 10-6S-11W SB B&M

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Pacific Electric	7	04040	1-10-27						
Formerly "P.E." 7.			4-26-35 nc 12-21-72 ac 6-30-77 ac						
"Huntington B-PE Unit" 7.			4-7-8[illegible] Canc. 5/6/82 3-23-90a						

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Pacific Electric (059-04044)	11	6-28-27 8-11-43 ltr 2-15-76 Rel'd					3-26-91	fe	Derrick removed
All wells on this page were formerly "P.E." lease wells.		8-1-89 w							
Pacific Electric (059-04045)	12	6-30-27 2-13-43 ltr 6-20-67 rel'd 6-26-67 order 10-17-67 rel'd 11-6-67 rel'd 12-7-77 c							
Pacific Electric (059-04046)	13	6-30-27 8-17-27 ltr 11-1-27 rel 1-9-28 ltr 11-19-43 ltr 12-26-50 rel						5-24-77	Derrick removed
Pacific Electric (059-04047)	14-A	7-11-27 8-20-27 ltr 11-19-43 ltr					3-26-91	fe	
(Formerly "P.E." 14;		2-16-65 rel'd 2-1-89 w							
Pacific Electric (059-04048)	15	8-9-27 [illegible] 10-15-35					5-17-76	LL	

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Operator [illegible]

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Pacific Electric (059-04049)	16	6-14-28 4-9-90a					9-5-90 fc		Derrick removed
All wells on this page were formerly "P.E." lease wells.									
Pacific Electric (059-04050)	17	7-27-33 9-24-73 5-17-84 new 3-23-90 a					9-5-90 fc		
Pacific Electric (059-04051)	18	7-27-33 7-22-49 11-20-75 new 12-12-77 new 3-23-90a					12-10-90 fc		Derrick removed
Pacific Electric (059-04052)	19	9-5-33 [illegible] 3-29-77a							
Pacific Electric (059-04053)	20	10-5-33 [illegible] 6-15-77 a	= 7-5-77 new						

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92312-709 8-67 5M ◊S OSP

Operator STANDARD OIL CO. OF CALIF.

Field Huntington Beach

Sec. 10, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Pacific Electric (059-04054)	21	2-20-34							
All wells on this page were ~~formerly "P.E." lease wells.~~									
Pacific Electric (059-04055)	22	4-13-34							Gen. letter 1-3-64.
		7-29-71							
		5-31-73a							
Pacific Electric (059-04060)	27	9-22-43					5-31-74		
		7-29-71							
		5-31-73a							
Pacific Electric (059-04061)	28	12-3-43					9-5-90		
		3-28-90a							
Pacific Electric (059-04062)	29	5-19-44					5-31-74		
		5-31-73a							
Pacific Electric (059-04063)	30	9-22-44							
		5-31-73a							
Pacific Electric (059-04065)	32	6-7-46							
		6-15-77a							
Pacific Electric (059-04066)	33	11-20-47							
		8-29-77a							

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Field Huntington Beach

Sec. 10, T. 6 S, R. 11 W, S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log: Wrtl.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
All wells listed below were formerly "P.E." lease wells:									
Pacific Electric (059-04070)	37	4-21-49 ✓ 2-13-51 nd ✓ 5-31-73 a ✓					1-4-74 fl		
Pacific Electric (059-04072)	45	4-23-58 ✓ 7-29-58 a ✓ 3-8-89 a					3-26-91 fl		
Pacific Electric (059-04075)	48	6-5-61 ✓ 8-25-70 p ✓ 5-17-94 ac 4-2-90 a ✓					9-5-90 fl		
Pacific Electric (059-04163)	49	8-7-61 ✓ 3-17-62 p 12-6-62 ✓ 3-27-90 a ✓	✓				9-5-90 fl		
Pacific Electric (059-04151)	50	10-17-62 ✓ 9-14-90 a ✓					12-26-91 fl		

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Pacific Electric (059-04152)	51	9-24-62 [illegible]					12-26-91 fl		
All wells on this page were formerly "P.E." lease wells.									
Pacific Electric (059-04153)	52	10-30-62 3-13-84 a					3-26-91 fl		
Pacific Electric (059-04154)	53	1-23-63 5-10-63 p 10-12-83 a 3-1-84 a					3-26-91 fl		
Pacific Electric (059-00189)	54	2-5-63 10-12-84 ac 3-10-89 a					3-26-91 fl		
Pacific Electric (059-04155)	55	3-6-63 7-31-63 a 8-23-63 dw 11-12-85 ac					[illegible] fl		

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Pacific Electric (059-04156)	56	✓ 4-16-63 3-1-89 a					1-8 ✓	91	
All wells on this page were formerly "P.E." lease wells.									
Pacific Electric (059-04157)	57	✓ 4-24-63 3-10-89 a 7-27-90 L&R a					4-10-91		
Pacific Electric (059-04158)	58	✓ 5-21-63 5-31-73 a					5-31-74		
Pacific Electric (059-04160)	61	✓ 3-25-65 9-18-9[illegible] a					12-26-91		

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Pacific Electric (059-04161)	139	3-7-55 ✓ 7-24-67 ~							
Formerly "P.E." 39;		7-24-77 ~							
Pacific Electric (059-04165)	142	5-27-55 ✓ 5-31-73 ~					1-6-76 RL		
Pacific Electric (059-04166)	143 ✓	7-26-55 10-15-75 ~					3-4-76 RL		
Pacific Electric (059-04167)	144	8-11-55 9-15-55 sand ~ 10-15-75 ~					5-17-76 RL		
(formerly "P.E." 244;									
Pacific Electric (059-04170)	232	6-5-64 ✓ 9-19-90 ~					12-26-91 RL		



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Operator [illegible]

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Huntington K	1	8-17-66					2-20-90 fe		
(059-00187)		8-24-66 Add'l 10-6-66 ac 11-1-66 ac							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Park (059-20024)	1	2-23-67 ✓ 11-7-88a					2-20-90 fe		
Park (059-00190) (Formerly "Huntington E-Park" 2;	2	9-28-66 5-16-89a					4-13-90 fe		
Park (059-00191)	3	11-21-66 ✓ 11-7-88a					2-20-90 fe		
Park (059-00192)	4	11-9-66 ✓ 6-6-89a					2-28-90 fe		
Park (059-00193)	5	12-19-66 ✓ 6-6-89a					2-16-90 fe		

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Operator [illegible]
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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Park	6	12-2-66					2-26-91	fl	
(059-00194)		11-3-89 a							
Park	7	2-23-67					2-27-90	fl	
(059-20025)		[illegible]							
Park	8	1-3-67					4-23-91	fl	
(059-20001)		5-16-89 a							
~~Park~~	~~9~~	~~3-22-67~~	Cancelled, Form 165, 9-11-68.						Untapped to date 3/7-1/82
~~(059-20035)~~									

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
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Field Huntington Beach County _____

Sec. 11, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
POPE	1	04029	✓ 4-15-55					3/8/94	Acquired from PRODUCING PROPERTIES, INC.,
Formerly "Neaves et al" 1;			2-26-86					3-25-87	4-1-63, Form 156, 5-27-63.

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Operator ~~STANDARD OIL CO. OF CALIFORNIA~~

Field Huntington Beach

Sec. 11, T. 6 S., R. 11 W., S. B. B. & M.

Well Designation	Well No.	Notices (Date Received)	Records						Remarks
			Log		Core	Hist.	Rework	Aban.	
			Writ.	Elec.					
Superior-Gerhart	1	1-18-54							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(C59-04173)		7-18-54a							Form 156, 5-27-63
(Formerly "Gerhart" 1;									

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Talbert Comm.	1	3-24-22 5-21-23 Sa 4-23-34a						5-16-34	This lease quitclaimed to T. B. Talbert et at 5-16-34; no change in name on record. RDB letter 7-19-34 on well record "Talbert Comm."1 Transferred to BELOIL CORPORATION 6-1-52. Form 156, 6-12-53.
Talbert Comm. (059-04188)	2	8-18-23 4-10-34a						8-16-34	This lease quitclaimed to T. B. Talbert et at 5-16-34; no change in name on record. RDB letter 7-19-34 on well record "Talbert Comm."1

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Operator EXXON CO. U.S.A. (formerly ESSO OIL CO. OF CALIFORNIA)

Field Huntington Beach

Sec. 14, T. 6 S., R. 11 W., S. B. B. & M.

Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Thompson	1	12-20-54							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(0059-04148)		12-5-55 P&A 8-21-62						5-28-63	Form 156, 5-27-63.
(Formerly "FJN" 1;		6/22/62	Sup. a						

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Thomson (059-04190)	1	2-1-21 ✓ 1-16-22 ✓ 3-14-22 ✓ 7-[illegible]-22 ✓ 11-30-22 ✓ 8-27-24 ✓ 10-15-24 ✓ 10-16-25 ✓ 7-7-86 ✓						1/6-7/26 12-30-26	
Thomson (059-04191)	2	8-30-22 ✓ 5-2-23 ✓ 4-13-26 ✓ 7-[illegible]-26 ✓ 2-[illegible]-28 ✓ 6-8-90 a							
Thomson	3	4-13-23 ✓ 9-15-23 ✓ 11-13-23 ✓ 11-26-23 ✓ 4-10-24 ✓						9/17/24 10/11/24	This well is in Sec. 11 instead of Sec. 12-6S-11W Letter to Co. 8-5-47. mr
Thomson (059-04193)	4	1-8-24 ✓ 4-1-24 ✓ 5-24-24 ✓ 7-25-24 ✓ 9-16-24 ✓						2/4/25	
Thomson (059-04194)	5	12-10-24 ✓ 2-13-25 ✓ 5-28-25 ✓ 6-3-25 ✓ 8-31-25 ✓ 3-19-26 ✓ 4-6-26 ✓ 1-28-33 ✓ 8-15-84 NW 6-8-90 a					12-26-91		Plug 8-16-84

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Well Designation	Well No.	Notices (Date)	Records: Log: Well.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Thomson (059-04195)	6	4-6-25 6-11-25 7-18-25 2-2-26 2-2-26 12-10-68							
Now "Thomson-Dameron" 1; see new page.									
Thomson (059-04196)	7	4-28-26 10-17-29 4-19-43 12-13-43							
Thomson (059-04197)	8	8-4-26 12-8-26 12-29-26 3-12-27 10-3-27 10-29-27 3-12-28 11-4-29 11-21-29 9-11-50							
Thomson (059-04198)	9-A	9-17-28 4-20-54 2-20-64					12-27-91	fl	
(Formerly "Thomson" 9'		8-12-80 6-8-90a	new						
Thomson	10	7-9-29 8-12-29 7-5-39 6-21-46							Derrick removed, letter 7-8-46, Transferred to TEXACO INC. 5-1-64. Form 156, 6-11-64

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Well Designation	Well No.	Notices (Date)	Records: Log: Wrtt.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Thomson	11	11-26-29							Transferred to TEXACO INC. 5-1-64. Form 156, 6-11-64
Thomson (059-04199)	12	4-7-30 ✓ 2-1-36 RC ✓ 7-24-36 S ✓ 2-25-41 A ✓						4/12/41	6-6-91 ll
Thomson (059-04200)	13	7-14-30 ✓ 2-13-31 RC ✓ 4-22-31 S ✓ 7-1-31 S ✓ 8-17-31 S ✓ 10-11-31 S ✓ 12-19-56 A	Surv. from Cor.					6/12/57	
Thomson	14	5-18-37 ✓ 6-12-46 A ✓	Lor						Transferred to TEXACO INC. 5-1-64. Form 156, 6-11-64
Thomson (059-04201)	15	8-11-37 ✓ 6-8-90 a ✓					6-6-91 ll		

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date)	Records: Log Wrte.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Thomson (059-00195)	✓ 16	12-21-53 10-30-64 21 a ✓ 9-19-66 12c 10-3-68 10 9-24-69 ~~dw~~ dw 6-8-90a					12-27-91 fc		
Thomson (059-04202)	✓ 17	1-15-54 2-1-54 =dw 6-15-90 a					12-27-91 fc		
Thomson (059-04203)	✓ 18	3-26-54 6-3-54 =dw ✓ 4-7-54 a						2/3/55 fc	
Thomson (059-04204)	19	✓ 7-10-57 2-26-76 ~~dw~~					2-21-77 fc		
Thomson (059-04205)	20	✓ 10-24-57 5-1-80 ✓ ~~dw~~ rew 2-25-83 6-8-90a					4-5-91 fc		

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Well Designation	Well No.	Notices (Date)	Records: Log Write	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Thomson (059-04206)	21	✓ 2-6-58; 3-11-58 rd; 6-8-90a					12-26-91 fe	fe	
Thomson (059-04207)	22	4-30-58; 6-8-90a					12-26-91 fe	fe	
Thomson	23	✓ 6-19-58							Transferred to TEXACO INC. 5-1-64. Form 156. 6-11-64
Thomson (059-04208)	24-A	✓ 10-5-59; 10-19-64 rd; 2-2-65 del; 6-15-90a					6-6-91 fe	fe	
Thomson (059-04209)	25	✓ 7-15-63; 6-15-90a					12-26-91 fe	fe	

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Thomson (059-04210)	26	9-28-64 ✓ 6-15-90a					4-5-91	fl	
Thomson (059-04211)	27	10-9-64 ✓ 3-12-90a					8-2-90	fl	
Thomson (059-04212)	28	11-4-64 ✓ 6-15-90a					4-5-91	fl	
Thomson (059-04213)	29	11-6-64 ✓ 6-15-90a					12-26-91		
Thomson (059-00196)	30	10-21-66 ✓ 6-15-90a					12-26-91	fl	

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Operator STANDARD OIL CO. OF CALIFORNIA

Field Huntington Beach

Sec. 12, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Thomson (059-09214)	31	4-12-65 ✓ 6-15-90a					12-26-91	fc	
Thomson (059-20021)	32	2-20-67 ✓ 6-15-90a					12-26-91	fc	
Thomson (059-20047)	33	4-10-67 ✓ 6-15-90a					12-26-91	fc	
Thomson (059-20559)	34	12-21-71 ✓ 12-9-85 dw 6-15-90a					4-5-91	fc	
Thomson 059-21056	35	5-27-81 ✓ 2-1-83 dw 3-12-90a					8-2-90	fc	

RESOURCES AGENCY OF CALIFORNIA
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Operator CHEVRON U.S.A. INC.
Field Huntington Beach County Los Angeles
Sec. 12, T. 6S, R. 11W, S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 037	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Thomson	36	21057	~~5-27-81~~						
Thomson	37	21055	~~5-21-81~~						

RESOURCES AGENCY OF CALIFORNIA
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Field Huntington Beach County Orange

Sec. 12, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Thomson-Dameron	1	04196	4-28-46						
Formerly "Thomson" 7;			[illegible]						
			4-20-88 a					1-23-89	
Thomson-Dameron	2	20598	6-22-72						

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Thomson (059-04192)	3	4-12-23 9-15-23 Sund 11-23-23 Sund 11-26-23 Sund 4-10-24 Sund 5/16/79 Abnd						9/12/24 12/11/24	Ofs 1-10-80 0

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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Field Huntington Beach

Sec. 34, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Jones Comm. (059-04482)	1	2-16-22 6-491 Sup-A					4-28-92	fl	Well abandoned in July 1924; closing record and marking abandonment on map & model 8-27-31.
Jones Comm. (059-04483)	2	9-12-21 10-31-89 a					9-5-90 fl		
Jones Comm. (059-04484)	3	12-23-21 10-31-89 a					9-5-90 fl		
Jones Comm. (059-04485)	4	7-21-24 8-22-80 new 1-23-81 new 10-31-89 a					9-20-90 fl		
Jones Comm. (059-04486)	5	4-24-25 10-31-89 a					3-11-91 fl		

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Jones Comm. (059-04987) (Formerly "Jones Comm." 6; "Jones Community" 6-A	6-B	7-29-30 11-2[illegible] 3-27-[illegible] 5-6-65 [illegible] 7-21-65 redr 9-14-90 a					6-15	9-91 fc	
Jones Community (059-04988)	7	2-7-44 1-25-52 redr 3-16-53 a 4-13-53 a 5-1-91 Sup. A						7-11 canc. 10-15-92	
Jones Community (059-04989)	8	4-17-44 10-31-89 a						3-11-91 fc	
Jones Community (059-04990)	9	1-31-47 5-15-62 redr 2-27-90 a						3-11-91 fc	
Jones Community (059-04991)	10	6-11-48 9-14-90 a						6-18-91 fc	

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Operator STANDARD OIL COMPANY OF CALIFORNIA
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Well Designation	Well No.	Notices (Date)	Records: Log: Well	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Jones Community (059-04492)	11	2-11-49 ✓ 6-5-[illegible] 2-27-90a		Sept 9			9-5-90 fc		
Jones Community (059-04493)	12 ✓	5-25-51 1-2-52 nd 3-28-75 2-27-90a					12-3-90 fc		Water Zone abd
Jones Community (059-04494)	13	3-4-52 ✓ 10-2-62 nd 2-27-90a					9-5-90 fc		
Jones Community (059-04495)	14 ✓	9-5-52 9-14-90a					6-18-91 fc		
Jones Community (059-04496)	15 ✓	4-20-62 2-27-90a					9-5-90 fc		

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Operator: [illegible]

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Jones Community (059-04497)	16	✓ 9-19-62 9-W-90a					[illegible]	✓	
Jones Community (059-04498)	17	✓ 1-29-63 2-27-90 a					9-5-90 fl		
Jones Community (059-04499)	18	✓ 7-15-63 2-27-90a					9-5-90 fl		
Jones Community (059-00185)	19	✓ 7-14-65 11-2-66 ac 9-W-90a					2-27-91 fl		

ATLANTA AVE
COMM

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

Operator [illegible]
Field Huntington Beach County Orange
Sec. 14, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Atlanta Ave. Comm.	1	03308	10-21-54 10-30-87a			10-30-89	ff		
Atlanta Ave. Comm.	2	03309	12-29-54 10-30-87a			10-30-89	ff		
Atlanta Ave. Comm.	3	03310	1-27-55 10-30-87a 9-12-88 Rec'd			10-30-89	ff		
Atlanta Ave. Comm.	4	03312	1-13-54 2-26-88a			10-30-89	ff		
Atlanta Ave. Comm. (Formerly "Atlanta Ave. Comm." J-4									
Atlanta Ave. Comm.	5	03313	2-1-55 7-1-81 2-26-88a			10-30-89	ff		
(Formerly "Atlanta Ave. Comm." J-5									

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Operator [illegible]
Field Huntington Beach County Orange
Sec. 14, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Atlanta Ave. Comm. (Formerly "Atlanta Ave. Comm." J-6	6	03314	3-11-55 3-22-88 a			1-30-89			
Atlanta Ave. Comm. (Formerly "Atlanta Ave. Comm." J-7	7	03315	4-12-55 3-22-88 a 9-7-88 sup a			1-30-89			
Atlanta Ave. Comm. (Formerly "Huntington Beach" 201; "P.E." 242; "Atlanta Ave. Comm." J-8	8	00122	3-8-55 4-18-55 sdr 6-1-55 sdr 1-22-66 sup a 11-3-66 c 3-2288 a 9-7-88 sup a			3-9-90			Waterflood
Atlanta Ave. Comm. (Formerly "Atlanta Ave. Comm." J-9	9	03316	4-25-55 5-20-55 sdr 12-2-81 new 3-2288 a 9-7-88 sup a			1-30-89			
Atlanta Ave. Comm. (Formerly "Atlanta Ave. Comm." J-10	10	03317	5-12-55 3-22-88 a			1-30-89			

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Operator STANDARD OIL CO. OF CALIFORNIA
Field Huntington Beach County Orange
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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Atlanta Ave. Comm.	11	03318	5-2-55					7-28-75 fe	
(Formerly "Atlanta Ave. Comm." J-11			2-5-68 ac 3-7-68 rw					o	
Atlanta Ave. Comm.	12	03319	6-6-55				10-30-87 fe		
(Formerly "Atlanta Ave. Comm." J-12			3-22-88 a						
Atlanta Ave. Comm.	13	00123	8-23-55					7-11-78 fe	Waterflood
(Formerly "Atlanta Ave. Comm." J-13			1-24-66 rework 11-3-66 ac					o	
			~~2-5-68 Excess~~ 4-12-77 a	(Canc. 4-5-68)					
Atlanta Ave. Comm.	14	00124	8-31-55				2-20-90 fe		Waterflood
			11-9-61 ac 1-24-66 rework						
			11-3-66 ac 3-2288 a						
			11-16-88 ac						
Atlanta Ave. Comm.	15	03311	3-16-56				10-30-87 fe		
			3-2488 a						
Atlanta Ave. Comm.	16	00125	8-5-66				10-30-87 fe		
			8-30-66 sw 8-5-88 a						

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Field Huntington Beach County

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Atlanta Ave. Comm.	WSW 1	20894	10-17-77 3-1-89 a					11-1-89 fl	~~Water Disposal~~

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Field Huntington Beach ~~Sec. 3-6S-11W SB B&M~~ County _____

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records				Status	Remarks
				Elec. Log	Hist.	Re-work	Aban.		
WS-1		07896	--						

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
WS-3		07898	-- 1-12-75 Conv. to Inj. 8-9-90 a			3-26-91 fl			Water Disposal
WS-4		07899	-- 1-12-75 Conv. to Inj. 8-9-90 a			3-26-91 fl			Water Disposal
WS-5		07900	-- 8-9-90 a			3-26-91 fl			

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Field Huntington Beach County
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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
WS-6		07901	--			3-26-91 ll			[illegible]
			8-9-90 a	[illegible]	[illegible]	[illegible]			
WS-9		07902	--			3-26-91 ll			Water disposal C
			6-12-75 @ 8-9-90 a	[illegible]	[illegible]	[illegible]			

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Field Huntington Beach County

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Well Designation	Well No.	A.P.I. No.	Notices (Date Rec'd)	Records				Status	Remarks
				Elec. Log	Hist.	Re-work	Aban.		
WS-2		07897	--						[redacted]
		/							

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Field Huntington Beach

Sec. 12, T. 6 S., R. 11 W., S. B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Write.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Farnsworth	1	10-3-21 ✓ 8-2-23 Rd 4-10-24 a						12/31/	Quitclaimed to landowners, F. E. Farnsworth Louella M Farnsworth and Mary I. Thomson 11-21-29; acquired by J. W. Weaver 10-28-42. Letter to RDB 5-5-43.
Farnsworth (059-03391)	2	10-6-22 ✓ 4-13-23 a 8-18-92 a							Field boundary changed from HUNTINGTON BEACH to WEST NEWPORT, Letter from EHM 9-2-54. Field boundary changed from WEST NEWPORT to HUNTINGTON BEACH. Letter to EHM 11-5-54. THIS WELL IS IN HUNTINGTON BEACH FIELD. 9-22-93 fc
Farnsworth 059-05569	3	6-7-24 ✓ 7-25-24 Sdw 9-10-24 Sdw 12-6-24 pa 8-27-29 a						11/9/29	Transferred to DESERT GLOW OIL CO. 3-18-40. Letter to RDB 4-9-40. Field boundary changed to WEST NEWPORT. Letter to EHM 9-2-54; eff. 7-1-54.
Farnsworth See West Newport Pueblo Oil Co	4	3-4-25 ✓ 5-19-25 Sdw 5-10-26 Rd wd 6-12-26 pa 11-5-28 Sdw 3-16-29 a						4/25/29	Transferred to MARTGAN DRILLING CO. 4-17-39. Letter to RDB 9-7-39.
Farnsworth (059-03393)	5	7-15-58 ✓ 8-20-58 a						4/24/59	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Farmsworth (059-03392)	2-A	4-6-23 ✓ 11-8-23 ✓ 12-20-23 ✓ 2-15-24 ✓ 4-10-24 ✓ 8-18-92 a						9-17-24 10-1-24	Field boundary changed from Huntington Beach to WEST NEWPORT. Letter from EHM 9-2-54. Field boundary changed from WEST NEWPORT to HUNTINGTON BEACH. Letter to RDB 11-5-54. THIS WELL IS IN HUNTINGTON BEACH FIELD. 9-22-93 fl

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
"LBZU" (Formerly "Thomson"	10 10)	04395	7-9-29				9-2-90 fl		ACQ from Hampton Oil Corp. 6-18-79. Form 156 8-1-79.
			5-12-90a						*Acq fr Mola Dev. Corp. 4-30-82. OGD156 11-6-85.
									**Acq. 10-1-88 from WM BRAYTON TRUST OG156 3-28-90
"LBZU" (Formerly "Thomson"	11 11)	04396	11-26-29 6-8-90a				3-12-92 fl		see above *see above **See above.
"LBZU" (Formerly "Thomson"	14 14)	04397	5-18-37 6-8-90a				fl 3-12-92		see above *see above **See above.

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
"LBZU"	23	04398	6-19-58			4-24-92 fe			ACQ from Hampton Oil Corp. 6-18-79. Form 156 8-1-79.
(Formerly "Thomson"	23)		6-8-90a						Acq fr MObla Dev. Corp. 4-30-82. OGD156 11-6-85.
									Acq. 10-1-88 from WM BRAYTON TRUST OG156 3-28-90

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Field **Huntington Beach ~~Huntington Beach~~ (~~WEST NEWPORT~~)*

Sec. 13, T. 6 S., R. 11 W., S.B. B. & M.

*Field boundary changed from Hunt. Beach to WEST NEWPORT Letter from EHM 9-2-54.
**Wells returned to Hunt. Beach field. Letter from EHM 11-5-54.

Well Designation	Well No.	Notices (Date)	Records: Log: Well	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	
Surf (059-04178)	1	7-15-20						11/12/57	
Surf (059-04181)	2	9-6-21 5-13-59 5-25-56 8-4-64 a							
Surf (059-04182)	3	6-5-23 3-6-44							
Surf (059-04183)	4	1-26-24 11-17-58 rd 7-23-63 pxa 7-5-63 K. 7-6-64 a						12-4-64 LP 8-10-65 LP	Water Flood
Surf. (059-04184)	5	4-12-48 8-19-64 a						12/14/64	

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Well Designation	Well No.	Notices (Date)	Records: Log: Well	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Surf (059-04180)	1-A	10-10-22 7-13-64 ca							Field boundary changed to WEST NEWPORT. Letter from EHM 9-2-54. Well returned to HUNT. BEACH. See letter from EHM 11-5-54. This well is in Huntington Beach Field.
Surf (059-04179)	1-6	4-25-52 9-26-60 ca 7-30-64 ca						1-14-65 RD	

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Surf Lease No. 2 (059-04185)	1	10-18-43							Derrick removed (Letter from Co. 10-9-44)
(Formerly "Surf." 5;									
Surf. Lease No. 2 (059-04186)	2	6-15-44 F-1-64a							
Surf. Lease No. 2 (059-04187)	3	9-11-46 6-18-64a							

*Field boundary changed. Letter from EHM 9-2-54.
**Field bdy changed. See letter from EHM 11-5-54

BOLSA

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Bolsa (057-03353)	31	8-2-27							

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Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Well designation changes, Form 157, Feb. 10. 1976:									
Old Designation				New Designation					
Sec. 3-6S-11W SB B&M									
"Huntington B-PE Unit" Nos. 37A, 69, 90, 150, 179, 219, 230, 233, 236, 238, 239.				Huntington B" lease (same as old designation Nos.)					
Sec. 4-6S-11W SB B&M									
"Huntington B-PE Unit Nos. 70, 104, 130, 158, 225				"	"		"	"	"
Sec. 10-6S-11W SB B&M									
"Huntington B-PE Unit" Nos. 78, 226, 228, 231, 249				"	"		"	"	"
"Huntington B-PE Unit" 7				"Pacific Electric" 7					

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Well Designation	Well No.	Notices (Date)	Records: Log: Write.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Williams	1	1-31-23							
(057-09219)									

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Hesse	1	7-2?-25							
(057-03398)									

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington Comm. 1 (059-03891)	1	8-23-43							
Huntington Comm. 2 (059-03892)	1	8-23-43							

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Well Designation	Well No.	Notices (Date)	Records: Log: Well	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Schumacher (059-04171)	1	9-20-21 2-21-22 C 10-[illegible]-[illegible] 3-[illegible]-[illegible]						[illegible]	Acquired from M H MOSIER 2-28-24.
Schumacher (059-04172)	2	3-9-22 6-10-[illegible] 4-[illegible]-26 P 5-20-[illegible] 8-[illegible]-[illegible]						[illegible]	Acquired from M H MOSIER 2-28-24.
Schumacher (059-04173)	3	11-28-22 3-9-23 OR 7-7-25 P 3 10-37 [illegible] 8-22-[illegible] R						[illegible]	Acquired from M H MOSIER 2-28-24.

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Well Designation	Well No.	Notices (Date)	Records: Log Write.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Lomita	1	10-24-21							
(059-04038)									
Lomita	2	9-5-22							
(059-04046)									
Lomita-Sunset Community	1	8-2-44						4-14-45	
(059-04027)		10-5-44							

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Torrance (1059-04215)	1	8-12-20							Prospect-Well

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Orange County Title Co.	1	11-8-22						6/20/25	
(C 59-040.30)		4-13-23 sdw 4-16-23 sdw [illegible]							
		10-16-23 a							
Orange County Title Co.	1-A	11-21-23						5/21/25	
(C 59-040.31)		3-27-24 sdw 6-21-24 sdw [illegible]							
		9-16-24 a							

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Operator STANDARD OIL CO. OF CALIFORNIA

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Well Designation	Well No.	Notices (Date Received)	Records						Remarks
			Log		Core	Hist.	Rework	Aban.	
			Writ.	Elec.					
Sehle	1	2-17-55						7-9-61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63.
(059-03400)		4-28-61 & 6-17-88	Sur. Ac.				1-29-89		Form 156, 5-27-63

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Simpson	1	✓ 2-1-55						4/4/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-04174)		1-9-62 11-14-62	yes					1-22-63 D	Form 156, 5-27-63

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Stanfield	1	✓ 9-16-55							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-C 5172-)		10-31-69	a						Form 156, 5-27-63
(Formerly "Stanfield-Simpson" 1;									

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Sunghera	1	1-5-55						4-8-61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63.
(059-02176)		4-28-61a							Form 156, 5-27-63.
(Formerly "Beloil-Sunghera" 1;									

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Adair	1	✓ 3-17-55						4-20-61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63.
(059-03307)		2-24-61 Sup. O.							Form 156, 5-27-63.

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Averbeck-Valenta	1	3-9-55 ✓							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-03320)		~~2-21-62~~ 1-5-81 Aa	R-					3-8-89	Form 156, 5-27-63.
(Formerly "Valenta-Overbeck" 1;									

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Jack B. Crawford-Huntington (059-03389)	7	12-21-54 3-11-55 P & A 4-28-61 a						5/31/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63 Form 156, 5-27-63
Jack B. Crawford-Huntington (059-03390)	8	1-21-55 4-28-61 a						5/31/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63. Form 156, 5-27-63.

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Folkerts	1	3-31-55							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-03394)		4-14-66 a 5-2-66 a 4-5-88 ca	a					3-20-88 C	Form 156, 5-27-63

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Field Huntington Beach

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Golden Bear	1	5-5-55						6/9/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-03397)		4-28-61a 6-17-88	Sup. a.					3-22-[illegible]	Form 156, 5-27-63.
(Formerly "Bakre" 1;									

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Operator [illegible]

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Well Designation	Well No.	Notices (Date Received)	Records						Remarks
			Log		Core	Hist.	Rework	Aban.	
			Writ.	Elec.					
Howard	1	4-18-55							Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-03399)		[illegible] 7-5-88 Aa	-					[illegible] 4-1	Form 156, 5-27-63.

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△ SPO

Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Larsen	1	1-21-55						4-1-63	Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(059-04500)		1-9-61a							Form 156, 5-27-63

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Log: Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Gisler	1	9-22-22							Field boundary changed from Hunt. Beach to WEST NEWPORT. Letter to EHM 9-2-54.
Gisler (1059-03396)	2	3-27-24							Field boundary changed from Hunt. Beach to WEST NEWPORT. Letter to EHM 9-2-54. Well returned to HUNTINGTON BEACH field. Letter to EHM 11-5-54. This well is in Huntington Beach Field.

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Changed 1-29-73 to "POPI" 1; see new page.									Acquired from PRODUCING PROPERTIES, INC. 4-1-63
Neaves et al	1	4-15-55							Form 156, 5-27-63
(037-04029)									

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Well Designation	Well No.	Notices (Date Received)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Overacker (059-04032)	1	✓ 3-9-55 1-9-61a						4/4/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63 Form 156, 5-27-63
(Formerly "Overacker Community" 1;									
Overacker (059-04033)	2	✓ 3-31-55 3-24-61a						4/20/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63 Form 156, 5-27-63
(Formerly "Overacker Community" 2;									

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Records: Log Elec.	Records: Core	Records: Hist.	Records: Rework	Records: Aban.	Remarks
Huntington Beach A (059-03878)	1	1-14-55 4-28-61a						6/9/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63. Form 156, 5-27-63.
Huntington Beach B (059-03879)	1	2-17-55 5-6-89a							See above. Tran 12-15-90 to Huntington Beach Company OG156 1-10-91.
Huntington Beach C (059-03880)	1	3-4-55 [illegible]						[illegible]	See above.

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Well Designation	Well No.	Notices (Date Received)	Records						Remarks
			Log		Core	Hist.	Rework	Aban.	
			Writ.	Elec.					
Huntington-Webb	1	✓ 2-17-55						5-16-61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63
(C 54-C 4150)		4-28-61a							Form 156, 5-27-63

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Operator ~~Standard Oil Co. of California~~

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Well Designation	Well No.	Notices (Date Received)	Records						Remarks
			Log		Core	Hist.	Rework	Aban.	
			Writ.	Elec.					
Claborn	1	3-4-55						5/31/61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63. Form 156, 5-27-63.
(059-03387)		4-18-61a							

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Well Designation	Well No.	Notices (Date Received)	Records: Log Writ.	Log Elec.	Core	Hist.	Rework	Aban.	Remarks
Gilbert (059-03395)	1	4-11-55 ✓					1	7-20-61	Acquired from PRODUCING PROPERTIES, INC. 4-1-63. Form 156, 5-27-63.

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Operator STANDARD OIL CO. OF CALIF.

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Well Designation	Well No.	Notices (Date Rec'd)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Grammar School	3	2-6-67					4-23-91		
(059-20015)		5-20-89a							

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Anna C. Vickers (059-04216	1	9-22-26							
(Formerly "Crawford" 1;									
Vickers Community (059-04217)	1	9-22-26 ✓ 11-22-26 A dw 1-30-59 A 5-19-88 AA						4-17-59 dw 4-23-91 fc	
Vickers Community (059-04218)	2	11-12-47 ✓ 9-8-52 A 7-7-88 AA						2-4-52 dw 2-5-90 fc	

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Field Huntington Beach County
Sec. T. R. B. & M.
Sec. 3-6S-11W SB B&M

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Well designation changes, Form 157, Feb. 10. 1976:									
Old Designation				New Designation					
Sec. 3-6S-11W SB B&M									
"Huntington B-PE Unit" Nos. 37A, 69, 90, 150, 179, 219, 230, 233, 236, 238, 239.				Huntington B" lease (same as old designation Nos.)					
Sec. 4-6S-11W SB B&M									
"Huntington B-PE Unit Nos. 70, 104, 130, 158, 225				"	"	"	"	"	
Sec. 10-6S-11W SB B&M "Huntington B-PE Unit" Nos. 78, 226, 228, 231, 249				"	"	"	"	"	
"Huntington B-PE Unit" 7				"Pacific Electric" 7					

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Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Crawford	1	8-27-26					12-27-41	fc	
(059-03548)		[illegible]							
		6-18-76 env							
		9-31-77 env							
		6-5-90 A							

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Well Designation	Well No.	Notices (Date Rec'd)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Grammar School	1	1-23-67					5-11-90	90	
(059-20005)		3-24-89 a						1	
Grammar School	2	2-6-67					5-11	90	
(059-20014)		3-24-89 a						1	

Transferred

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Long Beach Trust and Savings	1	10-24-21 [illegible]							Transferred to Sunset Beach field January 1, 1955.

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Sec. 2, T. 6 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
	1	3-15-23							Acquired from U S ROYALTIES CO. 3-14-24. Transferred to BLAKE-FRAMPTON 9-26-28. Letter to RDB 11-8-28.

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Slabaugh	1	8-30-22							Transferred to BLAKE-FRAMPTON 9-26-28. Letter to RDB 11-8-28.
(Formerly "Talbert" 1;									
Slabaugh	2	12-27-22							Transferred to BLAKE-FRAMPTON 9-26-28. Letter to RDB 11-8-28.
(Formerly "Community" 2;									
Slabaugh	3	12-27-23							Transferred to BLAKE-FRAMPTON 9-26-28. Letter to RDB 11-8-28.
(Formerly "Community" 3;									

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Field Huntington Beach County
Sec. T. R. B. & M.
Sec. 3-6S-11W SB B&M

Well Designation	Well No.	A.P.I. No. 059	Notices (Date Rec'd)	Records: Elec. Log	Records: Hist.	Records: Re-work	Records: Aban.	Status	Remarks
Well designation changes, Form 157, Feb. 10. 1976:									
Old Designation				New Designation					
Sec. 3-6S-11W SB B&M									
"Huntington B-PE Unit" Nos. 37A, 69, 90, 150, 179, 219, 230, 233, 236, 238, 239.				Huntington B" lease (same as old designation Nos.)					
Sec. 4-6S-11W SB B&M									
"Huntington B-PE Unit Nos. 70, 104, 130, 158, 225				"	"		"	"	"
Sec. 10-6S-11W SB B&M "Huntington B-PE Unit" Nos. 78, 226, 228, 231, 249				"	"		"	"	"
"Huntington B-PE Unit" 7				"Pacific Electric" 7					

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Pacific Ranch	1	10-19-21							Transferred to W G BRADFORD & J. H. MACKLIN 4-16-34. Letter to RDB 5-24-34.
Pacific Ranch	2	5-31-22 9-16-24a						2/6/33	See above

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Heffner	1	11-29-26							Quitclained by STANDARD OIL CO OF CALIFORNIA to landowner 12-9-27. New lease made to ASPHALT DEVELOPMENT CO. 3-15-43. Letter to RDB 12-14-43.

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Operator STANDARD OAK CO OF CALIFORNIA

Field Huntington Beach

Sec. 35, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington G (057-04106)	1	5-11-22							
								8-1 24-54	
		3-14-84							
Huntington G	2	12-26-22							Transferred to BLAKE & FRAMPTON 8-22-40. Letter to KDB 10-18-40.
		4-24-23							
		10-10-23							
		11-22-23							
		5-7-24							

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Field Huntington Beach

Sec. 35, T. 5 S., R. 11 W., S.B. B. & M.

Well Designation	Well No.	Notices (Date)	Records: Log Writ.	Log Elec.	Core	Hist.	Deepen or Redrill	Aban.	Remarks
Huntington J (059-04147)	1	7-15-43 ✓ 12-9-82 SI 11-29-68 ✓						✓	
Huntington J (059-04148)	2	12-23-43 ✓ 11-29-68 ✓ 9-12-91 AC ✓ 9-18-92 ✓					3-13	✓ 95 ✓	
Huntington J (059-04149)	3	10-15-43 ✓ 2-25-57 ✓ 4-25-88 ✓					8-30-89	✓	

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Well Designation	Well No.	Notices (Date)	Records: Log: Writ.	Records: Log: Elec.	Records: Core	Records: Hist.	Records: Deepen or Redrill	Records: Aban.	Remarks
Anderson	1	8-13-26							This lease quitclaimed to Harry V. Anderson & wife 12-4-33; no change in name on record. (RDB
		[illegible]							Letter 7-19-34 on well record.
									Transferred to D. D. DUNLAP OIL CO. 4-30-41.
									Letter to RDB 5-7-41.

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Well Designation	Well No.	Notices (Date)	Records						Remarks
			Log		Core	Hist.	Deepen or Redrill	Aban.	
			Writ.	Elec.					
Sylvester	1	10-24-21							Transferred to Sunset Beach field January 1, 1955.

OIL SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) PLAN

Facility:
Huntington Beach Oil Field:
Highlands, Fort Apache, State Lease, Bolsa Chica, and Platform Emmy
Orange County
20101 Goldenwest Street
Huntington Beach, CA 92648

Owner / Operator:
Socal Holding, LLC

Date of SPCC Plan / P.E.-Certification
October 2019

Designated Person Accountable for Spill Prevention:
Dean Persinger, Operations Surface Manager
(562) 999-8405

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Table 2 Huntington Beach Oil Field Equipment List – Mobile and Portable Containers
Table 3 Huntington Beach Oil Field Equipment List – Flow-Through Process Vessels
Table 4 Huntington Beach Oil Field Equipment List – Operation Equipment
Table 5 Huntington Beach – Onshore Oil Drilling and Workover Facilities
Table 6 Huntington Beach – Platform Emmy Facility Equipment List

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Figure 2 State Lease
Figure 3 Fort Apache
Figure 4 Bolsa Chica North
Figure 5 Bolsa Chica South
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Figure 6B Highlands: Mat 3 to Mat 6
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APPENDICES

Appendix A: Inspection Logs
Appendix B: Sample Notification Forms
Appendix C: Supporting Documentation

ACRONYMS

§	Section
40 CFR 112	Title 40 Code of Federal Regulations Part 112
AB	Assembly Bill
ADT	atmospheric drain tank
AWT	automatic well tester
BOP	blowout preventer
CFR	Code of Federal Regulations
CLSC	California State Lands Commission
CUPA	Certified Unified Program Agency
DOGGR	Department of Oil, Gas, and Geothermal Resources
EMA	Emergency Management Agency
ESD	electrostatic sensitive device
FOS	Field Operation Supervisor
FR	Federal Register
FWPCA	Federal Water Pollution Control Act
HES	Health, Environment, and Safety
HPU	hydraulic power unit
LEL	lower explosive limit
MSRC	Marine Spill Response Corporation
OSPR	Office of Spill Prevention and Response
OWCN	Oiled Wildlife Care Network
P.E.	Professional Engineer
PSH	high-pressure switch
PSL	low-pressure switch
SARWQCB	Santa Ana Regional Water Quality Control Board
SPCC	Spill Prevention, Control, and Countermeasure
UN/DOT	United Nations/Department of Transportation
U.S. DOT	United States Department of Transportation
U.S. EPA	United States Environmental Protection Agency
UST	underground storage tank
UT	ultrasonic
UV/IR	ultraviolet/infrared

MANAGEMENT APPROVAL

Socal Holding, LLC will fully implement the procedures outlined in this Spill Prevention, Control, and Countermeasure (SPCC) Plan and will take the steps necessary to minimize the potential for petroleum releases to navigable waters of the United States or shorelines.

The SPCC Plan has the full approval of management at the level of authority to commit the necessary resources to fully implement the SPCC Plan. Per Title 40 of the Code of Federal Regulations Part 112 Section (e) [40 CFR 112.3(e)], a copy of this SPCC Plan will be maintained at the facility at all times and will be made available to the U.S. EPA Regional Administrator for on-site review during normal working hours.

- The spill prevention, control, and countermeasures for this facility will be implemented and maintained as herein described in the SPCC Plan.

- The manpower, equipment, and materials required to control and remove any quantity of oil that may be discharge are hereby authorized.

Signature: 

Name: Dean Persinger

Company: Socal Holding, LLC

Title: Operations Surface Manager

Date: October 2019

AMENDMENTS

Technical amendments are certified by a Professional Engineer [Section (§) 112.5(c)].

Examples of changes include, but are not limited to, commissioning or decommissioning containers; replacement, reconstruction, or movement of containers; reconstruction, replacements, or installation of piping systems; construction or demolition that might alter secondary containment structures; changes of product or service; or addition/deletion of standard operation or maintenance procedures related to discharge prevention measures. It is the responsibility of the facility to determine, and confirm with the regulatory authority as necessary, what constitutes a technical amendment. The preamble of the rule states that an amendment is required only "when there is a change that materially affects the facility's potential to discharge oil" (67 FR 47091).

An amendment made under this section will be prepared within six (6) months of the change and implemented as soon as possible but not later than six (6) months following preparation of the amendment.

Technical amendments affecting various pages within the SPCC Plan can be P.E. certified on those pages, certifying those amendments only, and will be documented on the log form below.

Management will review this SPCC Plan at least each five (5) years and document the review on the form below [§112.5(b)]. By signature below, signor confirms that management has completed a review and evaluation of this SPCC Plan.

Review/ Amend Date	Signature	Amend Plan (yes/no)	Description of Review/ Amendment	Affected Page(s)	P.E. Certification (Y/N)
Oct 2019		No	5-Year Update	Various	Y

REGULATORY CROSS REFERENCE

40 CFR Part 112 Sections	Description of 40 CFR Part 112	SPCC Section No.	SPCC Page No.
112.1	General Applicability	Section 2.0	2
112.2	Definitions	n/a	n/a
112.3	Requirement to prepare and implement a Spill Prevention, Control, and Countermeasure Plan (SPCC)	Management Approval	i
112.3(d)(1) and 112.5(c)	Professional Engineer Certification	Section 3.0	3
112.4	Amendment of SPCC Plan by Regional Administrator	n/a	n/a
112.5(b)	Management of Five Year Review	Technical Amendments Section 4.0	ii 4
112.6	Qualified Facility Plan Requirements (facility self-certify if meet requirements listed in 40 CFR §112.3[g])	n/a	n/a
112.7	General Requirements for SPCC Plans for all facilities and all oil types	Section 4.0	4
112.7(a)	General Requirements: discussion of facility's conformance with rule requirements, deviations from Plan requirements, facility characteristics that must be described in the Plan, spill reporting information in the Plan, emergency procedures	Section 2.0 Section 5.3	2 12
112.7(b)	Fault analysis	Section 6.0 Tables	'17 Tables-
112.7(c)	Secondary Containment	Section 7.1 Tables	17 Tables
112.7(d)	Contingency Planning	Section 4.0 Section 7.4	4 18
112.7(e)	Inspections, tests, and records	Section 8.1	19
112.7(f)	Personnel training and discharge prevention procedures	Section 9	21
112.7(g)	Security (excluding oil production facilities)	Section 10	22
112.7(h)	Facility tank car and tank truck loading/unloading rack (excluding offshore facilities)	Section 11	22
112.7(i)	Brittle fracture evaluation requirements	Section 8.0	19
112.7(k)	Qualification criteria – reportable discharge history and alternative requirements to general secondary containment	Section 7.4	18
112.8	SPCC Plan requirements for onshore facilities (excluding production facilities)	n/a	n/a
112.8(a)	General and specific requirements for Plan listed under §112.7	n/a	n/a
112.8(b)	Facility drainage	n/a	n/a
112.8(c)	Bulk storage containers	n/a	n/a
112.8(d)	Facility transfer operations, pumping, and facility process	n/a	n/a
112.9	Requirements for onshore production facilities	Section 2.0	2
112.9(a)	General and specific requirements	Section 2.0	2
112.9(b)	Oil production facility drainage	Section 5.3	12
112.9(c)	Oil production facility bulk storage containers	Section 7.0 Tables	17 Tables

40 CFR Part 112 Sections	Description of 40 CFR Part 112	SPCC Section No.	SPCC Page No.
112.9(d)	Facility transfer operations, oil production facility	Section 8.0	19
112.10	SPCC Plan requirements for onshore oil drilling and workover facilities	Section 2.0	2
112.10(a)	General and specific requirements	Section 8.2	20
112.10(b)	Mobile facilities	Section 7.2	18
112.10(c)	Secondary containment – catchment basins or diversion structures	Section 7.2	18
112.10(d)	Blowout prevention (BOP)	Section 7.2	18
112.11	SPCC requirements for offshore oil drilling, production, or workover facilities	Section 2.0	2
112.11(a)	General and specific procedures	Section 8.3	20
112.11(b)	Facility drainage	Section 5.3.2 Section 7.3	11 18
112.11(c)	Sump systems	Section 7.3	18
112.11(d)	Discharge prevention systems for separators and treaters	Section 5.3	13
112.11(e)	Atmospheric storage or surge containers, alarms	Section 5.2.3	11
112.11(f)	Pressure containers, alarm systems	Section 5.2.3	11
112.11(g)	Corrosion protection	Section 5.2.3	11
112.11(h)	Pollution prevention system procedures	Section 8.3	18
112.11(i)	Pollution prevention systems, testing and inspection	Section 8.3	18
112.11(j)	Surface and subsurface well shut-in valves and devices	Section 5.2.3	11 and 12
112.11(k)	Blowout prevention (BOP)	Sections 5.0.2-5.2.2	8 and 9
112.11(l)	Manifolds	Section 5.2.3	11
112.11(m)	Flowlines, pressure sensing devices	Section 5.2.3	11
112.11(n)	Piping, corrosion protection	Section 5.2.3	11
112.11(o)	Sub-marine piping, environmental stresses	Section 5.2.3	11
112.11(p)	Inspections of sub-marine piping	Section 8.3	20

1.0 FACILITY OWNER AND OPERATOR

Socal Holding, LLC (Socal Holding) acquired the Huntington Beach Oil Field and Platform Emmy properties in September 2014. The Huntington Beach Oil Field consists of oil production leases located at 20101 Goldenwest Street in Huntington Beach, California, and Platform Emmy is located offshore in California State Waters.

1.1 Facility Owner Address

Socal Holding, LLC
1 World Trade Center, Suite 1500 Long Beach, CA 90831

1.2 Facility Contacts

Name	Position	Telephone
Dispatcher (24 hours per day/ 7 days per week)	Dispatcher	Office (562) 624-3452
Dean Persinger	Operations Surface Manager	Office (562) 624-3284
Kristy Monji	Environmental Coordinator	Cell (562) 505-8657 Office (Long Beach) (562) 624-3391 Email Kristy_Monji@crc.com
Superintendent, Facilities/Operations	Superintendent, Facilities/Operations	Office (714) 969-3270 (714) 329-3831
Field Operations Supervisor (FOS)	Field Operations Supervisor	Office (714) 969-3260 (562) 244-8639
Field Lease Operators	Field Lease Operators	Office (714) 969-3201
		24-hour Dispatch (562) 624-3452

1.3 Facility Operator, Addresses, and Telephone

Socal Holding, LLC
Huntington Beach Oil Field
Orange County
20101 Goldenwest Street
Huntington Beach, California 92648
Telephone (562) 624-3452 (Dispatcher, 24 hour emergency contact)

2.0 REGULATORY APPLICABILITY [40 CFR 112.1, §112.7(a)(1), §112.9, §112.10, and §112.11]

The U.S. Environmental Protection Agency (U.S. EPA), in response to the "Regulations on Oil Pollution Prevention" included in the Federal Water Pollution Control Act (FWPCA) passed by Congress in 1973, has established rules for the prevention of water pollution by oil discharged from "non-transportation related onshore and offshore facilities." These regulations were originally promulgated on December 11, 1973, and are set forth in Title 40, Code of Federal Regulations (CFR), Part 112 (40 CFR 112); the current regulations became effective on July 17, 2002. U.S EPA has added several extensions to this date. Current proposed effective dates are November 10, 2011, for SPCC Plan revisions and for implementation. Socal Holding, LLC (Socal Holding) is included under the current regulations according to the criteria set forth in 40 CFR 112, Section (§) 1, paragraphs (b) and (d)(2) [also referred to as §112.1(b) and §112.1(d)(2)]. This SPCC Plan has been developed in accordance with the guidelines set forth in §112.7 and is based upon site visits and discussions with Socal Holding facility operations and environmental personnel.

Since the appropriate aboveground storage capacity of the Huntington Beach facilities exceed 1,320 gallons of oil, an SPCC Plan is required for the facilities per §112.7(c). In addition, this SPCC Plan was prepared in accordance with the procedures, methods, equipment, and other requirements established in §112.1(a) to prevent the discharge of oil and oil products from Socal Holding's Huntington Beach Oil Field and Platform Emmy facilities into navigable waters of the United States.

2.1 Purpose and Scope of SPCC

The purpose of the SPCC Plan is to provide engineering, operation, maintenance, and management strategies to minimize the potential of a spill or release of oil products (i.e. fuel and petroleum/lubricating oil) from certain storage and operational equipment and activities, and in the event of a spill, to prevent the spill from entering a waterway.

The scope of this SPCC Plan are oil-containing containers, equipment, structures, and devices with a 55-gallon or greater capacity [§112.1(d)(2)] owned, operated, and/or maintained by Socal Holding. Completely buried underground storage tanks (USTs) are excluded from this Plan [§112.1(d)(2)(i)]. United States Department of Transportation (U.S. DOT) regulated transportation-related activities are generally excluded from SPCC Plan requirements [§112.1(d)(i) and (ii)].

2.2 General Applicability

This SPCC Plan was written to comply with the requirements of 40 CFR 112, Oil Pollution Prevention. Part 112 establishes the requirements for procedures, methods, and equipment to assist in preventing an accidental discharge of oil or any material containing oil from entering into or upon the navigable waters of the United States or adjoining shorelines. These procedures, methods, and equipment are referred to as the SPCC Plan. Title 40 of the CFR, Part 112 applies to those owners or operators of non-transportation related, onshore and offshore facilities, engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, or consuming oil or oil products [§112.7(b)]. The specific requirements of 40 CFR 112.1 through 112.7 (Subpart A – Applicability, Definitions, and General Requirements for All Facilities and All Types of Oils), 40 CFR 112.9 (Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil production facilities), 40 CFR 112.10 (Spill Prevention, Control, and Countermeasure Plan requirements for onshore oil drilling, production, or workover facilities), and 40 CFR 112.11 (Spill Prevention, Control, and Countermeasure Plan requirements for offshore oil drilling, production, or workover facilities) applies to Socal Holding's Huntington Beach Oil Field and Platform Emmy facilities.

3.0 REGISTERED PROFESSIONAL ENGINEER CERTIFICATION [40 CFR 112.3(d)]

I hereby attest to the following:

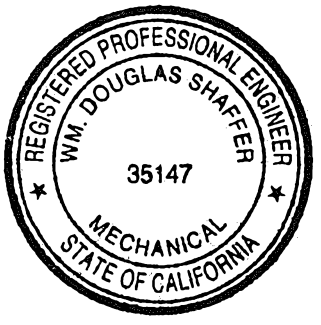
1. I am familiar with the requirements of Title 40, Code of Federal Regulations Part 112 (40 CFR 112).
2. I visited and examined the facilities on March 30, 2012 and April 30, 2012.
3. This SPCC Plan has been prepared with good engineering practices, including consideration of applicable industry standards, and with the requirements of 40 CFR 112.
4. Inspection and testing procedures have been established.
5. This SPCC Plan is adequate for the facility.

Signed: _____

Wm. Douglass Shaffer

Registration No: ***M35147***
State: ***CA***

Certification Date: *October 2019*



4.0 MANAGEMENT APPROVAL AND COMMITMENT OF MANPOWER [40 CFR 112.4, §112.5, and §112.7]

The SPCC Plan for the Socal Holding Huntington Beach facilities (Oil Field and Platform Emmy) will be implemented and maintained as herein described. The manpower, equipment, and materials required to control and remove any quantity of oil that may be discharged are hereby authorized, as presented on the Management Approval certification page (page i).

In accordance with 40 CFR 112.5(b), this SPCC Plan will be reviewed at least every five (5) years. As a result of the review, the SPCC plan will be amended within six (6) months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event, and (2) if such technology has been field-proven at the time of the review. This review will include at a minimum: applicability of new prevention and control technology which may significantly reduce the likelihood of a spill event if such technology has been field-proven at the time of the review, accuracy of the SPCC Plan is compared to the current facility operation and SPCC regulations, capacity and structural integrity of secondary containment structures, SPCC inspections and records to ensure continuity of records for a minimum of five (5) years.

The SPCC Plan will also be amended whenever there is a change in the facility design, construction, operation, or maintenance that will materially affect the facility's potential for the discharge of oil into or upon navigable waters of the United States or adjoining shorelines [§112.5(a)]. Such technical amendments to the SPCC Plan will be certified by a Registered Professional Engineer in accordance with 40 CFR 112.5(c). If re-certification is necessary, a new certification page will be sealed, signed, and inserted into the SPCC Plan. Minor administrative or non-substantive changes, such as name or telephone number changes or modifications of procedures referenced in this Plan that have no 'material impact on spill risk' do not require re-certification but must be noted in the Record of Amendment (page ii). Once certified, these amendments will be implemented as soon as possible, but within six (6) months after such change occurs.

Changes which require revision may include, but are not limited to:

- Replacement, reconstruction, or movement of containers;
- Commission or decommission of containers;
- Reconstruction, replacement, or installation of piping systems;
- Construction or demolition that might alter secondary structures or drainage systems; and
- Revision of standard operation, inspection, and/or maintenance procedures at the facility.

SPCC Plan amendments or submittals to the U.S. EPA Regional Administrator due to the occurrence of reportable spills, or other SPCC Plan amendments by the U.S. EPA Regional Administrator, may require re-certification by a Registered Professional Engineer.

4.1 Conformity with Regulations [40 CFR 112.7 (a)(1) and (2)]

This plan has been prepared in accordance with good engineering practices and has the full approval of Socal Holding management. The management of Socal Holding is committed to providing the manpower, equipment, facilities, and materials required to establish precautionary measures and to expeditiously control and remove any harmful quantity of oil and oil product discharged from the facility.

General facility information is provided below:

Business Name:	Socal Holding, LLC
Facility Name:	Huntington Beach Oil Field Facilities and Platform Emmy
Facility Street Address:	20101 Goldenwest Street Huntington Beach, California 92648
Facility Mailing Address:	20101 Goldenwest Street Huntington Beach, California 92648
24-Hour Facility Phone Number:	(562) 624-3452
Nearest Surface Water Body:	Pacific Ocean
Approximate Distance:	0 – ¼ mile
Owner Name:	Socal Holding, LLC
Owner Address:	1 World Trade Center, Suite 1500 Long Beach, CA 90831

Huntington Beach Oil Field:

Location of Facility:	Located adjacent to Pacific Coast Highway, in the city of Huntington Beach, in Northern Orange County.
Site Characteristics:	Situated across from the Pacific Coast Highway on flat terrain. The oil field encompasses over 1,300 acres and includes three geographical components: The Highlands, Lowlands, and Townlot Leases.
Current Operations:	Produces oil and gas from onshore bases and processes oil and gas from onshore and State tidelands leases. Treated crude oil is stored in the facility and transferred offsite via pipeline. Treated natural gas is transferred to Southern California Gas Company via pipeline.
Size of the facility:	Approximately 1,300 acres

Platform Emmy:

Location of Facility:	Located in California State waters 1.3 miles offshore of the intersection of Goldenwest Street and Pacific Coast Highway in the City of Huntington Beach on California State Oil & Gas Lease PRC 425.
Site Characteristics:	Situated in 46 feet of water, approximately 1.3 miles offshore Huntington Beach.
Current Operations:	Produces oil, water, and gas from State leases PRC 392, 425, and 426. No oil and gas separation is performed on the platform. Produced crude and gas are transported via pipelines to Huntington Beach Production Unit for treatment.
Date Platform Installed:	1962

This SPCC Plan is organized in accordance with the sequence presented in 40 CFR 112.7 and meets the applicable requirements specified in the regulations.

4.2 Certification of Applicability of Substantial Harm Criteria [40 CFR 112.20(e)]

CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

Facility Name: ***Socal Holding, LLC***

Facility Address: 20101 Goldenwest Street, Huntington Beach, California 92648

1.	Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?		
		Yes XX	No ___
2.	Does the facility have total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?		
		Yes ___	No XX
3.	Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?		
		Yes ___	No XX
4.	Does the facility have total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?		
		Yes ___	No XX
5.	Does the facility have total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?		
		Yes ___	No XX

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature



Dean Persinger, Operations Surface Manager

4.3 Submission of Plan [40 CFR 112.4(a)]

An SPCC Plan is not required to be filed with the U.S. EPA or the State, but a copy must be available for onsite review by the U.S. EPA Regional Administrator or the Santa Ana Regional Water Quality Control Board (SARWQCB) during normal working hours. The jurisdictional Certified Unified Program Agency (CUPA) may also review a copy during inspections.

Socal Holding shall submit this SPCC Plan to the U.S. EPA Regional Administrator within sixty (60) days whenever the facility has a discharge event(s) from potential spill sources which meets one of the following conditions:

- Discharge of more than 1,000 gallons of oil into or upon the navigable waters of the United States or adjoining shorelines in a single spill event; or,
- Discharges of oil in harmful quantities into or upon the navigable waters of the United States, or adjoining shoreline in two spill events greater than 42-gallons within any 12 month period.

Documentation to be included in the Plan submission includes the following:

- Name of the facility;
- Name(s) of the owner or operator of the facility;
- Location of the facility;
- Date and year of initial facility operation;
- Maximum storage or handling capacity of the facility and normal daily throughput;
- Description of the facility, including plot plans, flow diagrams, and topographical maps;
- The cause(s) of the spill, including a failure analysis of the system or sub-system in which the failure occurred;
- The corrective actions and/or countermeasures taken, including an adequate description of equipment repaired and/or replaced;
- Additional preventative measures taken or contemplated to minimize the possibility of recurrence; and
- Such information the U.S. EPA Regional Administrator may reasonably require, pertinent to the SPCC Plan or spill event.

5.0 FACILITY DESCRIPTION [40 CFR 112.7 (a)(3), §112.9, §112.10, §112.11]

The physical layout of the Socal Holding Huntington Beach Oil Field Facility consists of oil production leases at five (5) sub-locations referred to as the Highlands Strip (Highlands or "Strip"; Figures 6 through 6D), the North and South Bolsa Production Leases or Lowlands Area (Figures 4 and 5), the State Lease (Figure 2), Fort Apache (Figure 3), and Platform Emmy (Figures 8, 9A and 9B). Figure 1 provides a layout of the Huntington Beach Operating Areas. Platform Emmy, located 1.3 miles offshore in 46 feet of water, and Fort Apache are not contiguous with the main Highlands facility but are connected to it by pipelines.

Figures 1 through 9B, located in the "Figures" section of this SPCC Plan, provide the following detail and location information (as applicable):

- Process equipment, operating equipment, electrical equipment;
- Loading/unloading racks (not applicable to the Huntington Beach Field);
- Loading/unloading areas;
- Fixed aboveground storage tanks;
- Transfer stations and connecting lines;

- Completely buried and bunkered tanks;
- Mobile and portable container storage areas; and
- The contents of all containers.

The facility has a handling capacity of 8,000 barrels of crude oil and 150,000 barrels of produced water. The tanks and vessels are operated at rates and/or volumes less than their maximum capacity.

5.0.1 Onshore facilities

Each sub-area includes wells, well test stations, flow lines and gathering lines, and other related process piping and equipment. Oil, gas, and water produced from the reservoirs are pumped to a central processing facility on the Highlands. The Highlands also includes a produced water handling facility.

5.0.2 Onshore Oil Drilling and Workover Facilities

Normally, contract equipment is used for drilling and workover programs. A blowout preventer (BOP) assembly and well control system is installed before drilling below any casing string and is required during workover operations. Typically, up to seven rigs that can be used at any one time and are typically only used for the workover (maintenance) program. Company supervision and a firm contract ensure that all safety and environmental regulations are followed. When active drilling or workover operations are in progress, drainage is controlled.

5.0.3 Offshore Facilities

Platform Emmy has the following equipment: surge containers, pressure containers, scrubbers, automatic well testers (AWT), flowlines, and piping on the platform as well as sub-marine.

5.1 Oil and Oil Product Storage [40 CFR 112.7 (a)(3)(i), §112.9, §112.10, §112.11]

Tables 1 through 6, located in the "Tables" Section in this SPCC Plan, describe the type of oil in each fixed container and its storage capacity.

Tables 1 through 4 provides information about the aboveground fixed containers, mobile and portable containers, operational equipment (i.e. transformers, hydraulic equipment, lubricants, etc.), process vessels (i.e. separator tanks, etc.), and piping at the onshore facilities, which includes the Highlands, State Lease, the Lowlands, and Fort Apache [§112.7 and §112.9].

Table 5 provides information about the mobile and portable containers covered under §112.10, the onshore oil drilling and workover facilities, which include various areas in the Highlands, State Lease, and the Lowlands.

Table 6 provides information about the fixed containers, oil-filled operational equipment, mobile and portable containers, and other potential sources (piping) on Platform Emmy [§112.11 for offshore oil drilling, production, or workover facilities].

5.2 Discharge Prevention Measures [40 CFR 112.7 (a)(3)(ii)]

5.2.1 Onshore Facilities

Tank overfill prevention at all facilities is provided by high-level alarms (in most cases) and piping to equalize overflow to other tanks. Some tanks are also equipped with low level alarms. Smaller, portable tanks that are not equipped with alarms are loaded manually following written standard operating procedures that include tank level monitoring. Written procedures are in place for various loading and unloading activities. A scheduled system is in place for maintenance and testing of level switches and alarms. Work orders are generated and maintained at the Health, Environmental, and Safety (HES) Department records. Additional information is provided in Socal Holding's Oil Spill Contingency Plan, *Section 3.0 – Spill Response Procedures* and *Section 4.0 – Spill Response Resources*.

V-904 (condensate vessel located in Containment A, northwest of T-101 and adjacent to Containment #1) is equipped with high level alarm. The high-level alarm on this vessel is included within the maintenance and testing schedule. This system is a designed control system to prevent overfill of the vessel, ensuring condensate collection will not exceed containment capacity of Containment A.

5.2.2 Onshore Oil Drilling and Workover Facilities

A BOP assembly and well control system is installed before drilling below any casing string or during workover operations. The BOP assembly and well control system is capable of controlling wellhead pressure that may be encountered while the BOP assembly and well control system are on the well.

5.2.3 Offshore Facilities

Platform Emmy (the offshore facility) consists of the following list of equipment:

- Atmospheric Storage (Surge Containers)
  - Atmospheric storage or surge containers are equipped with high liquid level sensors that activate an alarm or control the flow, or otherwise prevent discharges.
- Pressure Containers
  - Pressure containers are equipped with high and low-pressure sensors that activate an alarm or control flow.
- The CVR Scrubber and East AWT
  - Externally painted and internally coated. Anodes are installed inside the vessels to provide cathode protection to the interlay wall where coating holidays may occur.
- Manifolds (headers) Equipped with Individual Flowlines
  - The flowlines are equipped with high pressure sensing device and shut-in valve at the wellhead. If shut-in well pressure is greater than the working pressure of the flowline and manifold valves up to and including the header valves.
  - Piping
  - Corrosion protection for piping is provided by wrapping and coating.
- Piping (sub-marine)
  - An annual diver-based inspection is conducted for debris, unsupported spans due to bottom sediment erosion, and damages to the pipeline are documented. A close interval cathodic protection survey is performed annually. A smart pig inspection, in accordance CSLC regulations, is also performed in accordance with timing approved by CSLC.

Individual surface well shut-in valves are activated by the well's flow line high-pressure switch (PSH) or low-pressure switch (PSL) safety devices. Subsurface gas well shut-in valves are activated on all wells by the following devices:

- Fusible plug loops (1-9);
- Ultra Violet/Infrared (UV/IR) detectors (1-9);
- Manual electrostatic sensitive device (ESD) stations at various locations on Platform Emmy (1-14);
- Twenty Gas Detection devices (1-20) on board alarm at 20% of the lower explosive limit (LEL), and they alarm and initiate the Emergency Shutdown System at 40% LEL; and
- Smoke detection devices 1, 2, 4, 6, and 8 will sound an alarm and are located at various locations on Platform Emmy.
- All of Platform Emmy's oil wells are equipped with surface safety valves that shut automatically if Platform Emmy's Emergency Shutdown System is activated. The production engineer maintains a "safe chart" mapping the subsurface safety valves for the oil wells. This system is tested every month, with oversight from CSLC.
- Platform Emmy also has two operating natural gas wells equipped with subsurface safety valves that can be shut-in to stop the flow of natural gas in an emergency. Platform Emmy's emergency shutdown system closes these subsurface safety valves on the natural gas wells. The production engineer maintains a "safe chart" mapping the subsurface safety valves for the natural gas wells.

The Emergency Shutdown System can also be activated manually by an operator on the platform or remotely from the nearby onshore facility. There are continuous monitoring systems on Platform Emmy for fire, natural gas leaks, and abnormal system pressure that activate the Emergency Shutdown System.

5.3 Discharge and Drainage Controls [40 CFR 112.7 (a)(3)(iii)]

5.3.1 Onshore Facilities

Tank battery and separation and treating area dike/containment drains, where applicable, are closed and sealed at all times except when draining uncontaminated rainwater. The operator visually inspects any storm water for hydrocarbons (sheen) and only discharges the water if no sheen is visible. Some containment areas are not equipped with drainage valves and accumulated storm water is removed by vacuum truck to prevent damage to containers/equipment. Flapper type valves are not used to drain diked areas. Some containment areas have pits or trenches equipped with pumps to transfer accumulated stormwater into processing facilities. Drainage from undiked areas is confined in a catchment basin or holding pond.

Drainage from most process areas (including the areas surrounding the process equipment, AWT locations, and facility piping) that are not within secondary containment is typically directed toward pipe chases, ditches, or sumps where it can be controlled. Some facilities have secondary containment provided by diversion berms, which route the flow of liquids to an adjacent containment basin.

If oil is detected in containment areas or in field drainage systems, any hydrocarbon spills will be removed by vacuum truck or other appropriate means.

5.3.2 Offshore Facilities

Platform Emmy utilizes oil drainage collection equipment, with facility drains directed toward a central collection sump, to prevent and control small oil discharges around pumps, glands, valves, flanges, expansion joints, hoses, drain lines, separators, treaters, tanks, and associated equipment in order to prevent the facility from having a discharge.

The drilling deck, production deck, satellite platform and helideck are equipped with an open drain system. The collected fluid is directed from each deck into individual liquid seals. The discharge lines from the liquid seals are then directed through individual control valves before the tie-in to the Atmospheric Drain Tank (T-203 ADT),

which has a capacity of 117 barrels. Liquids accumulated in T-203 ADT are pumped out and directed into the production header, which then ties directly into the 12-inch Emmy Production Line to shore. The lower deck and satellite open deck drains are individually collected and then directed into a single liquid seal before directing the flow into the Satellite Drip Tank (T-207 SDT). The Satellite Drip Tank is a double-walled horizontal cylindrical tank that is 30-inches in diameter by 10-feet in length. The fluids collected in T-207 SDT are pumped out based on level switches by and directed into T-203 ADT. Oil collection equipment is emptied frequently to prevent overflow.

5.4 Countermeasures [40 CFR 112.7 (a)(3)(iv) and (v)]

The discharge response objectives are to (1) protect human health and safety and the environment, and then (2) to control the source (i.e. close a valve, plug a leak, shutdown operations). If a spill occurs outside of containment, the appropriate response and resources will be enacted, per Socal Holding's Oil Spill Contingency Plan, based on conditions at the time of a release.

The Oil Spill Contingency Plan contains information on the procedures (*Section 3.0 – Spill Response Procedures*) and resources available, including equipment and response contractors (*Section 4.0 – Spill Response Resources*). The procedures include the notification and immediate response actions, assessment, containment and recovery, sensitive area protection, shoreline and terrestrial cleanup, waste management disposal, and waste management/disposal.

5.5 Methods of Disposal [40 CFR 112.7 (a)(3)(v)]

An effort will be made to minimize the amount of waste resulting from a spill. Recovered oil will be transferred to the production process for reuse. Any contaminated soil, cleanup materials such as oily rags, spill booms, and sorbent materials will be collected, stored in United Nations/Department of Transportation (UN/DOT) approved-containers in regulated areas, and eventually sent off-site for disposal to an approved facility. Waste minimization through the use of recycling, recovery, or treatment will be given a high priority.

Wastes deemed unsuitable for returning to the production process will be shipped to approved waste management sites. Requirements for labeling, placarding, manifesting, and permitting for these waste shipments will follow federal/state requirements.

The need to decant oil-contaminated water back into the environment is not anticipated. If such a need arises, pre-approval from the Federal On-Scene Commander must be obtained and other permits may be required due to environmental sensitivities. The HES Department will be responsible for obtaining all such approvals and permits.

Additional Information about waste management and disposal is provided in the Socal Holding's Oil Spill Contingency Plan, *Section 3.6 – Waste Management/Disposal.*

5.6 Emergency Contacts [40 CFR 112.7 (a)(3)(vi)

The following table provides the names and telephone numbers of Socal Holding's emergency response individuals, as well as an oil spill response contractor, National Response Center, and other federal, state, and local agencies that must be contacted in the event of a reportable discharge.

Socal Holding Main Office Contacts	
Main Office	(562) 624-3400
24-hour Contact Number – Dispatcher	(562) 624-3452 (562) 624-3453
Socal Holding Oil Spill Incident Commanders (Qualified Individuals)	
Dean Persinger	Office (562) 999-8405
Kristy Monji	Cell (562) 505-8657
Field Operations Supervisor	Office (714) 969-3260 Cell (562) 244-8639
Field Operators	(714) 969-3201 (562) 624-3452
Third Party Contractors	
Marine Spill Response Corporation (MSRC) - spill/drill call-out	(562) 981-7600 (Long Beach Office) (800) 259-6772 (800) 645-7745
Ancon Marine	(562) 326-5900 (310) 522-5110
Patriot Environmental Services (24-Hour Response) - Shoreline/onshore response	(800) 624-9136
For any significant spill of 1 barrel (42 gallons) or more, or spill of any quantity to a waterway or area likely to enter a waterway, call:	
National Response Center	(800) 424-8802
California Emergency Management Agency (EMA) - Office of Emergency Services Warning Center	(800) 852-7550 (800) 645-7911
Office of Spill Prevention and Response (OSPR) - 24 Hour Telephone (ask for OSPR Duty Officer)	(916) 778-9338 (916) 445-9338
US Coast Guard, Marine Safety office	(800) 221-8724
City of Huntington Beach Fire Department	911 (714) 536-5411 (8:00 AM to 5:00 PM) (714) 536-5469 (5:00 PM to 8:00 AM)
Orange County Fire Department, CUPA, Health Hazmat Division, Emergency Response Section	911
If the oil spill may affect surface or groundwater, call:	
Santa Ana Regional Water Quality Control Board - Stephen D. Mayville, Enforcement Chief	(951) 782-4992
If the oil spill may affect wildlife, call:	
California Oiled Wildlife Care Network (OWCN)	(877) 823-6926 (530) 752-4167
If the oil spill may present a fire or health hazard, call:	
City of Huntington Beach Fire Department	911 (714) 536-5411 (8:00 AM to 5:00 PM) (714) 536-5469 (5:00 PM to 8:00 AM)
Orange County Fire Department, CUPA, Health Hazmat Division, Emergency Response Section	911
For any amount of oil spilled in a storm drain or flood control system, or during rainfall, call:	
Orange County Department of Public Works	(877) 897-7455
US Coast Guard, Marine Safety office	(800) 221-8724

5.7 Spill Reporting and Spill History [40 CFR 112.4 and 112.7 (a)(3)(vii)]

For any observed accumulation of oil, or release of oil from the facility, the operator will complete an incident report for each event. No process fluids or storm water should be released from any of the facilities due to the well cellars, the containment walls for the large aboveground storage tanks, and the containment berms along the perimeter of each site that surrounds the production, wastewater treatment, and re-injection equipment. Socal Holding utilizes a stormwater release log and a copy is provided in Appendix A.

For reportable oil spill/discharge events (any release of oil in any volume into a storm drain or offsite), the appropriate Notification Form will be completed (Appendix B). On this form, the following information is recorded:

- The exact address or location and phone number of the facility;
- The date and time of the discharge;
- The type of material discharged;
- Estimates of the total quantity discharged;
- The source of the discharge;
- The cause of the discharge;
- Any damages or injuries caused by the discharge;
- Actions being used to stop, remove, and mitigate the effects of the discharge;
- Evacuation requirements needed, if any, and
- The names of individuals and/or organizations who have also been contacted.

Regardless of any other emergency spill reporting, there are specific additional reporting requirements for oil spills under SPCC Plan regulations. If a discharge occurs in excess of 1,000 gallons in a single event, or two discharges over 42 gallons each within any rolling 12-month period, a written report must be made to the U.S. EPA Region IX Administrator and a copy of this SPCC Plan must be submitted within 60 days. The requirements of §112.4 will be followed for this reporting.

6.0 SPILL POTENTIAL [40 CFR 112.7 (B)]

See Tables 1 through 6, which provide the following information:

- Equipment Name;
- Location;
- Oil Source;
- Contents (oil type);
- Source capacity;
- Cause of potential failure/spill;
- Rate of flow;
- Direction of flow; and
- Containment Systems.

The volume, cause of potential failure/spill, rate of flow, and direction of flow is described in each table accordingly.

7.0 BULK STORAGE TANKS, SECONDARY CONTAINMENT AND DIVERSION STRUCTURE, AND OIL SPILL CONTINGENCY PLAN AND MANPOWER [40 CFR 112.7 (c)]

See Tables 1 through 6 for description of the potential spill, direction of flow, and containment systems for each piece of equipment required to be described in this SPCC Plan. Secondary containment at the unit consists of:

- Containment walls (cement block or earthen diked sealed with pavement);
- Berms; and
- Pipe chase areas and recovery systems providing regional secondary containment sufficient for spill containment onsite even in a 25-year, 24-hour storm event for all facilities without their own walls or berms on the Highlands.

7.1 Onshore Facilities [40 CFR 112.7 (c)]

The material and construction of bulk storage containers are compatible with the material stored and conditions of storage such as pressure and temperature. All bulk storage container installations are constructed so that a means of secondary containment is provided for the entire capacity of the largest single container plus sufficient freeboard to contain precipitation.

Diked areas are sufficiently impervious to contain discharged oil. The secondary containment areas are constructed of either concrete block walls or compacted earthen material with sufficient clay content to retain "oil" until cleanup occurs.

The tank battery installation is provided with overflow equalizing lines which exist between containers so a full container can overflow to an adjacent container. The tank battery also has high-level sensors which generate and transmit an alarm signal to the computer where the facility is subject to a computer production control system.

Temporary storage containers, such as Baker Tanks or frac tanks or mobile/portable tanks, may be present at the facility depending on the current needs of the facility. These tanks may contain oily water, oily sludge, or process fluids mixed with wastewater and/or storm water. When these tanks are used, several methods of containment may be used. They may be placed in existing secondary containments that are capable of containing the contents of the temporary tank, or they may be located in an area where any fluid release would flow to an existing drainage system, such as the long below-grade well cellars. A temporary tank may be located in a flat uncontained area if a continuous earthen berm is constructed around it, with sufficient containment volume in case of a release from the temporary tank. Lastly, a temporary tank may be located in a low-lying area where any release would be contained in the vicinity of the tank due to the low elevation.

7.2 Onshore Oil Drilling and Workover Facilities [40 CFR 112.10(c)]

All mobile drilling or workover equipment is provided with appropriate secondary containment. The mobile drilling and workover equipment is positioned to prevent a discharge [§112.10 (b)].

Each well has a well cellar where drilling fluids are drained and contained. The returns bins, which are lined, would overflow to general containment (e.g. berms and well cellars). Fueling from the fuel truck is performed using drip catchment and /or plastic if needed to augment draining to general containment. The mud pump engine tank is situated to overflow into general containment [§112.10 (c)].

A BOP assembly and well control system is installed before drilling below any casing string or during workover operations [§112.10 (d)].

7.3 Offshore Facilities [40 CFR 112.11(c)]

There are no crude oil storage tanks on Platform Emmy. All tanks and vessels on the platform are associated with spill and drainage control, and operations. The decks of the production platform and satellite platform are constructed of steel plate with integrated and sealed kick plates to prevent spills from discharging to the water. In addition, each deck includes drains to a drip/drain tank for the containment and control of any spills.

The facility has an Atmospheric Drain Tank (T-203 ADT), which is located on the Lower Deck. All drainage from upper decks, including spillage, rainwater, and vessel drains, are gathered via gravity drain lines into T-203 ADT and drains from the platform come into two liquid sealed units that allow for the breakout of any gas in the liquid. There are two pumps used to pump fluid from the tank into the 12" production line to shore. There is a Pressure Drain Tank located on the Lower Deck, which collects fluids from the pressure relief systems on the V-100 AWT. The Satellite Drip Tank (T-207 SDT) is located below the lower deck on the northernmost side of the platform. The tank holds all the fluid from the drains on the Satellite Deck and the Lower Deck. The fluid is them pumped from the tank into T-203 ADT.

7.4 Oil Spill Contingency Plan and Manpower [40 CFR 112.7 (d)]

Please refer to the facility's *Oil Spill Contingency Plan*

8.0 INSPECTIONS, TESTS, AND RECORDS

8.1 Onshore Facilities [40 CFR 112.7 (e)]

Each container of oil is visually inspected for deterioration and maintenance needs, including the foundation and support of each container located on or above the surface of the ground. In the event that a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service, the container will be evaluated for the risk of discharge or failure due to brittle fracture or other catastrophe. Field drainage systems (i.e. field drainage ditches or road ditches) and oil traps, sumps, or skimmers are inspected for accumulations of oil.

The facility conducts an inspection of the following aboveground facility transfer operation appurtenances:

- Transfer operation piping and valves;
- Valve glands and bodies;
- Drip pans;
- Pipe supports;
- Pumping well polish rod stuffing boxes; and
- Bleeder and gauge valves.

The facility also conducts an inspection of the produced water handling facilities.

Facility personnel make regular observations of the equipment during normal working hours. Inspections or observations are conducted on the wellheads, pipelines, separation equipment, and tanks. Pipelines are inspected by the following non-invasive methods every two years: guided long range ultrasound (GUL), x-ray inspections on cement-lined pipe, and ultrasonic (UT) inspections. Visual pipeline inspections are performed annually, which

is in compliance with the Department of Oil, Gas, and Geothermal Resources (DOGGR) Assembly Bill 1960 (AB-1960), *Section 1773.3 "Pipeline Inspection and Testing"*. Internal tank inspections and API certified tank inspections are conducted after tank construction. In compliance with AB-1960, in-service tanks are inspected monthly. Inspection forms utilized by Socal Holding personnel for inspections are provided in Appendix A.

Records of the inspections and tests (including those maintained under usual and customary business practices) are retained on file for a minimum period of three (3) years. (Note: Existing inspections and tests kept under usual and customary business practices will suffice if approved by the certifying engineer).

Flowline Inspections

Oil and produced water flowline corridors are observed by operating personnel during travel to and from the well sites. Line and well surveillance is also performed twice per day. Check valves which are installed on header manifolds isolate individual flowlines and wellheads. High-level pressure controllers and anti-corrosion chemicals are used as needed. Flowline maintenance includes repair or replacement of lines based on leak frequency. All leaks are immediately repaired.

The flowline maintenance program includes periodic examinations, corrosion protection (as appropriate), and flowline replacement for the facility. Copies of the inspection forms are provided in Appendix A.

8.2 Onshore Oil Drilling and Workover Facilities [40 CFR 112.10]

Rig Site personnel make regular observations of the Rig Site during normal working hours. Periodic inspections or observations are made of the Rig Site where there is a potential for spills (containers and process equipment). The company keeps additional inspections and records of the drilling rig's components on file, as required.

In the event that a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service, the container will be evaluated for the risk of discharge or failure due to brittle fracture or other catastrophe.

Records of the inspections and tests (including those maintained under usual and customary business practices) signed by the appropriate supervisor or inspector are retained on file for a minimum period of three (3) years. (Note: Existing inspections and tests kept under usual and customary business practices will suffice if approved by the certifying engineer). Copies of the inspection forms for onshore oil drilling and workover facilities are provided in Appendix A.

8.3 Offshore Facilities [40 CFR 112.11]

The Platform Emmy Facility has prepared and maintains a sub-marine piping inspection and testing program as well as written procedures for scheduled periodic inspection and testing of the facility pollution prevention equipment and systems (including liquid level and pressure sensors, sump pump systems, corrosion prevention equipment, valves, and alarms). Simulated discharges are used to test/inspect human and equipment pollution control and countermeasure systems.

The Platform Emmy facility has the following inspection and test procedures in-place:

- Maintenance plans are located in Socal Holding's HES file management system for equipment containing oil, including vessels, pipelines, tanks, and drainage systems. In addition, alarms and sensors are tested monthly, witnessed by CSLC inspector. Visual inspections of decking and drainage systems are performed and logged monthly.

- Daily and monthly operator tasks have been defined to assure reliable operation of the liquid removal system and pump start-up devices (Pumps P-203A/B and P-207).
- In the event that a field-constructed aboveground container undergoes a repair, alteration, reconstruction, or a change in service, the container will be evaluated for the risk of discharge or failure due to brittle fracture or other catastrophe.
- Records of the inspections and tests (including those maintained under usual and customary business practices), signed by the appropriate supervisor or inspector are retained on file for a minimum period of three (3) years. (Note: Existing inspections and tests kept under usual and customary business practices will suffice if approved by the certifying engineer).

A copy of the Platform Emmy Inspection Forms is provided in Appendix A.

9.0 TRAINING AND DISCHARGE PREVENTION [40 CFR 112.7 (f)]

9.1 Personnel Training [40 CFR 112.7 (f)(1)]

Socal Holding maintains the responsibility and provides the following minimum training to oil-handling personnel prior to assignment of job responsibilities:

- Operation and maintenance of equipment to prevent oil discharges;
- Oil discharge procedure protocols;
- Routine handling, loading, unloading, and transfer of products, including crude oil;
- Routine start up and shut down, emergency shutdown, and emergency responses;
- Inspection procedures for pipeline oil leaks, tank integrity, and containment structures;
- Applicable oil spill prevention (State & Federal) laws, rules, and regulations;
- General facility operations; and
- The contents of the facility SPCC Plan and applicable pollution control laws, rules, and regulations.

Training sessions are held at various times throughout the year, but at least annually, for education on spill prevention, control, and response. Individual personnel are trained on an annual basis. Responsible personnel may review potential spill dangers and methods to prevent spill dangers with field personnel during monthly safety meetings. Facility operation procedures and reporting and record keeping procedures are also reviewed with operating personnel. All employees working onsite and potentially exposed to hazardous substances (including oils) health hazards, or safety hazards receive Hazard Communication training. Personnel are generally trained to perform their duties in a manner that ensures worker safety, appropriate (defensive) emergency response, and compliance to hazardous material rules.

SPCC Plan-specific oil spill prevention training is conducted for those employees with specific responsibilities handling oil and oil-containing equipment and containers. These personnel include those responsible for inspections of oil-containing equipment and filling of oil-field operation equipment and implantation of this SPCC Plan. Employee training includes:

- Review of operation and maintenance of equipment to prevent discharges;
- Discharge (spill response) procedure protocols;
- Applicable pollution control laws; and,
- Contents of this SPCC Plan.

Socal Holding has a five level program of continuous on-the-job training for employees involved in field operations. The purpose of the program is to train personnel in the efficient and safe performance of their specific job classifications. The five levels are:

Phase 1 Operation
Phase II Piping, Regulations, Valves, and Gauges (Theory)
Phase III General Services (Theory)
1) Housekeeping
2) Equipment and Tools
Phase IV Advanced Training (Theory)
1) Systems Familiarization
a. Well Production
b. Well Testing
c. Gas Gathering
d. Safety Shut-In
e. Communication
f. Water Systems, etc.
Phase V Field Application of Training
1) Performance of skills and procedures demonstrated in the piping of installations in the field.
2) Housekeeping Services
a. Clean up performance at well servicing or drilling locations
3) Flow Splitters, Treaters, FWKO clean-out
4) Oil spill (land) clean up

Additional information on Socal Holding's Spill Response and Prevention Training Program is provided in the Oil Spill Contingency Plan, *Section 7.3.*

Periodic Briefings

Briefings for oil-handling personnel are conducted at least once a year to assure adequate understanding of the SPCC Plan for the facility. These briefings include:

- Known spill events or failures;
- Discussion of potential discharges;
- Component failures; and,
- Precautionary measures.

SPCC Plan training is conducted for all field operating personnel. Additionally, spill response trainings and briefings are provided prior to or during annual spill drills and may be conducted during daily or monthly safety meetings. Operators are required to review the training material on the pipeline visual leak inspection program prior to performing the annual inspection.

Documentation

Documentation of these Personnel, Training, and Discharge Prevention Briefing programs is maintained for a minimum period of three (3) years. Training Logs and Discharge Prevention Briefing Logs are provided at Socal Holding's HES Filing System.

10. SECURITY [40 CFR 112.7 (g)]

The five (5) sub-locations which comprise Socal Holding's Huntington Beach Oil Field and Platform Emmy (Highlands, the Bolsa Production Leases, the State Lease, and Fort Apache) and Platform Emmy are secured with either fencing or cement block walls, or in the case of Platform Emmy, is located offshore. The Highlands and Fort Apache Site have cement block walls and Site access is controlled through a gate. A security guard is located at the east gate entrance off Golden West Street. To access the Bolsa Production Leases and State Lease, there is a security gate located off Seapoint Avenue.

Access to Platform Emmy is limited to helicopters and boat access, and access to the Site must be approved by passenger manifests prior to visiting the platform.

There is at least one person on duty 24 hours per day, 7 days per week, and 52 weeks per year at both the onshore facility and offshore facility.

11. TANK CAR AND TANK TRUCK LOADING AND UNLOADING [40 CFR 112.7 (h), §112.9, and §112.10]

Tank truck loading/unloading occurs at the Highlands facility for the onshore oil drilling and workover facilities [112.9 and 112.10]. The truck loading/unloading areas utilize the following containment and/or diversionary structures for the loading/unloading area(s):

- Dikes, berms, or retaining walls;
- Curbing or drip pans (transfers are continuously monitored);
- Culverting, gutters, or other drainage systems; and
- Earthen or natural structures that can contain and prevent discharges.

Tank truck loading/unloading does not occur at the Platform Emmy facility.

TABLES

Huntington Beach Oil Fields Equipment List
Aboveground Fixed Containers

	Oil Source		Dimensions	Associated Substance (Contents) (Oil)	Source Capacity (bbls unless noted)	Net Containment Volume (see calculation sheets for dimensions and containment details)	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Observations
Containment #1	T-101	Tank	30 dia. X 16	Crude oil	2,000	3,676.1 BBL	overfill, leak, rupture	2,000	Inside Containment	Containment is concrete bottom and sides.
	T-102	Tank	30 dia. X 16	Crude oil	2,000					
	T-103	Tank	30 dia. X 16	Crude oil	2,000					
	T-104	Tank	30 dia. X 16	Crude oil	2,000					
Containment #2	T-317	Tank	38 dia. X 24	Skim oil	5,000	1,003.5 BBL	overfill, leak, rupture	5,000	Inside Containment. Containment #2 Overfill flow is into Containment #3, then into Containment #4, then into Pipe Chase.	Containment is gravel bottom, concrete sides.
	T-318	Tank	38 dia. X 24	Skim oil	5,000					
	T-350	Tank	38 dia. X 24	Oily water	5,000					
Containment #3	T-342	Tank	30 dia. X 8	Oily water	1,000	2,130 BBL	overfill, leak, rupture	1,000	Inside Containment	Containment is concrete bottom and sides.
	T-343	Tank	30 dia. X 8	Oily water	1,000					
Containment #4	T-340	Tank	12 dia. X 9	Oily water	180	99 BBL	overfill, leak, rupture	180	Inside Containment. Containment #4 Overfill flow is into Containment #3	Containment is concrete bottom and sides.
	T-341	Tank	12 dia. X 9	Oily water	180					
Subtotal Capacity of This Page:					25,360					

Notes:
ft = feet
bbls = barrels
dia = diameter
gal = gallon

Huntington Beach Oil Fields Equipment List
Vessels (Separators, Heater Treaters, Gun Barrel, etc.)

	Oil Source		Dimensions	Associated Substance (Contents) (Oil)	Source Capacity (bbls, unless noted)	Net Containment Volume (see calculation sheets for dimensions and containment details	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Observations
Containment #5	T-339 (SOS)	Horizontal Vessel	12 dia x 47	Crude oil / produced water	1,108	400 BBL	overfill, leak, rupture	1,108	Inside Containment. Containment #5 Overfill flow is into Pipe Chase.	Gravel ground surface with 4" berm
	T-337 WEMCO	Tank	57 L x 11.5 W x 6.2 T	Produced Water	724					
	T-338 WEMCO	Tank	57 L x 11.5 W x 6.2 T	Produced Water	724					
Containment #6	V-150	Horizontal Vessel	7 dia x 15	Crude oil / produced water	135	270 BBL	overfill, leak, rupture	135	Inside Containment	Gravel ground surface and gravel berm surrounding V- 150.
Containment #7	V-104	Horizontal Vessel	10 dia x 42;	Crude oil / produced water	681	1,211 BBL	overfill, leak, rupture	1,370	Inside Containment. Containment #7 Overfill flow is into Pipe Chase.	Horizontal vessels are mounted above containment area on saddles. Packed soil/gravel ground surface with 4" berms derived from piping details laying on the ground.
	V-107	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-108	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-109	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-110	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-111	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-114	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
	V-115	Horizontal Vessel	12 dia x 60	Crude oil / produced water	1,370					
Containment A	V-904	Vertical Vessel	2.5 dia x 9	Condensate	4*	4.2 BBL	leak, rupture	4	Inside Containment. V-904 includes level control sensor and alarms to assure vessel liquid volume does not exceed 4 BBL	Concrete containment vault. V-904 includes level control sensor and alarms to assure vessel liquid volume does not exceed 4 BBL
Containment B	V-323	Vertical Vessel	3 dia x 9	Condensate	13.8	5,056 BBL	overfill, leak, rupture	13.8	Inside Containment. Containment B is Pipe Chase	Concrete foundation sloped to Pipe Chase
	Subtotal Capacity of This Page:				12,979					
	Total Capacity of Tanks and Vessels:				38,339					
	Truck or Rail Loading/Unloading Areas									
	N/A									
	Other Potential Spill Sources (Piping, Surface Impoundments, etc.)									
	Piping within the onshore facilities		Size varies	Crude oil / produced water	14,000 BBL/day	Refer to pipeline maintenance program and piping drawings	Leak, rupture	580	Refer to pipeline maintenance program and piping drawings	
	Ft. Apache to Strip Pipeline		Size varies	Crude oil / produced water	141 BBL/day	Refer to pipeline maintenance program and piping drawings	Leak, rupture	6	Refer to pipeline maintenance program and piping drawings	

Notes:
ft = feet
gal = gallon
bbl = barrel

Huntington Beach Oil Fields Equipment List
Diesel-Filled Equipment and Mobile and Portable Bulk Oil Storage Equipment/Containers

Oil Source	Associated Substance (Contents) (Oil)	Source Capacity	Containment Volume (see calculation sheets for dimensions and containment details	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Observations
T-100 FWP Diesel Fire Water Pump	Diesel	504 gal	504 gal	Overfill, leak, rupture	504 gal/hr	Inside containment	Tank is double-wall construction
(50) 5 gallon buckets in Mechanic Shop	Refined lubricants	250 gallons	17.2	Leak, rupture	5 gal/hr	Inside Containment	
(15) 55 gallon drums across from Warehouse	Refined lubricants	825 gallons	86.5	Leak, rupture	55 gal/hr	Inside Containment	
	Total Capacity:	1,275 gallons					

Notes:
bbls = barrels
dia = diameter
gal = gallon

Huntington Beach Oil Fields Equipment List
Operation Equipment (Transformers, Hydraulic Equipment, etc.)

	Oil Source	Dimensions	Associated Substance (Contents) (Oil)	Source Capacity (bbls, unless noted)	Net Containment Volume (see calculation sheets for dimensions and containment details	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Observations
Transformer Storage Area	(10) Transformers	146 gal	Mineral Oil	1,460 gal	3,600 gal	corrosion. puncture	463 gal	Inside Containment.	Asphalt and concrete paving. Topography indicates Northerly flow direction.
	(11) Transformers	147 gal	Mineral Oil	1,617 gal					
	(3) Transformers	192 gal	Mineral Oil	576 gal					
	(2) Transformers	463 gal	Mineral Oil	926 gal					
Total Capacity in Transformer Storage Area:				4,579 gal					

Notes:
ft = feet
gal = gallon
bbl = barrel

Huntington Beach
Onshore Oil Drilling and Workover Facilities Equipment List

Oil Source	Associated Substance (Contents) (Oil)	Source Capacity (bbls, unless noted)	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Containment Volume (refer to project calculation sheets for dimensions and containment details)
Fixed Containers						
Mud Tanks	Drilling Mud	50	leak, overflow, rupture	50	varies	Berm or liner with gravity drain to well cellar, pipe chase, or other general containment.
Mobile and Portable Containers						
Return Bins	Drilling Mud, ,Oil and Water	50	leak, overflow, rupture	50	varies	Berm or liner with gravity drain to well cellar, pipe chase, or other general containment.
Emergency Generator Fuel Tank	Diesel	5	leak, overflow, rupture	5	varies	Berm or liner with gravity drain to well cellar, pipe chase, or other general containment.
Mud Pumps Engine Fuel Tank	Diesel	10	leak, overflow, rupture	10	varies	Berm or liner with gravity drain to well cellar, pipe chase, or other general containment.
Truck Loading/Unloading Area						
Loading diesel into rig or mud pump engineers from the truck mounted tank	Diesel	10	leak, rupture	-	-	Plastic liner and a boom is used if needed to augment existing berms and drainage controls

Notes:
gal = gallon
bbls = barrels

Huntington Beach
Platform Emmy Facility Equipment List

Location	Oil Source	Associated Substance (Contents) (Oil)	Source Capacity (bbls, unless noted)	Potential Failure	Rate of Flow (bbls/hr)	Direction of Flow	Containment Volume (see calculation sheets for dimensions and containment details	Observations
Fixed Containers								
On Production Deck	V-100 AWT Vessel	Crude oil / produced water	40	leak, rupture	40	Channeled to T-202, then to T-203	117 BBL (T-203 ADT)	
On Lower Deck	T-206 PDT	Crude oil / produced water	21	leak, rupture	21	Channeled to T-207, pumped to T-202		
On Lower Deck	T-202 (T-203 ADT Liquid seal)	Crude oil / produced water	2	leak, rupture	2			
On Lower Deck	Fuel Tank	Diesel	1.6	leak, rupture	1.6			Fire Water Pump Engine has a single-wall fuel tank
Living Quarters Deck	Fixed Generator	Diesel	1.3	leak	1.3	Channeled to T-207, pumped to T-202		
Below Lower Deck	T-207 SDT	Crude oil / produced water	13	leak	13	N/A		Double-wall tank with inspection protocols to prevent failure
On Lower Deck	T-203 ADT	Crude oil / produced water	117	leak	117	Channeled to T-207, pumped to T-202		
On Drill Deck, under the drill rig	BOP Accumulator	Crude oil / produced water	5.7	leak, rupture	5.7	Channeled to T-202, then to T-203		
Total capacity of Aboveground Fixed Containers:			270					
Mobile and Portable Containers								
On Drill Deck	Diesel Tote	Diesel	550 gal	leak, rupture, crane drop	550 gal/hr	Channeled to T-202, then to T-203	117 BBL (T-203 ADT)	
On Drill Deck	Diesel Tote	Diesel	345 gal	leak, rupture, crane drop	345 gal/hr			
On Drill Deck	(2) 55-gal Heavy Duty Motor Oil Drums	Motor oil	110 gal	leak, rupture, crane drop	110 gal/hr			
Total capacity of Mobile and Portable Containers :			1,005 gal					

Notes:
ft = feet
gal = gallon
bbl = barrel

INFORMATION & ANALYSIS OF SPCC FACILITY TANKS & CONTAINMENT

DESCRIPTION OF THE FACILITY

Facility Tank Information	Containment #1				Containment #2			Containment #3		Containment #4	
Tank No.	T-101	T-102	T-103	T-104	T-317	T-318	T-350	T-342	T-343	T-340	T-341
Type of Product (oil, saltwater):	oil	oil	oil	oil	oil	oil	oil/water	oil/water	oil/water	oil/water	oil/water
Type of Tank (stock, water, gunbarrel, etc.):	stock	stock	stock	stock	skim	skim	skim	skim	skim	skim	skim
Fabrication Material (steel, fiberglass, wood):	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel
Fabrication Method (welded, bolted, molded):	bolted	bolted	bolted	bolted	bolted	bolted	bolted	bolted	bolted	bolted	bolted
Foundation Material (concrete, wood, earthen):	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete
Top is Open/Enclosed:	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed
Tank is Located Within Containment (Y/N):	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Tank Diameter (ft) or length:	30	30	30	30	38	38	38	30	30	12	12
Tank Area (ft^2) ($pi*d^2/4$) (w x l):	706.9	706.9	706.9	706.9	1134.1	1134.1	1134.1	706.9	706.9	113.1	113.1
Height/Length of Tank (ft):	15.9	15.9	15.9	15.9	24.8	24.8	24.8	7.9	7.9	8.9	8.9
Tank Volume (ft^3):	11228.4	11228.4	11228.4	11228.4	28071.0	28071.0	28071.0	5614.6	5614.6	1009.3	1009.3
Tank Capacity (bbl):	2000	2000	2000	2000	5000	5000	5000	1000	1000	180	180
Containment Capacity (bbl):				8000			15000		2000		360

Facility Tank Information	Containment #5			Containment #6	Containment #7							
Tank No.	T-339	T-338	T-337	V-150	V-104	V-107	V-108	V-109	V-110	V-111	V-114	V-115
Type of Product (oil, saltwater):	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water	oil/water
Type of Tank (stock, water, gunbarrel, etc.):	Horiz. Vessel	WEMCO	WEMCO	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel	Horiz. Vessel
Fabrication Material (steel, fiberglass, wood):	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel
Fabrication Method (welded, bolted, molded):	welded	welded	welded	welded	welded	welded	welded	welded	welded	welded	welded	welded
Foundation Material (concrete, wood, earthen):	gravel	gravel	gravel	gravel	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete
Top is Open/Enclosed:	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed
Tank is Located Within Containment (Y/N):	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Tank Diameter (ft) or length:	12	57' x 11.5'	57' x 11.5'	7	10	12	12	12	12	12	12	12
Tank Area (ft^2) ($pi*d^2/4$) (w x l):	N/A	655.5	655.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Height/Length of Tank (ft):	47	6.2	6.2	15.0	42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Tank Volume (ft^3):	6220.4	4064.1	4064.1	756.9	3822.3	7690.6	7690.6	7690.6	7690.6	7690.6	7690.6	7690.6
Tank Capacity (bbl):	1108	724	724	135	681	1370	1370	1370	1370	1370	1370	1370
Containment Capacity (bbl):			2556	134.8								10270

INFORMATION & ANALYSIS OF SPCC FACILITY TANKS & CONTAINMENT

Facility Tank Information	Containment A ¥	Containment B	Warehouse ǂ	Storage Area *	Shop Φ	Emergency Pump						
Tank No.	V-904	V-323	Lubricants	Transformers	Lubricants	Fuel						
Type of Product (oil, saltwater):	condensate	condensate	Refined Lubes	Mineral Oil	Refined Lubes	Diesel						
Type of Tank (stock, water, gunbarrel, etc.):	Vert. Vessel	Vert. Vessel	oil storage	oil-filled equipment	oil storage	Fuel						
Fabrication Material (steel, fiberglass, wood):	steel	steel	various	steel	various	steel						
Fabrication Method (welded, bolted, molded):	welded	welded	molded	welded	molded	welded						
Foundation Material (concrete, wood, earthen):	concrete	concrete	concrete	asphalt	concrete	concrete						
Top is Open/Enclosed:	closed	closed	closed	closed	closed	closed						
Tank is Located Within Containment (Y/N):	Y	Y	Y	Y	Y	Y						
Tank Diameter (ft) or length:	2.5	3	Various	Various	Various	3.6 x 5.5						
Tank Area (ft^2) ($pi*d^2/4$) (w x l):	N/A	N/A	Various	Various	Various	19.8						
Height/Length of Tank (ft):	9	9	Various	Various	Various	3.4						
Tank Volume (ft^3):	52.4	77.8	Various	Various	Various	67.3						
Tank Capacity (bbl):	4.0	13.8	1.3	11	0.1	12.0						
Containment Capacity (bbl):	4	14	20	110.0	6.0	12.0						
Facility Capacity (bbl):												**38485**

¥ Vessel includes engineered controls to assure maximum volume of vessel is 4 bbl.

ǂ Content is agregated to 19.6 bbls(825 gal) for calculation purpose. The largest volume is 55 gal

* Ccontent is agregated to 110 bbls ((4,620 gal) for calculation purposes. The largest volume is 11 bbl (463 gal)

Φ Content is agregated to 6 bbl (250 gal) for calculation purposes. The largest volume is 5 gal

Facility Containment Information	Containment #1	Containment #2	Cont. #2 Overfill1	Cont. #2 Overfill 2	Cont. #2 Overfill 3	Containment #3	Containment #4	Cont. #4 Overfill	Containment #5	Cont. #5 Overfill	Containment #6	
Construction Material (earthen, gravel):	concrete	concrete/gravel	Concrete	Concrete	Concrete / Earth	Concrete	Concrete	Concrete	Earthen	Concrete / Earth	Earthen	
Containment Width (ft)(inside toe to inside toe):	90	irregular	78.0	irregular	Varies	78.0	irregular	78.0	irregular	Varies	65.0	
Containment Length (ft)(inside toe to inside toe):	100	polygon	46.0	polygon	Varies	46.0	polygon	46.0	polygon	Varies	24.0	
Area of Containment (ft^2):	9000	7902.0	3588.0	1113.0	340662.0	3588.0	1113.0	3588.0	10294.0	340662.0	1560.0	
Containment Height (ft):	3	1.0	5.5	0.5	0.1	5.5	0.5	5.5	0.3	0.1	0.8	
Gross Containment Volume (ft^3):	27000	7902	19734.0	556.5	28388.5	19734.0	556.5	19734.0	2573.5	28388.5	1299.5	
Void Area of Tanks Located within Containment (ft^2):	2120.6	2268.2	1413.7	0.0	0.0	706.9	0.0	0.0	1311.0	0.0	0.0	
Void Volume of Tanks within Containment (ft^3):	6361.7	2268.2	7775.4	0.0	0.0	3887.7	0.0	0.0	327.8	0.0	0.0	
Net Containment Volume (ft^3):	20638.3	5633.8	11958.6	556.5	28388.5	15846.3	556.5	19734.0	2245.8	28388.5	1299.5	
Net Containment Capacity (bbl):	3676.1	1003.5	2130.0	99.1	5056.5	2822.5	99.1	3515.0	400.0	5056.5	231.5	
Capacity of Largest Tank within Containment (bbl):	2000	5000	3997	1866	1767	1000	180	81	1108	708	135	
Spillage Capacity of Containment (%):	**183.8%**	**20.1%**	**53.3%**	**5.3%**	**286.1%**	**282.2%**	**55.1%**	**4358.4%**	**36.1%**	**714.2%**	**171.7%**	

Containment #2 Overfill flow is into Containment #3, then into Containment #4, then into Pipe Chase.

Containment #4 Overfill flow is into Containment #3

Containment #5 Overfill flow is into Pipe Chase

INFORMATION & ANALYSIS OF SPCC FACILITY TANKS & CONTAINMENT

Facility Containment Information	Containment #7	Containment A ¥	Containment B	Warehouse ł	Storage Area *	Shop Φ	Emergency Pump				Pipe Chase	
Construction Material (earthen, gravel):	Earthen	Concrete	Concrete / Earth	Concrete	Asphalt	Concrete	Steel				Concrete / Earth	
Containment Width (ft)(inside toe to inside toe):	irregular	5.0	Varies	26	irregular	36.0	5.8				Varies	
Containment Length (ft)(inside toe to inside toe):	polygon	9.5	Varies	36	polygon	60.0	4.0				Varies	
Area of Containment (ft^2):	27212	47.5	340662.0	936.0	9827.0	2160.0	23.3				340662.0	
Containment Height (ft):	0.25	0.5	0.1	0.1	0.1	0.1	3.8				**0.1**	
Gross Containment Volume (ft^3):	6803	23.8	28388.5	78.0	818.9	180.0	87.5				28388.5	
Void Area of Tanks Located within Containment (ft^2):	0.0	0.0	0.0	600.0	4000.0	1000.0	0.0				0.0	
Void Volume of Tanks within Containment (ft^3):	0	0.0	0.0	50.0	333.3	83.3	0.0				0.0	
Net Containment Volume (ft^3):	6803.0	23.8	28388.5	28.0	485.6	96.7	87.5				28388.5	
Net Containment Capacity (bbl):	1211.7	4.2	5056.5	5.0	86.5	17.2	15.6				5056.5	
Capacity of Largest Tank within Containment (bbl):	1370	4	13.8	1.3	11.0	0.1	12.0				N/A	
Spillage Capacity of Containment (%):	**88.5%**	**105.8%**	**36510.5%**	**383.6%**	**786.3%**	**14469.1%**	**130.0%**				**N/A**	

Containment #7 Overfill flow is into Pipe Chase

Containment B includes Pipe Chase

Facility Production Information	
Total Capacity of Tanks within Containment (bbl):	38485
Number of Production Wells Delivering Product to this Facility:	varies
Daily Total Production of Wells Delivering Product to this Facility (BFPD):	15000
Daily Oil Production of Wells Delivering Product to this Facility (BOPD):	640
Daily Saltwater Production of Wells Delivering Product to this Facility (BSWPD):	14360
Days of Production Capacity or delivery at this Facility:	2.6

Facility Drainage Information	
Direction of Topographical Drainage from Containment:	North
The Nearest Navigable Water for this Facility is:	Pacific Ocean (west of the facility)

Constants & Conversion Factors:

pi = 3.14159	gallons/barrel = 42.0	hours/day = 24.0
gallons/ft^3 = 7.481	barrel/ft^3 = 0.17812	

SOCAL HOLDINGS, LLC - FACILITY SPCC PLAN | **HUNTINGTON BEACH - PLATFORM EMMY**

INFORMATION & ANALYSIS OF SPCC FACILITY TANKS & CONTAINMENT

DESCRIPTION OF THE FACILITY

Facility Tank Information	Containment #1 (T-203 ADT)						containment #2 (Lower Deck)				
Tank No.	BOP Accumulator	V-100	Diesel Tote	Diesel Tote	Lube Oil	Lube Oil	T-206	T-202	Fuel Tank	T-203	
Type of Product (oil, saltwater):	oil/water	oil/water	fuel	fuel	lube oil	lube oil	oil/water	oil/water	fuel	oil/water	
Type of Tank (stock, water, gunbarrel, etc.):	accumulator	vertical vessel	tote	tote	drum	drum	horizontal vessel	surge tank	tank	tank	
Fabrication Material (steel, fiberglass, wood):	steel	steel	plastic	plastic	steel	steel	steel	steel	steel	steel	
Fabrication Method (welded, bolted, molded):	welded	welded	molded	molded	welded	welded	welded	welded	welded	welded	
Foundation Material (concrete, wood, earthen):	steel	steel	steel	steel	steel	steel	steel	steel	steel	steel	
Top is Open/Enclosed:	open	enclosed	enclosed	enclosed	enclosed	enclosed	enclosed	enclosed	enclosed	enclosed	
Tank is Located Within Containment (Y/N):	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Tank Diameter (ft) or length:	4	4	4 x 4	3.7 x 3.7	1.5	1.5	4.25	1.5	3 x 2	8 x 16	
Tank Area (ft^2) ($pi*d^2/4$) (w x l):	12.6	12.6	16.0	13.7	1.8	1.8	14.2	1.8	6.0	128.0	
Height/Length of Tank (ft):	2.55	15.2	4.6	3.4	4.0	4.0	8.3	6.2	1.5	5.1	
Tank Volume (ft^3):	32.0	224.5	73.6	45.9	7.1	7.1	117.7	11.0	9.0	656.6	
Tank Capacity (bbl):	5.7	40.0	13.1	8.2	1.3	1.3	21.0	2.0	1.6	117.0	
Containment Capacity (bbl)						69.5				141.5	
Facility Capacity (bbl):											211.0

Facility Containment Information	containment #1	containment #2		
Construction Material (earthen, gravel):	steel	steel		
Containment Width (ft)(inside toe to inside toe):	8.0	151.0		
Containment Length (ft)(inside toe to inside toe):	16.0	51.0		
Area of Containment (ft^2):	128.0	7701.0		
Containment Height (ft):	5.1	0.3		
Gross Containment Volume (ft^3):	652.8	1925.3		
Total Area of Tanks Located within Containment (ft^2):	0.0	1000.0		
Berm Height Volume of Tanks within Containment (ft^3):	0.0	250.0		
Net Containment Volume (ft^3):	652.8	1675.3		
Net Containment Capacity (bbl)	116.3	298.4		
Capacity of Largest Tank within Containment (bbl):	40.0	117.0		
Spillage Capacity of Containment (%):	**290.8%**	**255.1%**		

Facility Production Information	containment #1	containment #2
Total Capacity of Tanks within Containment (bbl):	69	141
Number of Production Wells Delivering Product to this Facility:	varies	varies
Daily Total Production of Wells Delivering Product to this Facility (BFPD):	1860	1860
Daily Oil Production of Wells Delivering Product to this Facility (BOPD):	1800	1800
Daily Saltwater Production of Wells Delivering Product to this Facility (BSWPD):	60	60
Days of Production Capacity or delivery at this Facility:	0.0	0.1

Facility Drainage Information	
Direction of Topographical Drainage from Containment:	any
The Nearest Navigable Water for this Facility is:	Pacifoc Ocean

INFORMATION & ANALYSIS OF SPCC FACILITY TANKS & CONTAINMENT

Analysis of Potential Facility Discharge - Prediction & Control

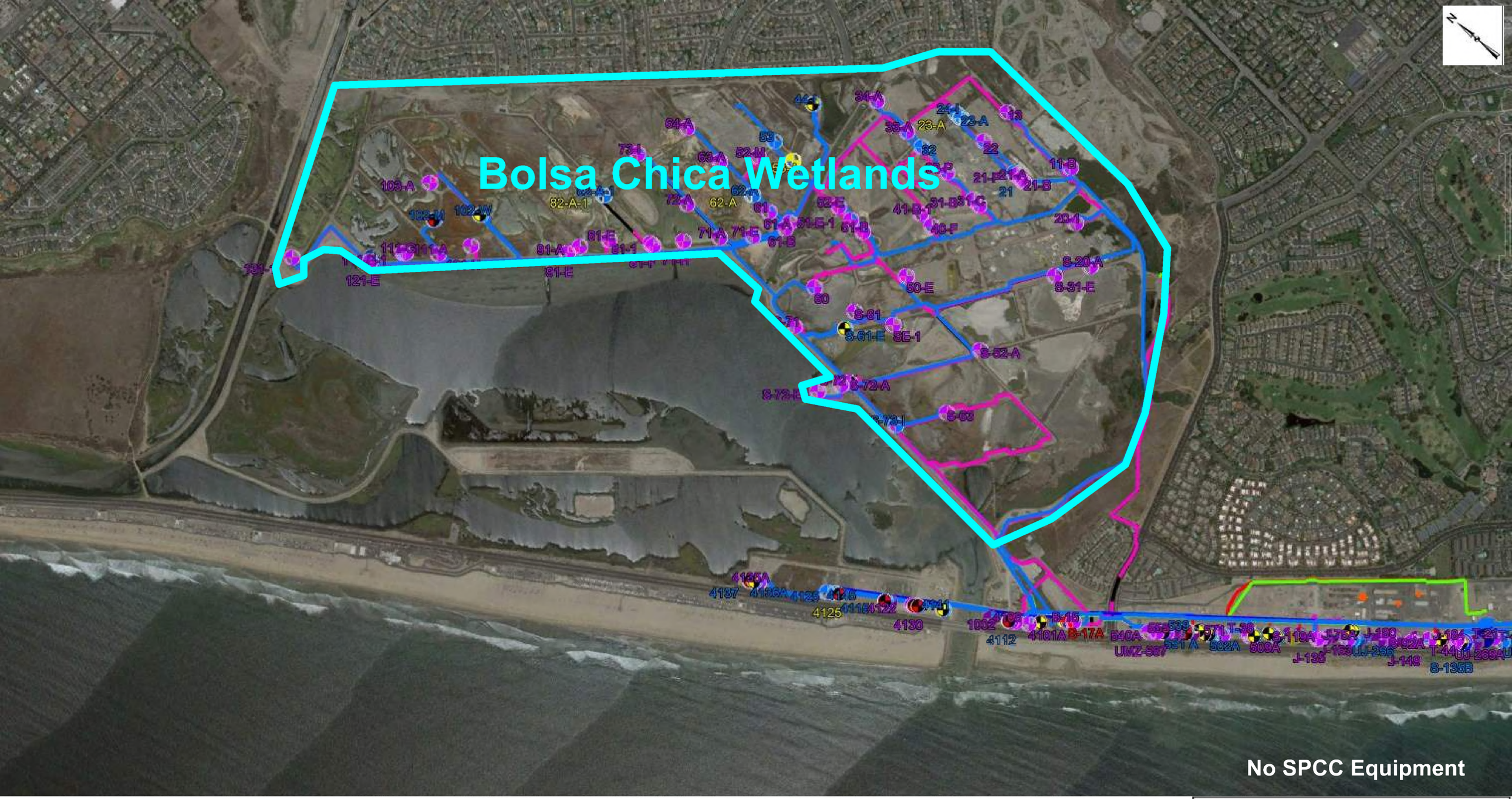
Source:	BOP Accumulator	V-100	Diesel Tote	Diesel Tote	Lube Oil	Lube Oil	T-206	T-202	Fuel Tank	T-203	Production	Containment
Potential Failure Type	Overflow, leaking, rupture, vandalism, fire										Leaking, rupture, vandalism, fire	Erosion, equipment damage, overflow
Potential Quantity (bbl)	5.7	40.0	13.1	8.2	1.3	1.3	21.0	2.0	1.6	117.0	1860.0	117.0
Potential Rate (bbl/hr)	5.7	40.0	13.1	8.2	1.3	1.3	21.0	2.0	1.6	117.0	77.5	117.0
Probable Direction of Flow	containment	containment	containment	containment	containment	containment	containment	containment	containment	containment	containment	Pacific Ocean
Flow to Containment?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N

Constants & Conversion Factors

pi =	3.14159	gallons/barrel =	42.0	hours/day =	24.0
gallons/ft^3 =	7.481	barrel/ft^3 =	0.17812		

FIGURES


Bolsa Chica Wetlands
Fort Apache
Highlands
State Lease & BMat
Platform Emmy
N
SPCC Overview Map
Huntington Beach, California
250 125 0 250 500
Feet
By:
CALIFORNIA RESOURCES CORPORATION
Figure 1
Revisions by: California Resources Corp.
October 2019



Legend
- Oil Well
- Pipeline

Huntington Beach Facilities
Huntington Beach, California

250 125 0 250 500
Feet

By: California Resources Corporation

Revisions by: California Resources Corp.
October 2019

Figure 2



Legend

Oil Well

Pipeline

State Lease and BMat

Huntington Beach, California

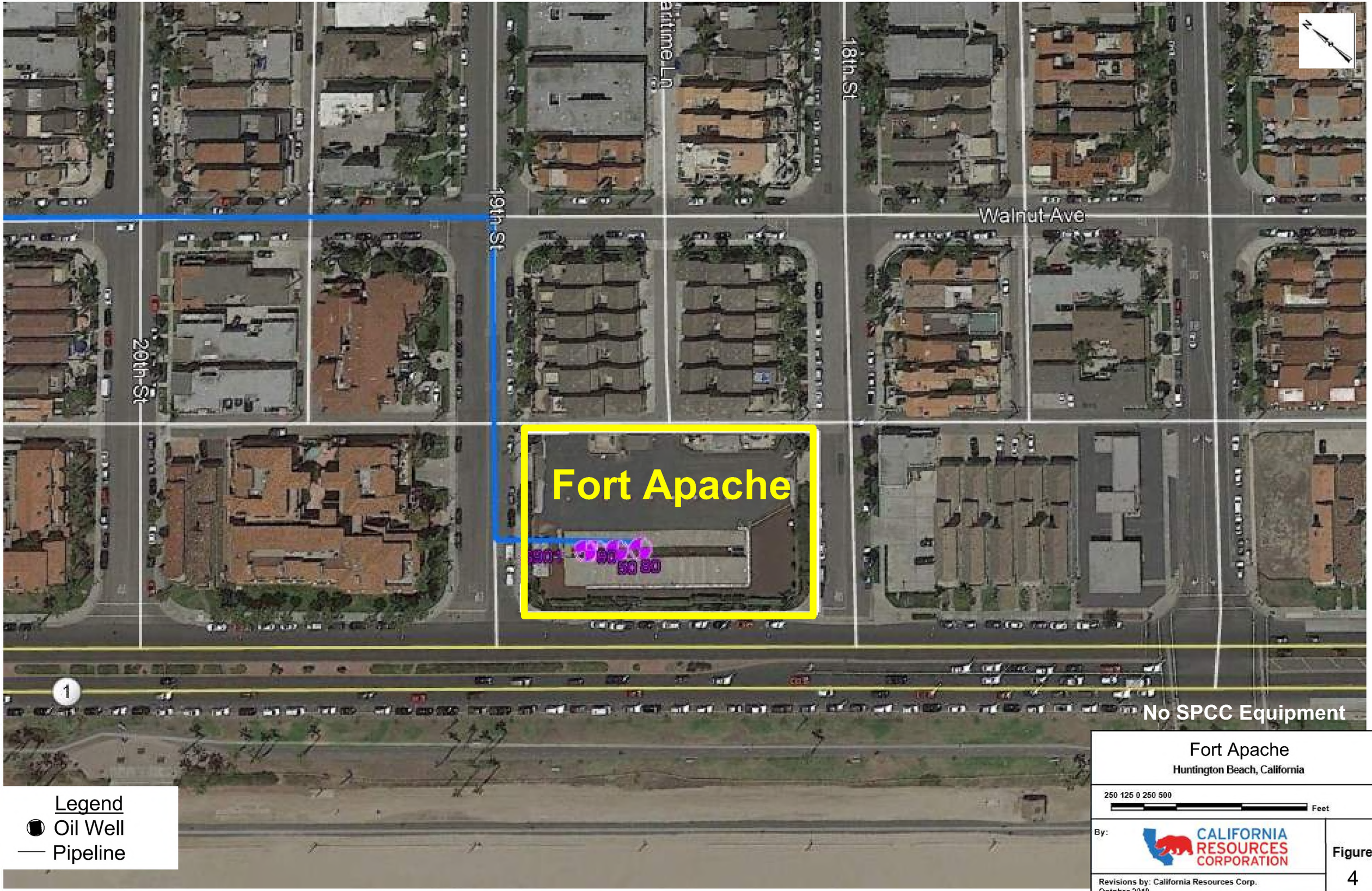
250 125 0 250 500

Feet

By: CALIFORNIA RESOURCES CORPORATION

Revisions by: California Resources Corp.
October 2019

Figure 3



Fort Apache
Huntington Beach, California

250 125 0 250 500
Feet

By: CALIFORNIA RESOURCES CORPORATION

Revisions by: California Resources Corp.
October 2019

Figure
4



Legend

- Oil Well
- Pipeline
- Topo Flow
- Transformer Storage Area
- Bulk Oil Storage
- Vessels
- Tanks
- Truck Loading Area
- In-Service Diesel Equipment

N

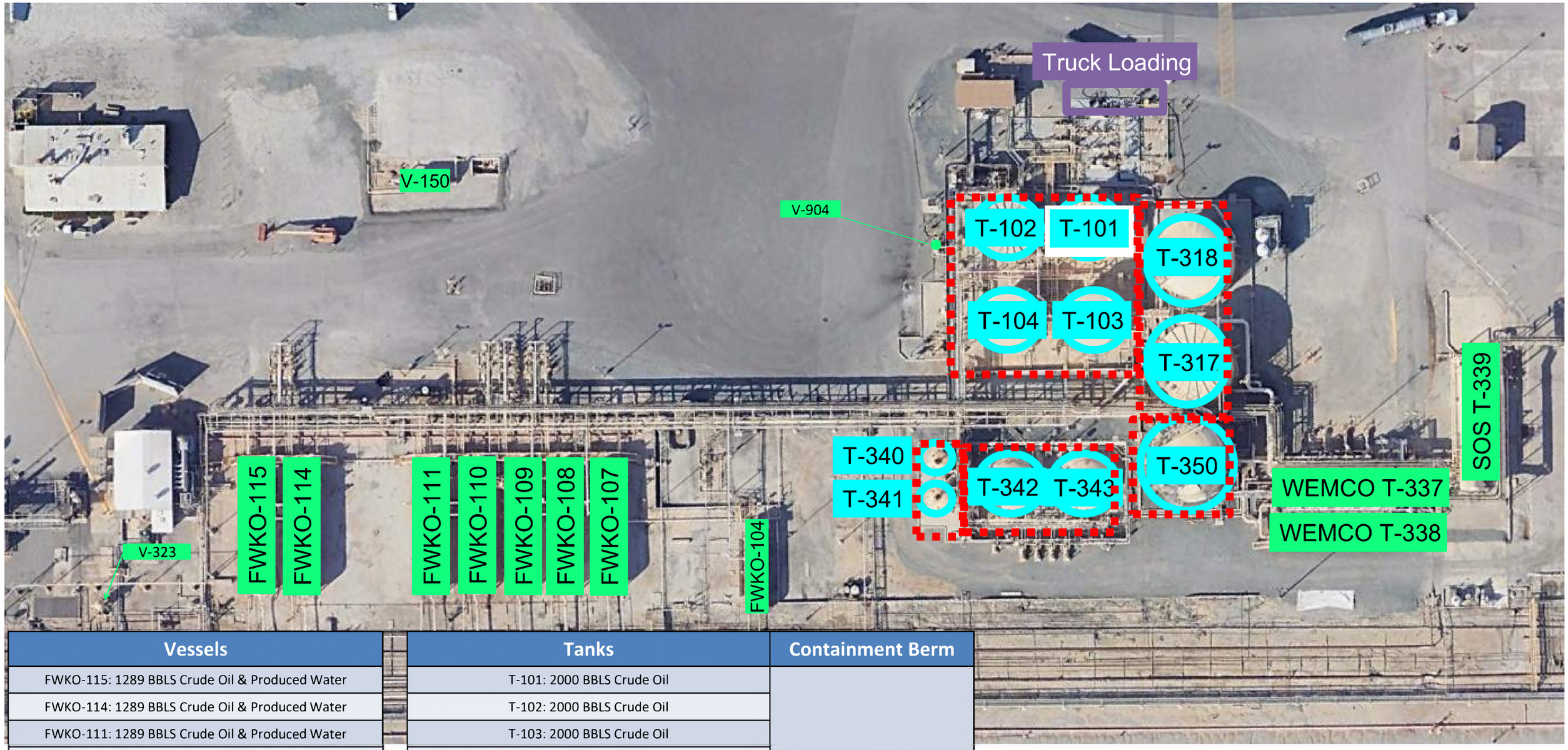
Highlands
Huntington Beach, California

250 125 0 250 500
Feet

By: CALIFORNIA RESOURCES CORPORATION

Revisions by: California Resources Corp.
October 2019

Figure 5



Vessels
FWKO-115: 1289 BBLS Crude Oil & Produced Water
FWKO-114: 1289 BBLS Crude Oil & Produced Water
FWKO-111: 1289 BBLS Crude Oil & Produced Water
FWKO-110: 1289 BBLS Crude Oil & Produced Water
FWKO-109: 1289 BBLS Crude Oil & Produced Water
FWKO-108: 1289 BBLS Crude Oil & Produced Water
FWKO-104: 634 BBLS Crude Oil & Produced Water
V-150: 103 BBLS Crude Oil & Produced Water
WEMCO T-337 Crude Oil & Produced Water
WEMCO T-338 Crude Oil & Produced Water
SOS T-339: 1000 BBLS Crude Oil
V-904: 11 BBLS Condensate
V-323: 9 BBLS Condensate

Tanks	Containment Berm
T-101: 2000 BBLS Crude Oil	6029 BBLS
T-102: 2000 BBLS Crude Oil	
T-103: 2000 BBLS Crude Oil	
T-104: 2000 BBLS Crude Oil	
T-318: 5000 BBLS Skim Oil	
T-317: 5000 BBLS Skim Oil	
T-350: 5000 BBLS Oily Water	
T-342: 1000 BBLS Drain Tank Oily Water	2764 BBLS
T-343: 1000 BBLS Drain Tank Oily Water	
T-340: 180 BBLS Oily Water	2053 BBLS
T-341: 180 BBLS Oily Water	

N

Highlands Facility - Tank Farm

Huntington Beach, California

250 125 0 250 500 Feet

By: CALIFORNIA RESOURCES CORPORATION

Revisions by: California Resources Corp.
October 2019

Figure 6

APPENDIX A
INSPECTION LOGS

SPCC FACILITY MONTHLY INSPECTION FORM

Lease/Facility: _____

Name of Person Inspecting: _____

Date of Inspection: _____

		YES	Describe Required Maintenance	Maximo Work Order	N/A
1	Access road is capable of providing safe entry and truck loading?				
2	**Containment berms and containment area are:**				
	A) Free of vegetation and debris at or on the berm?				
	B) Is in good condition and not damaged or compromised by equipment or foot traffic?				
	C) Free of fluids and rainwater?				
	D) Has no evidence of oil or other spills?				
3	No unauthorized equipment is being stored on top of or outside of the facility's secondary containment (site perimeter berm)?				
4	All rain water valves on secondary containment are closed and secured (unless in use for rain water management)?				
5	Storm drains that release rainwater from site have valves in the locked position?				
6	**Aboveground Bulk Storage Containers:**				
	A) All chemical totes, drums and other bulk storage containers are stored within secondary containment?				
	B) Containers are in good condition with no signs of corrosion, cracks, deterioration or discharge?				
	C) Containers' supports or foundations are in good condition?				
	D) Containers are not stored near storm drains?				
7	**Tanks and tank foundations:**				
	A) Tanks are in good condition, well maintained and show no signs of leakage or liquid accumulation at the base, seams, and associated piping, plugs and fittings?				
	B) Tanks and foundations show no signs of corrosion or shell distortions?				
	C) Bolts and/or welds intact with no deterioration of gaskets?				
	D) Foundation is in good condition and shows no signs of settling or erosion?				
	E) The paint coatings, insulation systems and tank grounding systems are in good condition and in working order (if present)?				
	F) Drains and overflow lines are adequate size and free of blockages?				
8	Are tanks and vessels properly labeled with: A) Tank identification number B) Tank contents C) Hazard placards or labels (for appropriate materials) D) Out of Service or OOS labels; 1 ft high letters and 5 ft above ground surface.				
9	All flow lines and gathering lines are free of visual signs of corrosion, leaks and liquid accumulation?				

		YES	Describe Required Maintenance	Maximo Work Order	N/A
10	Oil loading areas and equipment are clean with no evidence of oil spills?				
11	All oil-filled equipment is stored within secondary containment?				
12	Field and/or road ditches are maintained and have no evidence of oil spills?				
13	Well cellars are free of fluids?				
14	Well cellar boards (where applicable) have sufficient grating to exclude people/animals?				
15	**Aboveground Valves, Fittings and Piping:**				
	Are aboveground valves, fittings, piping and pipeline supports in proper position, in good condition and showing no signs of cracks, splits, corrosion, leaks or any other evidence of damage?				
	A) Flanged, screwed or welded joints and connections				
	B) Pump packing				
	C) Pumping well stuffing box packing				
	D) Gauge glass				
	E) Piping and fittings				
	F) Bearing seals				
	G) Relief valves				
	H) Bleeder and Gauge valves				
	I) Valve glands, bodies and handles				
	J) Pressure gauges and Thermometers				
	K) Drip pans				
	L) Foundation pads for pumps and compressors				
16	Good general housekeeping?				
	A) Trash lids are closed/bins are covered when not in use?				
	B) Maintain orderly storage areas (waste, equipment laydown, etc.)?				
	C) Dirt/soil piles are covered?				
	D) Ground surface is free of oil, litter, oily rags and other debris?				
	E) Out of service oil-filled equipment and oily piping, tubing, etc. is stored over drip pans or properly				
17	Unusual or special conditions at this location?				
18	Have Maximo work orders been submitted for all items requiring maintenance on this form?				

Supervisor Signature: _____

Date of Signature: _____

APPENDIX B
SAMPLE NOTIFICATION FORMS

Example

OIL & PRODUCED WATER RELEASE REPORT FORM

(Huntington Beach Offshore - Platform Emmy and Emmy Pipelines)

☐ INITIAL REPORT ☐ FOLLOW UP REPORT #_____

(THIS FORM MAY BE USED FOR EITHER REPORT. INITIAL REPORTS SUBJECT TO REVISION AS INFORMATION IS GATHERED)

1. Company Name: **SoCal Holding** Date:

2. *Latitude* *Longitude*
   ☐ Platform Emmy State Lease PRC 425 33 deg 39 min 44 sec N -118 deg 02 min 37 sec W
   ☐ Pipeline

3. Distance to nearest Highway or Town Miles from

4. Equipment involved:

5. Est. Quantity oil spilled: bbls Est. Quantity water spilled: bbls In spill containment? Yes ☐ No ☐

6. Weather Conditions Sea State

7. Person Discovering Release: Date/Time of Discovery

8. Regulatory reporting by: Telephone Number

9. Date/Time when release began (or estimate):

10. Date/Time repair completed (or estimate):

11. Full description of incident, to extent known, including injuries and fatalities, name of surface water impacted or dry waterway, area contaminated ☐ Land ☐ Water ☐ Dry Waterway

12. Description of action(s) taken thus far to reduce release and begin cleanup:

13. Action(s) to be taken to avoid future recurrence:

IF PUBLIC HEALTH OR SAFETY IS THREATENED, IMMEDIATELY NOTIFY: Date & Time

14. ☐ "911"

IF RELEASE OF OIL IN ANY AMOUNT ENTERS THE OCEAN, IMMEDIATELY NOTIFY:

		Control #	Person Contacted	Date & Time
15.	☐ NRC 800-424-8802			
16.	☐ CAL-EMA ("OES") 800-852-7550			
17.	☐ HBFD Dispatch 714-533-1306 or call 911			
18.	☐ USCG LA Command Center 310-521-3805			
19.	☐ OSPR Dispatch Operator 916-341-6957 (24 HR) OSPR Staffed Dispatch 714-743-4396 (Bus Hrs)			
20.	☐ SLC 562-590-5201 (LB) and 714-536-3018 (HB) (NOTE: Notify SLC for any liquid pollutant to water)			
21.	☐ DOGGR (714) 816-6847			
22.	☐ Oiled Wildlife Care Network 877-823-6926 (In cases of possible oiled wildlife)			

IF RELEASE ORIGINATES FROM A DOT REGULATED PIPELINE AND IS > 5 bbls OR CAUSES SIGNIFICANT INJURIES, PROPERTY DAMAGE >$50,000, FIRE, OR EXPLOSION, IMMEDIATELY NOTIFY:

23.	☐ NRC 800-424-8802			
24.	☐ State Fire Marshal 562-497-9100			

If release REACHES OR threatens the shore, IMMEDIATELY notify:

25. ☐ Lifeguards: HB City Beach 714-536-2581,
Bolsa Chica State Beach 714-377-5691, and
Huntington State Beach 714-536-1455

26. ☐ Bolsa Chica On-Site CA F&G Manager (714) 840-1959 or cell (714) 421-8496

COMPANY NOTIFICATION AND REPORTING

27. ☐ Personnel notified within company (log call even if unable to contact)

Name/Title	Date	Time
☐ Notify Incident Response Team (IRT) 877-902-8468 or 800-247-5977		
☐ Notify SoCal Hold. Public Affairs to call state and national elected or appointed officials, as appropriate		
☐ Notify SoCal Hold. Public Affairs to call local officials such as the HB Mayor, as appropriate.		

28. **INVESTIGATION AND FOLLOW UP:**

A. Initial assessment of primary causes (if known):

☐ Human Error ☐ Equipment Malfunction

☐ External Causes ☐ Equipment Corrosion

☐ Normal Operations ☐ Other _____

B. Briefly describe possible cause(s): _____

C. Detailed description of repairs and cleanup measures taken: _____

D. Date and time cleanup completed: _____

E. PM No. and Estimated cost required to cleanup: _____

F. Agency visits and/or follow-up comments from agencies _____

COMPANY ROUTING (Route completed form within ten days of release event):

	Signature:	Date:
Field Operations Supervisor (FOS):		
Superintendent Facilities/Operations		
Environmental Coordinator		

EXAMPLE

Submittal of Information to Regional Administrator for Qualified Discharge(s)

In the event of a qualified discharge or discharges, this page can be utilized to provide official notification to the Regional Administrator. If the Facility has had a discharge or discharges which meet one of the following two criteria, then this report must be submitted to the U.S. EPA Regional Administrator within 60 days. (Check as appropriate)

☐ This Facility has experienced a reportable spill as referenced in 40 CFR Part 112.1(b) of 1,000 gallons or more.

☐ This Facility has experienced two (2) reportable spills (as referenced in 40 CFR Part 112.1(b) of greater than 42 gallons each within a 12-month period.

Facility Name and Location:

Facility Contact Person (Name, address/phone number):

Facility maximum storage or handling capacity:

Facility normal daily throughput:

Describe the corrective action and countermeasures taken (include description of equipment repairs and replacements):

Describe the Facility (maps, flow diagrams and topographical maps attached as necessary):

Describe the cause of discharge (as referenced in 40 CFR Part 112.1(b)) including failure analysis of the system is:

Describe the preventative measures taken or contemplated to be taken to minimize the possibility of recurrence:

Other pertinent information:

A copy of this report is also to be sent to the appropriate state agency in charge of oil pollution control activities.

APPENDIX C
SUPPORTING DOCUMENTATION

Figure 3.1-1

Initial Response Actions

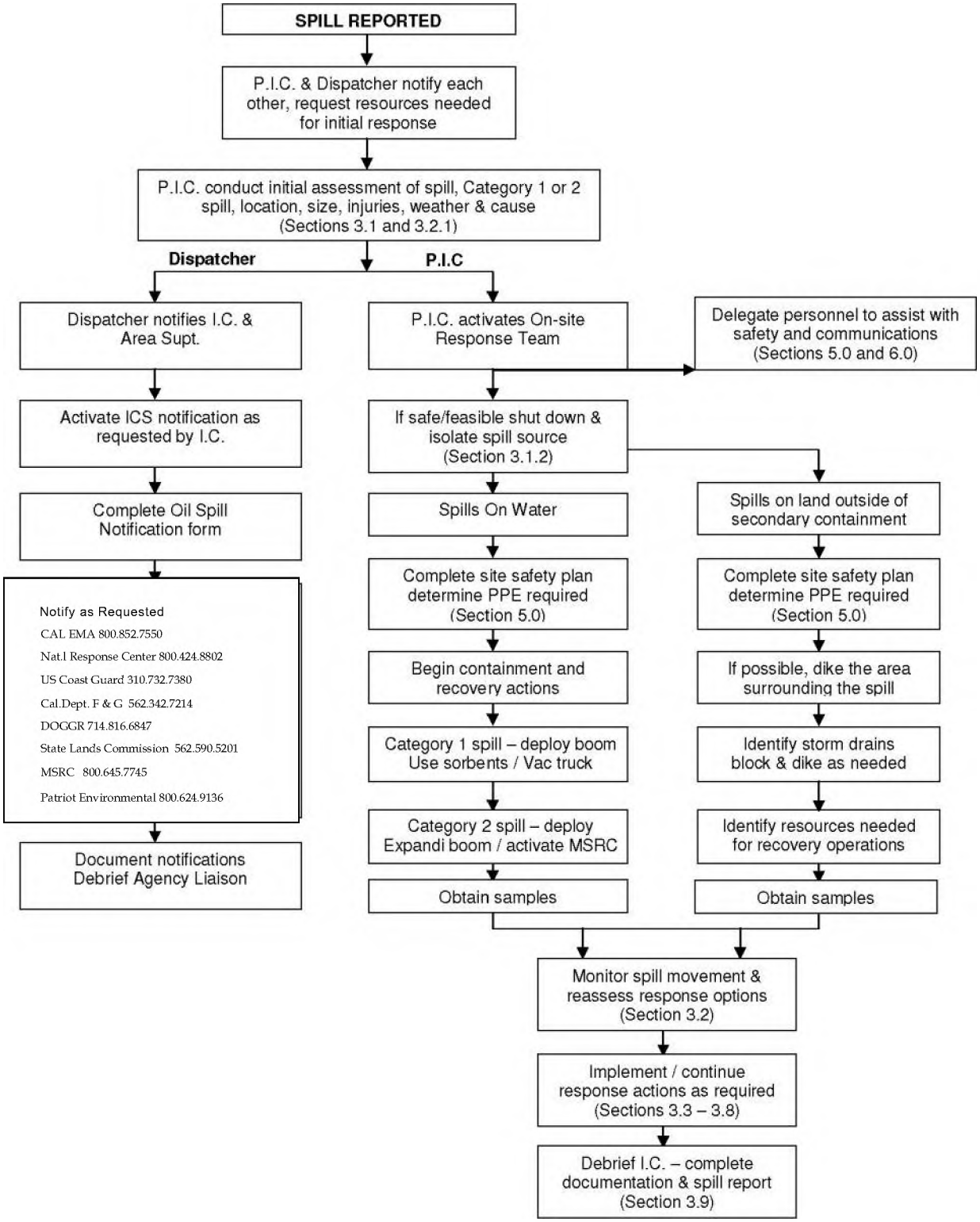


Figure 3.1-2

Initial Response Checklist

Response Action	Date/Time	Initials
Spill Observer and Fac. Ops. Supervisor (P.I.C.)		
Spill Observer reports spill to the Fac. Ops. Supervisor (P.I.C.)		
P.I.C. assumes role of Incident Commander- notifies Dispatcher of the incident		
P.I.C.- conduct initial assessment, category 1 or 2, location, size, injuries, spill source, initiate evacuation - if required		
P.I.C.- activate On-site Response Team, ensure the safety of all responders		
P.I.C.- if safe, shut down and isolate spill source		
P.I.C.- eliminate ignition sources around spill area		
Safety- don PPE, if required, and conduct safety assessment and air monitoring. **Note On Scene Weather conditions on Fig. 3.1-5**		
P.I.C.- implement initial containment actions		
P.I.C.- Identify resources needed for recovery operations (NRCES)		
P.I.C.- obtain samples of spilled material for analysis		
P.I.C.- monitor spill movement, reassess response actions and safety issues		
Dispatcher		
Ensure the FO supervisor of the area closet to the spill has been notified		
Get assistance for answering phone calls and documentation		
Notify the Incident Commander (I.C.)		
Activate I.C.S. notification as requested by the I.C.		
Complete the Oil Spill Notification form, determine longitude & latitude of spill site		
Begin agency notification as requested by the Incident Commander		
Document all agencies notified, debrief Agency Liaison of agencies notified		
Incident Command System		
Assemble at the Incident Command Post		
Attend briefing of the initial response actions		
Prepare site safety plans- including PPE, air monitoring, hazard assessment, and decontamination		
Implement supplemental containment and recovery actions		
Assess- notifications, weather, sensitive areas, spill trajectory, response resources		
Prepare Incident Action Plan		

3.1.1. Notification Procedures

Initial Notification

All oil spills or observations of oil on the ocean waters in the vicinity of the Huntington Beach Unit must be reported immediately to the CRC DISPATCHER OR THE FACILITIES OPERATION SUPERVISOR OF THE LOCATION ASSOCIATED WITH THE INCIDENT, WHICHEVER IS IN CLOSEST PROXIMITY TO THE INCIDENT. The Dispatcher or FO Supervisor receiving the initial call will immediately report the oil spill incident to the other person. Subsequent notifications to CRC response personnel, regulatory agencies, response contractors, and sensitive area managers are discussed below.

The recommended notification sequence for key notifications is provided in Figure 3.1-3. Telephone lists for making both external and internal notifications are provided in Table 3.1-1 and 3.1-2, respectively.

Notification of the CRC On-site Response Team (ORT) and Incident Command System (ICS) will typically involve the following:

1. Observer notifies the appropriate CRC Supervisor (separate CRC Supervisors are assigned to location) and/or CRC Dispatcher using a hand-held radio or direct communication

2. CRC Dispatcher monitors all radio frequencies and generally receives the notification at the same time as the CRC Supervisor but confirms the supervisor has been notified.

3. CRC Supervisor activates the local ORT using direct communication, hand-held radios, or PA system; determines if the spill is a Category One or Category Two incident; and notifies the Dispatcher of the incident categorization.

4. Dispatcher notifies the Incident Commander, makes the necessary regulatory agency notifications, and activates MSRC for Category Two incidents. Regulatory agency notifications includes required notification to the National Response Center (NRC) at the earliest practicable moment (within 1 hour) following the discovery of a release of hazardous liquid.

5. Incident Commander determines level of ICS activation and directs Dispatcher to activate the appropriate personnel via cell phones or e-mails.

A list of the CRC personnel that will staff each ICS response position and their telephone and pager numbers is provided in Table 3.1-2.

The names and phone numbers of the regulatory agencies, emergency services, response contractors, and sensitive area managers that may require notification are provided in Table 3.1-1 (see Section 3.4.4 for sensitive area locations). A decision guide is provided in Figure 3.1-4 for determining if notification of regulatory agencies is required for a given incident.

Other notification information, including a list of the other federal, state, and local agencies available to provide assistance in the event of a spill, is provided in Table 3.1-1.

The notification information form provided in Figure 3.1-5 should be used when making notifications for both aquatic and terrestrial spills. This form as well as the form provided in Figure 3.1-6, should be submitted to the CRC Safety and Environmental Department to satisfy internal written reporting requirements.

Figure 3.1-3
Prioritized Spill Notification Guide

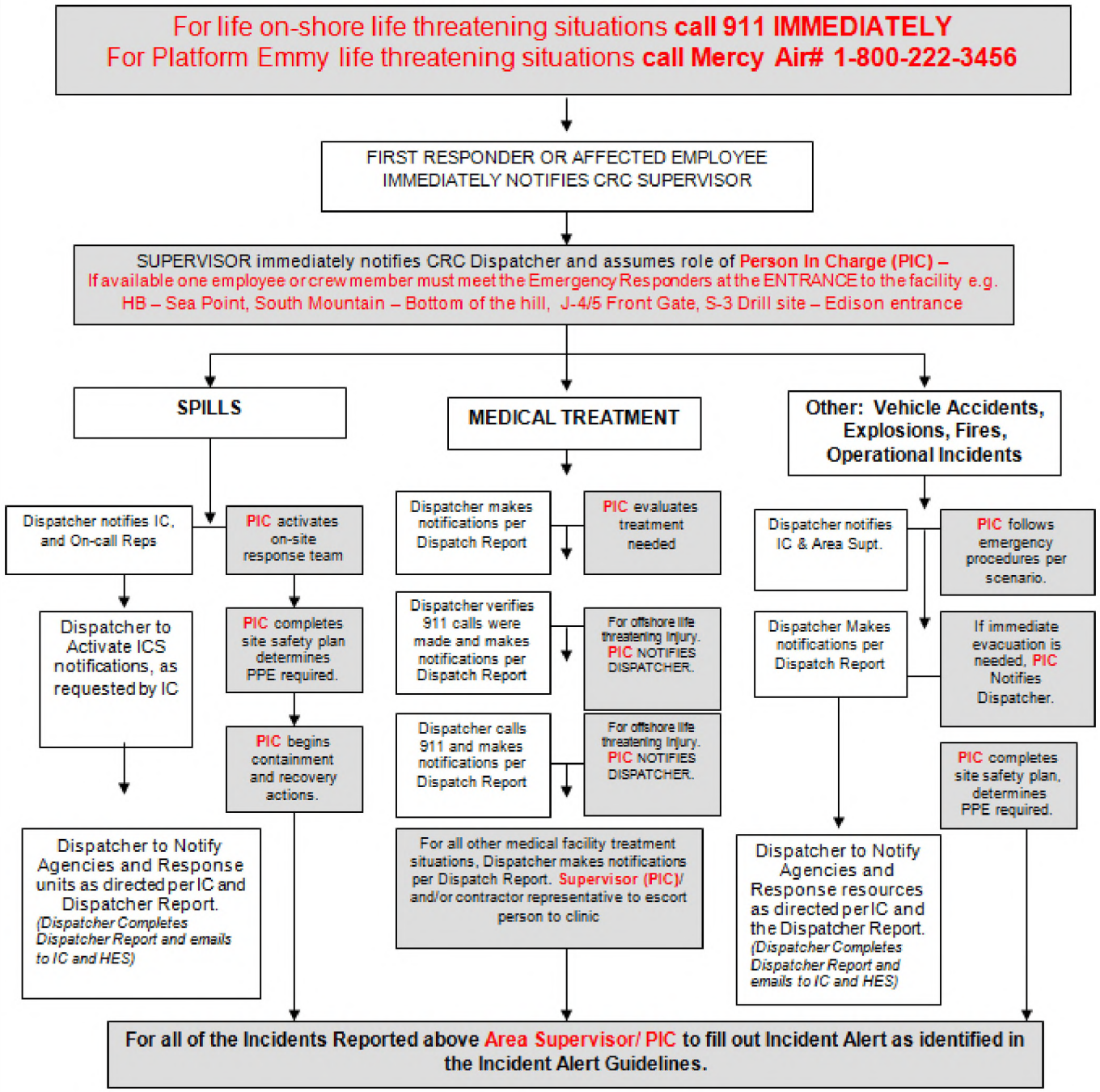


Table 3.1-1

Oil Spill Notication List

CRC 24-HOUR EMERGENCY NOTIFICATION		
Dispatcher	562-624-3452	562-624-3453
CRC INCIDENT COMMAND ORGANIZATION		
SEE TABLE 3.1-2 FOR SPECIFIC RESPONSE PERSONNEL AND TELEPHONE NUMBERS		
REGULATORY AGENCY		
Name	**Business Phone**	**24-Hour Phone**
National Spill Response Center	(800) 424-8802	(800) 424-8802
U.S. Coast Guard (MSO) Long Beach	(310) 732-2020	(310) 732-2020
California Office of Emergency Services	(800) 852-7550	(800) 852-7550
Regional Water Quality Control Board	(213) 266-7500	
Department of Fish and Wildlife	(916) 445-0045	(800) 825-7550 (CalOES)
EPA Region 9 - San Francisco	(415) 744-2000	(415) 744-2000
State Lands Commission	(562) 590-5201	(562) 590-5201
EMERGENCY RESPONSE SERVICES		
Huntington Beach Fire Dept./Paramedics	(714) 536-2504	911
Huntington Beach Police Department	(714) 536-5333	911
Orange County Harbor Patrol	(714) 840 5222	911
S. Calif. Mutual Aid Organization	(800) SKY-USER PIN# 4724234	(800) SKY-USER PIN# 4724234
MEDICAL FACILITIES		
Huntington Beach Hospital	(714) 842-1473	(713) 843-5011
AltaMed Medical Group	(714) 847-4222	(714) 877-4222
Fountain Valley Regional Hospital	(714) 979-1211	(714) 979-1211
UCI Medical Center	(714) 634-6011	(714) 634-6011
St. Mary's Medical Center	(310) 491-9000	(310) 491-9000
RESPONSE CONTRACTORS/ORGANIZATIONS		
Gallagher Marine Systems.	(856) 642-2091	(703) 683-4700 or (215) 492-5473
Marine Spill Response Corp. (MSRC)	(562) 981-7600	(800) 645-7745
NRC Environmental Services (NRCES)	(562) 432-1304	(562) 432-1304
WILDLIFE CARE AGENCIES/ORGANIZATIONS		
Oiled Wildlife Care Network (OWCN)	(916) 445-3153/0237	(916) 445-3153/0237

TABLE 3.1-1

Oil Spill Notification List (Cont'd)

SENSITIVE AND ECONOMICALLY IMPORTANT AREA AND MANAGERS/OWNERS		
Area	**Manager/Owner**	**Phone Number**
Abalone Cove Ecological Reserve	Dept. of Fish and Game	(916) 445-0045
Pt. Fermin Marine Life Refuge	Dept. of Fish and Game	(916) 445-0045
Cabrillo Beach Wetlands	Cabrillo Beach Museum	(310) 548-7562
Long Beach Shoreline Lagoon	City of Long Beach	
Los Angeles Harbor	Los Angeles Harbor	(310) 732-3500
Power Plant Intake - Terminal Island	So. California Edison	(562) 983-2691
Long Beach Harbor	Long Beach Harbor	(562) 590-4185
Long Beach City Beach	City of Long Beach Lifeguards	(562) 570-1360
Catalina Landing	Avalon Harbormaster	
Long Beach Marina	City of Long Beach Lifeguards	(562) 570-1360
Alamitos Bay/Marina	Dept. of Fish and Game	(916) 445-0045
Power Plant Intake - Los Alamitos	So. California Edison	(562) 493-7891
Seal Beach	City of Seal Beach Police Department	(562) 431-2541
Seal Beach National Wildlife Refuge	US Navy	(562) 626-7215 / (562) 598-1024
Anaheim Bay/Seal Beach Naval Weapons Station	US Navy	(562) 626-7011
Bolsa Bay & Bolsa Chica Ecological Reserve	Dept. of Fish and Game	(916) 445-0045
Bolsa Chica/Huntington/Corona Del Mar State Beaches	State Parks and Recreation	(714) 536-1454
Huntington Wetlands	Victor Laipzig	(562) 590-5132
Huntington Harbor	US Navy	(562) 626-7215
Santa Ana River Estuary	National Marine Fisheries Service	(562) 980-4000
Upper Newport Beach Ecological Reserve	Dept. of Fish and Game	(916) 445-0045
Irvine Coast Marine Life Refuge	Dept. of Fish and Game	(916) 445-0045
Lockton Insurance Brokers		(213) 689-0065
Orange County Water Sheds	County of Orange	(877) 897-7455

Table 3.1-1

Oil Spill Notification List (Cont'd)

Additional Governmental Agency/Organization Contacts

State Agencies	Phone Number
Department of Fish and Game	(562) 598-4291
California Coastal Commission	(562) 590-5071
Cal EMA	(800) 852-7550
Regional Water Quality Control Board	(213) 266-7500
Division of Oil and Gas	(714) 816-6847
State Lands Commission	(562) 590-5201
State Coastal Conservancy	(510) 286-1015
Department of Forestry	(916) 653-0989
Parks and Recreation Commission	(800) 777-0369
California Highway Patrol	(916) 843-3000
Department of Transportation	(202) 366-4595
Office of Archaeology and Historic Preservation	(916) 445-7000
Federal Agencies	
National Oceanic and Atmospheric Association (NOAA) (24 Hrs)	(206) 526-4911
Fish and Wildlife Service (USFWS)	(503) 231-6118
Federal Aviation Administration	(800) 255-1111
Occupational Safety and Health Administration (OSHA)	(800) 475-4019
Department of the Interior (USD01)	(202) 208-3985
National Weather Service	(805) 988-6610
Orange County	
Orange County Sheriffs Department	(714) 288-6742
Orange County Fire Authority	(949) 770-6016
Orange County Harbor, Beaches & Parks	(714) 973-6861

Table 3.1-1

Oil Spill Notification List (Cont'd)

Additional Governmental Agency/Organization Contacts (Cont'd)

Municipalities	
Huntington Beach Lifegards	(714) 536-2581
Newport Beach Police	(949) 644-3717
Newport Beach Fire Department	(949) 780-0981
Other	
So. Coast Air Quality Management District:	(909) 396-2000
Central Coast Wildlife Rehabilitation Guild	(805) 543-9453
Media Contacts	
KABC Radio:	(310) 840-4900
KABC Television Channel 7	(816) 863-7777
KNBC Television Channel 4E	(818) 840-4444
Wildlife Care Agencies and Organizations	
Department of Fish and Game - Wildlife Protection	(562) 590-5132
U.S. Fish and Wildlife Service - Ecological Services	(805) 664-1766
National Marine Fisheries Service	(800) 424-8802
Wildlife on Wheels	(818) 951-3656
California Marine Mammal Center	(415) 289-7325
Hubbs Institute	(619) 226-3870
Pacific Wildlife Project	(714) 831-1178
Tri-State Bird Rescue and Research, Inc.	(302) 737-9543

Table 3.1-2
CRC Incident Organization Notification List

Name[1]	Incident Command Organization Title	Office No.	Cellular Telephone No.	Home Telephone No.
Command Policy Group				
C. Plant[2]	Executive IC	562-624-3202	562-900-0526	562-694-8490
S. Ellaboudy	Public Relations	562-624-3348	310-760-1003	N/A
Adam Smith	Legal Advisor	818-661-3705	661-431-0845	N/A
C. Harris	HSE	562-624-3311	562-256-4752	N/A
Incident Command Group				
(P) D. Persinger[2]	Incident Commander	562-624-3284	562-900-0273	714-839-9004
(R) C. Harris	Incident Commander	562-624-3311	562-256-4752	N/A
(P) Bill Blair	Information Officer	562-624-3376	562-743-8336	949-855-2879
(R) Bryan Hardwick	Information Officer	714-969-3272	562-477-2649	562-429-1418
(P) W. Oliver	Safety Officer	562-624-3290	562-900-1560	562-943-7067
(R) Nichole Meeker	Safety Officer	562-624-3271	562-261-4483	969-607-6243
(P) T. Crouthers	Environmental Chief	562-624-3531	562-544-6308	N/A
(P) B. Carroll	Operations Chief	562-624-3283	562-305-5846	N/A
(R) J. Perz	Operations Chief	562-624-3149	562-606-3124	714-892-2272
(R) D. Dimovski	Operations Chief	714-969-3305	562-900-2761	N/A
(P) M. Williams	Planning Chief	714-969-3236	714-907-2028	N/A
(R) C. Kolar	Planning Chief	562-624-3372	562-606-9275	N/A
(R) S. Cisneros	Planning Chief	562-624-3156	562-240-7444	N/A
(P) N. Rogers	Logistics Chief	562-624-3447	562-307-5105	714-968-5386
(R) H. Melendez	Logistics Chief	562-624-3433	562-900-1428	N/A
(P) Becky Sly	Finance Chief	562-624-3356	N/A	N/A
(R) C. Nordin	Finance Cheif	562-624-3318	661-805-3358	N/A
Location Numbers	**Telephone Number**			
CRC Dispacth	(562) 624-3452 and (562) 624-3453			
Production Offices	**Facilities Operations Sups. Lease Oper.**			
HB Surveillance Operator	Operations	N/A	714-476-0859	N/A
HB Tank Farm Control Room	Operations	N/A	714-329-8244	714-969-3201
Dispatcher				
Line 1	(562) 624-3400			
Line 2	(562) 624-3452			
Line 3	(562) 624-3453			
EOC Main Switchboard	(562) 624-3402			

1 - (P) = Primary Job (R) - Relief for Primary
2 - Individuals authorized to serve as the Qualified Individual

4.0 SPILL RESPONSE RESOURCES

4.1. General

This section provides comprehensive and up-to-date listings of the resources available for spill response operations at the CRC Huntington Beach Unit and a summary of the response equipment inspection procedures. CRC maintains an inventory of on-site equipment and a staff of trained personnel for responding to spills from their facilities.

The on-site resources will generally be used for the complete containment, recovery, and cleanup of most small and some moderate spills. In the event of a discharge which is beyond CRC's initial response capabilities, contract manpower and equipment resources can be obtained through Oil Spill Removal Organizations (OSROs). These OSROs can provide manpower and containment/cleanup equipment for the response operation on land, water or adjacent shorelines. Notification/implementation of these resources will typically be handled by the Qualified Individual. Table 4-1 provides a quick reference to the OSROs and details their response capability and estimated response times. Additional OSRO data, including equipment inventories is provided as Attachment 4-1.

Table 4-1

Contracted Response Resources

Los Angeles/Long Beach Captain of the Port (COTP) Zone

USCG Classified Oil Spill Removal Organization (OSRO)						
OSRO Name	Contract Number	Environment Type	Facility Classification Level			
			MM	W[1]	W[2]	W[3]
MSRC	6MPA 282	River/Canal	X	X	X	X
		Inland	X	X	X	X
		Nearshore			X	X
		Open Ocean			X	X

Additional Response Resources		
Contractor Name	Contract Number	Response/Mobilization Time
PATRIOT Environmental Services		2 hours
NRC Environmental		2 hours

4.2. CRC Equipment and Personnel

The major spill response equipment owned and maintained on-site by CRC is described below along with the available specifications and capabilities. The availability of trained response personnel is also discussed below. The majority of response equipment is stored at, or near, the docks on the four production islands, although additional equipment is stored at other locations within the Huntington Beach Unit. An inventory of the CRC on-site response equipment is provided in Table 4-2.

4.2.1. Boom and Deployment Equipment

The boom and deployment vessels that are available at the CRC Huntington Beach Unit are listed in Table 4-2.

4.2.2. Recovery Equipment

CRC does not own any skimmers or pumps dedicated specifically for spill response operations but does maintain an adequate supply of sorbents for recovery of smaller spills.

4.2.3. Temporary Storage Equipment

The temporary storage of recovered oily liquids and solids from spill response operations will be conducted as outlined in Section 3.6. The state and federal interim storage requirements will be met primarily through the use of MSRC and response contractor barges, response vessels, and portable tankage, as well as barges of opportunity.

The transfer of wastes into onshore tankage will be conducted by transferring oil from skimmers or vessels into vacuum trucks and then shuttled to the tank farm where it will be pumped into the appropriate tank.

4.2.4. Equipment Inspection

All CRC-owned response equipment and supplies are inspected on deployment. Inspections are conducted to verify that the equipment is available and in good condition and that adequate inventories of sorbents and other supplies are maintained. Equipment testing is conducted semi-annually and typically coincides with the deployment drills to minimize wear and tear on the equipment. Inspection and testing of work and crew boats is done in accordance with the manufacturer's recommendations, and because they are normally used for other purposes, the schedules are not included herein. An equipment inspection form is shown in Figure 4-1.

Table 4-1. Company Onsite Response Equipment Storage and Handling Procedures

EQUIPMENT	STORAGE	INSPECTION/ MAINTENANCE	TESTING
PLATFORM EMMY			
1 18' rigid hull inflatable boat with towing bit and 75 hp or greater outboard motor	Onsite at Platform	Monthly	Monthly
2 750' Roto Pacs of Model 4300 Expandi spill boom			Annually
7 drums oil sorbent pads (17½" x 17½" x ½")			Annually
HUNTINGTON BEACH			

Table 4-1. Company Onsite Response Equipment Storage and Handling Procedures

EQUIPMENT	STORAGE	INSPECTION/ MAINTENANCE	TESTING
1 13' rigid hull inflatable boat with 30hp outboard and trailer	Onsite at State Lease	Monthly	Annually
1500' of swamp boom and associated anchors/ground tackle			Annually
Oil snares, and response equipment			Annually

4.2.5. Personnel

The CRC spill response personnel consist of On-site Response Team (ORT) and Incident Command System (ICS) members. The ORT will generally provide the initial response to oil spills, including boom deployment and recovery operations, and consists primarily of production personnel. The ICS consists primarily of CRC management and technical personnel and will manage the response to larger incidents and/or provide support and supervision to the ORT and response contractors for both large and small incidents.

During normal work hours, ORT and ICS members can generally respond to a spill within 10 to 15 minutes of discovery. Response time during off hours is typically **less** than 1 hour as team members carry pagers and generally live within close proximity to the CRC facilities. All ORT members are at least 24-hour HAZWOPER trained (Level 4) and are qualified to deploy boom and perform general response duties.

4.2.6. Fire Fighting Equipment

The CRC Huntington Beach Unit fire fighting equipment is listed in Table 4-3 and summarized below; descriptions of equipment uses and fire fighting procedures is provided in Section 3.7.

The CRC fire fighting equipment will be supplemented by equipment and personnel from the Huntington Beach Fire Department who are under a prearranged agreement to respond to fires at the CRC facilities. .

4.2.7. Non-Cascadable Equipment

The OSPR regulations require each facility nominate certain equipment to be non-cascadable. This equipment must be mobilized within 2 hours and on-scene within 12 hours. All of the CRC-owned response equipment is considered non-cascadable.

Additional information on cascadable and non-cascadable equipment available from MSRC is provided in the MSRC OSRO Application.

4.2.8. Transportation

Transportation would be a vital component for all stages of an oil spill response. Once a response team is activated, transportation to the spill site as quickly as possible is mandatory. Personnel, response equipment, materials, and supplies would need to be transported to and from command posts, the spill site, and staging areas. Transportation services would also be needed for wildlife rescue, surveillance, and waste disposal operations.

The various transportation modes that may be required during spill response operations may include:

- Vehicles (trucks, trailers, busses, vans, ATVs).
- Fixed-wing aircraft.
- Helicopters.
- Marine vessels.

Equipment, personnel, and resources would be transported to the scene by the most expeditious means available. The mode of transportation would likely include a combination of vessels and vehicles, and possibly aircraft. Actual routes would be determined at the time of an incident and would depend upon the location of the incident, resources to be mobilized, estimated trajectory of the release, and current road, weather, and sea conditions

4.3. Marine Spill Response Corporation (MSRC)

MSRC is an independent, non-profit, national spill response company dedicated to rapid response. MSRC's capabilities include a large inventory of vessels, equipment, and trained personnel, complemented by a large contractor workforce in numerous locations in the continental U.S., Hawaii, and the Caribbean. MSRC also provides dedicated access to alternative response technologies such as in situ burn kits and aerial and vessel dispersant spraying operations. MSRC resources are available to respond to potential spills from the site that reach or have the potential to reach San Pedro Bay and/or Los Angeles Harbor. A list of their major response equipment is provided in Table 4-4.

Table 4-3

CRC Huntington Beach Unit Fire Fighting Equipment

LOCATION	TYPE	NUMBER AVAILABLE
AWT-1	20 LB C/O	1
AWT J	20 lb CO_2	1
Shipping Pump	20 llb C/O	2
Fire Water Pump	20 lb C/O	1
T-328	30 lb C/O	1
Block House	20 lb C/O	1
E/T 339	30 lb C/O	1
S/W T-339	20 lb C/O	1
Wemco T-338	20 lb CO_2	1
S/Side T-103	20 lb CO_2	1
S/Side T- 104	20 lb CO_2	1
Auto Shop	10 lb C/O	2
Maintenance Office	20 lb C/O	1
Hazmat Trailer	30 lb c/o	1
Heliport	20 lb SP, 30 lb C/O, 150lb W.U.	1,2, and 1 respectively
T-111	20 C/O	1
Heliport Gate	20 lb C/O	1
T-326	20 lb C/O	1
Pit #3	20 lb C/O	1
T-327	20 lb C/O	1
S. of T-339	20 lb C/O	1
E. of KO 117	30 lb C/O	1
Trailer	20 lb C/O	1
Trailer	2.5 S/P	1
Fort Apache	20 lb C/O	1
Building 1	20 lb CO_2	4
Building 2	20 lb CO_2	4
Building 3	20 lb CO_2	4

Table 4-3

CRC Huntington Beach Unit Fire Fighting Equipment (Cont'd)

LOCATION	TYPE	NUMBER AVAILABLE
Building 4	20 lb CO_2	4
Chemical Lab	13lb Halon , 9 lb Halon	4 and 1, respectively
Chemical Lab	, 20 lb c/o, 15 lb CO_2	1, and 1, respectively
Electric Shop (warehouse and instrument)	30 lb c/o	3
Electrical Station (north of Gas Plant)	20 lb c/o	2
Emmy Scrubber	20 lb c/o	1
Gas Plant	20 lb c/o and 17 lb Halon	3 and 1, respectively
Gas Plant	30 lb c/o	4
Gasoline Pump (gas station)	20 lb c/o	1
HazMat Storage	10 lb c/o	1
Highlands Office	20 lb c/o	2
Outside Chemical Lab (HazMat storage)	30 lb c/o	1
Main Office	10 lb c/o, 5lb Halon, 14lb Halon	3 ,1, and 2 respectively
Seapoint (by the gate)	20 lb c/o	1
Stretford	30 lb c/o	1
Tank Farm	20 lb c/o, 30 lb c/o, 14 lb Halon, and 15 lb CO_2	2, 2, 1, and 1, respectively
Training Room	10 lb C/O, and 14 lb Halon	1 each
Trucks	20 or 30 lb c/o	7 and 2, respectively
Warehouse	20 lb c/o	2
Weld Shop	30 lb c/o, 20 lb CO_2, 20 lb c/o	1, 2, and 2, respectively

4.4. Other Available Contractors

In the unlikely event of a major incident where the aforementioned resources were inadequate to effectively handle the spill response, other local, regional, and potentially national or international resources could be mobilized. In most cases CRC will rely on their primary contractors to identify and mobilize these additional resources and, as such, it is not necessary to address all of these resources in this plan. Descriptions of selected local and regional contractors and their major spill response equipment inventories are provided below. Additional information on the equipment is available from the respective contractors.

4.4.1. Patriot Environmental Services

Patriot is a response contractor based in the Los Angeles area and is equipped to conduct both nearshore and open water recovery activities as well as shoreline cleanup operations. A list of their major response equipment and number of trained personnel is provided in Table 4-6.

4.4.2 NRC Environmental Services

NRCES is an industry supported cooperative that has been established in Southern California to provide aquatic spill containment and cleanup equipment and personnel for spills. A list of their major response equipment and trained personnel is provided in Table 4-7.

4.5. Specialized Support Services and Equipment

A variety of specialized support services and equipment is often required for a moderate to large spill response. These could include helicopters, vacuum trucks, caterers, hotels, portable toilets, and many others. Table 4-8 provides a listing of local and regional specialized services and equipment suppliers that could be called upon to provide support during a spill response effort at the CRC Huntington Beach Unit.

Table 4-4

MSRC
Spill Response Resources

RECOVERY			
Quantity	**Equipment Type**	**Total Derated Capacity (bpd)**	**Location**
2	GT-185 Skimmers	2,736	Long Beach (Berth 53&57)
1	Stress I Skimmer	15,840	Long Beach (Berth 53&57)
4	Lori Lors Skimmers	9,908	Long Beach (Berth 53&57)
2	GT-185 Skimmers	2,742	Long Beach (Berth 53&57)
1	Multi-Model Skimmer	2,500	Long Beach (Berth 53&57)
1	Komara K-12 Skimmer	275	Long Beach (Berth 53&57)
1	Queensboro Skimmer	905	Long Beach (Berth 53&57)
1	WP-1 Skimmer	3,017	El Segundo
1	Walosep W4 Skimmer	3,017	El Segundo
2	Queensboro Skimmers	1,810	El Segundo
1	GT-185 Skimmer	1,371	El Segundo
1	Aard Vac Skimmer	3,840	El Segundo
3	GT-185 Skimmers	4,104	Long Beach (W/H & Yard)
2	Lori Side Collection Skimmers	4,954	Long Beach (W/H & Yard)
3	Lori Bow Collection Skimmers	7,431	Long Beach (W/H & Yard)
2	W-1 Skimmers	3,840	Long Beach (W/H & Yard)
Total 28		**68,290**	

Table 4-4

MSRC
Spill Response Resources (Cont'd)

CONTAINMENT BOOM		
Quantity (ft)	**Size and Type**	**Location**
3,650	43-in Expandi	Long Beach (Berth 53&57)
1,500	43-in Expandi	Long Beach (Berth 53&57)
1,500	43-in Expandi	Long Beach (Berth 53&57)
2,000	20-in Harbor Boom	Long Beach (Berth 53&57)
1,000	43-in Reelpack	Long Beach (Berth 53&57)
1,000	43-in Reelpack	Long Beach (Berth 53&57)
60	Simplex	Long Beach (Berth 53&57)
1,980	Sea Sentry II	Long Beach (Berth 53&57)
7,700	Sea Sentry II	El Segundo
6,000	Texa Boom	El Segundo
180	Simplex	El Segundo
500	Fire Boom + 400' Guide	El Segundo
1,000	18-in Harbor Boom	Long Beach (W/H & Yard)
2,900	36-in Kepner	Long Beach (W/H & Yard)
2,500	20-in Solid Fill	Long Beach (W/H & Yard)
2,500	18-in Amer Marine	Long Beach (W/H & Yard)
2,900	43-in Expandi	Long Beach (W/H & Yard)
500	Marsh Boom	Long Beach (W/H & Yard)
1,000	43-in Reelpack	Long Beach (W/H & Yard)
7,000	43-in Amer Marine	Long Beach (Berth 35)
2,400	36-in Solid Fill	LA Harbor (Berth 151)
Total 49,770		

Table 4-4

MSRC
Spill Response Resources (Cont'd)

VESSELS		
Quantity	**Equipment Type**	**Location**
1	Shallow Water Barge (non-self propelled/400bbls)	Long Beach (Berth 53&57)
2	18' Small boats	Long Beach (Berth 53&57)
3	Shallow Water Barges (non-self propelled/400bbls)	El Segundo
1	Lori Barge	El Segundo
2	Lori Barges	Long Beach (W/H & Yard)
2	16'-22' Small Boats	Long Beach (W/H & Yard)
4	Shallow Water Pushboats (3-28' Munson, 1-26' Munson)	Long Beach (W/H & Yard)
Total 15		

Table 4-5

Patriot Environmental
Spill Response Resources

OSRO RATING RESPONSE MATRIX	NAME: Patriot Environmental Services				Expires: December 12, 2014					
Hours	0	1	2	4	8	12	18	24	36	60
ACP 4 Pt. Hueneme & Santa Barbara Channel										
Containment Boom (Feet)	600*		2,000		2,000					
Recovery (Bbls)			3,125		23,437					
Storage (Bbls)			425		5,000					
Shoreline Protection **										
ACP 6 LA/LB South - Coastal										
Containment Boom (Feet)	600*		2,000	2,000	4,000					
Recovery (Bbls)			3,125	13,280	23,437	23,437	27,343	31,250	46,875	78,125
Storage (Bbls)			260	520	12,000					
Shoreline Protection **										
ACP 6 LA/LB South - Harbor										
Containment Boom (Feet)	600*		2,000	2,000	4,000					
Recovery (Bbls)			3,125	13,280	23,437	23,437	27,343	31,250	46,875	78,125
Storage (Bbls)			260	520	12,000					
Shoreline Protection **										
ACP 6 Coastal	OPRA (Queens Gate)									
Containment Boom (Feet)	600*		2,000	2,000	4,000					
Recovery (Bbls)			3,125	13,280	23,437	23,437	27,343	31,250	46,875	78,125
Storage (Bbls)			260	520	12,000					
Shoreline Protection **										
ACP 6 San Diego Bay										
Containment Boom (Feet)	600*		2,000	2,000	4,000					
Recovery (Bbls)			3,125	13,280	23,437	23,437	27,343	31,250	46,875	78,125
Storage (Bbls)			260	520	12,000					
Shoreline Protection **										

* 24 hr advanced notice required
** 24 hr advanced notice required for all time frames

Table 4-6

NRC Environmental Services
Pier D, Berth D47
Long Beach, California 90802
Phone: (562) 432-1304
Emergency Response: (800) 33SPILL
Spill Response Resources

Recovery					
Quantity	**Equipment Type**	**Total Derated Capacity (bpd)**	**Date**	**Location**	**Maintenance**
2	Disk Skimmer - Vikoma/Kebab	550	1991	Long Beach	Quarterly
5	Vacuum Truck - Various	3,430	Various	Long Beach	Use or Quarterly
1	Belt Skimmer Vessel - Marco 1C 28'	3,679	1983	Long Beach	Use or Quarterly
1	Aquagard RBS 10	3,420	1998	Long Beach	Use or Quarterly
1	Aquagard RBS 20	6,840	1998	Long Beach	Use or Quarterly
1	ORS WP 130	9,715	1993	Long Beach	Use or Quarterly
1	Vikoma Cascade	5,465	1996	Long Beach	Use or Quarterly
3	Foilex 150	3,168	1999	Long Beach	Use or Quarterly
1	Megator Wier	720	1999	Long Beach	Use or Quarterly
1	Rope Skimmer - Abasco/MKII-6	412	1981	Long Beach	Use or Quarterly
5	Rope Skimmer - OMI/MKI-4ES	240	1982	Long Beach	Use or Quarterly
1	Disk Skimmer - Vikoma/Komara	2,280	1991	Long Beach	Use or Quarterly
3	Wier Skimmer - Douglass/Skimpak	2,160	1996	Long Beach	Use or Quarterly
Total 31					
Containment Boom					
Quantity (ft)	**Size and Type**		**Date**	**Location**	**Maintenance**
8,300	8 x 16 Harbor		2002	Long Beach	Each use or Yearly
15,800	8 x 16 Harbor		1993	Long Beach	Each use or Yearly
8,600	42 Ocean Boom		1996	Long Beach	Each use or Yearly
500	30" Ocean Boom - Vikoma		1993	Long Beach	Each use or Yearly
3,000	6 x 12 Harbor		1996	Long Beach	Each use or Yearly
600	14 x 17 Harbor - Expandi		1990	Long Beach	Each use or Yearly
Total 36,800					
Storage					
Quantity	**Type**	**Total Capacity (bbl)**	**Date**	**Location**	**Maintenance**
1	Vacuum Truck - Ford	70	1983	Long Beach	Weekly
1	Vacuum Trailer - Certified	120	1984	Long Beach	Weekly
2	Vacuum Trailer - Certified	240	1985	Long Beach	Weekly
1	Vacuum Trailer - Petro Steel	120	1980	Long Beach	Weekly
8	Tank Barge - Various	96,330	Various	Long Beach	Weekly
80	Facility Tankage - Various	38,080	1990	Long Beach	Weekly
25	Portable Tank - Various	3,875	1990	Long Beach	Use or Quarterly
Total 118		**138,835**			

Table 4-6

NRC Environmental Services
Pier D, Berth D47
Long Beach, California 90802
Phone: (562) 432-1304
Emergency Response: (800) 33SPILL
Spill Response Resources (Cont'd)

Vessels				
Quantity	**Equipment Type**	**Date**	**Location**	**Maintenance**
1	50' SRV - Alameda	1958	Long Beach	Each use or Monthly
1	28' Utility Vessel - Monark	1975	Long Beach	Each use or Monthly
2	18' Command Vessel - Munson	1990	Long Beach	Each use or Monthly
1	14' Utility Vessel - Roseman	1978	Long Beach	Each use or Monthly
1	16' Utility Vessel - Olympian	1974	Long Beach	Each use or Monthly
5	Skiffs w/ Outboard - Various	Various	Long Beach	Each use or Quarterly
22	Skiffs - Various	Various	Long Beach	Each use or Quarterly
15+	Foss Maritime Tugs - Various	Various	Long Beach	Per ABS
Total 48+				
Communications				
Quantity	**Equipment Type**	**Date**	**Location**	**Maintenance**
30	VHF Radio	2004	Long Beach	Use or Quarterly
30	UHF Radio	2004	Long Beach	Use or Quarterly
2	Base Station	2004	Long Beach	Use or Quarterly
Total 24				
Trained Response Personnel				
Number	**Qualifications**	**Date**	**Location**	**Maintenance**
15	Supervisors	N/A	Long Beach	N/A
30/50	Technicians-Operators (full time/part time)	N/A	Long Beach	N/A
6/300	Laborers (full time/part time)	N/A	Long Beach	N/A
Miscellaneous				
Quantity	**Equipment Type**	**Date**	**Location**	**Maintenance**
3	3" Trash Pump	N/A	Long Beach	Each Use
2	6" Trash Pump	N/A	Long Beach	Each Use
15	3" Diaphram Pump, Wilden, M15	N/A	Long Beach	Each Use
3	1" Diaphram Pump, Wilden, M8	N/A	Long Beach	Each Use
1	Submersible Pump	N/A	Long Beach	Each Use
2	Vac-U-Max, Venturi, Pneumatic	N/A	Long Beach	Use or Annual
2	Generator, 7.5 KW	N/A	Long Beach	Use or Annual
2	Generator, 3.5 KW	N/A	Long Beach	Use or Annual
6	Steam Cleaner	N/A	Long Beach	50 Hours
1	Hydroblaster	N/A	Long Beach	50 Hours
bpd = barrels per day; bbl = barrels.				

4.6. Government Emergency Support Services

Establishing secure operational areas during oil spill response efforts is mandatory for personnel safety, operational efficiency, and financial/legal matters. From the onset of response activities, the response team must work with local law enforcement agencies to ensure critical roadways, access points and coastal areas remain closed to curious onlookers who may not only interfere with response operations but may expose themselves to unsafe or unhealthy conditions. The release site should be evaluated to determine whether or not ground, marine, or air traffic would hamper the spill response. In the event control is required before local, state, or federal agencies arrive, it would be arranged as follows:

- To restrict ground traffic, the California Highway Patrol, sheriff, police or fire department would be called for assistance.
- The USCG would be contacted to provide assistance controlling marine vessels. To the extent possible, vessels and boats would be warned that traversing the release area may be dangerous and may jeopardize response operations.
- Patrolling and control activities would be left to the direction of Coast Guard.
- The Federal Aviation Authority, (FAA), would be contacted if it appears that air traffic control would be required.

The Port Police, Harbor Patrol and U.S. Coast Guard would ensure security by limiting the access of all vessels not involved in the response effort. The Company would assist law enforcement personnel in determining these locations and would provide additional security personnel as needed. The local agencies that could provide support services and their phone numbers are identified in Section 3.1, Table 3.1-3.

4.7. Volunteers

CRC will not normally hire and/or train volunteers for work on an oil spill response incident. Consequently, CRC will refer volunteers to appropriate state and/or local agencies or organizations that are set up to handle volunteers. In addition, CRC will refer volunteers to the California Department of Fish and Game Oiled Wildlife Care Network, which will be managing the collection and rehabilitation of oiled wildlife and typically utilizes volunteers for many of their activities.

4.8 Other Resources

In addition to cooperatives and private contractors, the U.S. Coast Guard and Navy also have considerable stockpiles of equipment available to the private sector but are generally provided only at the request of the Federal OSC and only after traditional sources have been exhausted. The U.S. Coast Guard stores material in Mobile, Alabama, and Hamilton Field, California, while the Navy maintains equipment in Stockton, California, and Norfolk, Virginia. Salvage equipment is also available through the Navy. In addition, the California Conservation Corps can also provide personnel to conduct many shoreline cleanup activities. Each of these sources of equipment and manpower are discussed below.

4.8.1. U.S. Navy Supervisor of Salvage (SUPSALV)

General

The SUPSALV equipment comprises full service spill response capability. A general breakdown of equipment includes:

- Marco Class V skimmer systems, vessel of opportunity skimmers.
- Inflatable boom.
- Lightering pumps, hoses, floating oil storage bladder systems.
- Command vans, rigging vans, communications package, ancillaries.

The SUPSALV equipment is deployed and operated by trained contractor personnel.

Callout Procedure

The Incident Commander will request the U.S. Coast Guard On-Scene Coordinator to mobilize the SUPSALV equipment and personnel.

Deployment

Most SUPSALV equipment will be shipped by truck from Stockton to the Ship Services Yard on Terminal Island in Long Beach. The Marco Class V skimmers will be deployed from this location. The CRC Transportation Coordinator will arrange for truck transport of the other Navy SUPSALV equipment to the locations identified by the CRC Coordinator.

4.8.2. U.S. Coast Guard Pacific Strike Team

The U.S. Coast Guard Pacific Strike Team has been organized, staffed, and equipped to provide rapid response capability to contain and recover marine oil spills. The Strike Team is intended to be used in the absence of local commercially available spill response resources or to complement locally available resources in large spill situations.

The Pacific Strike Team is located at Hamilton Field in Marin County, California, and has the following equipment available:

- Heavy duty offshore Open Water Oil Containment Recovery Systems (OWOCRS) - Each system contains 612 feet of 4-ft. fence-type boom with integral weir recovery devices (requires the use of vessels of opportunity)

- Nearshore skimmers including:
  - Acme 39T weir
  - Marco Class I
  - Vac-U-Max

- Offshore skimmers including:
  - Lockhead Cleansweep 4000

- ADAPTS transfer/lightering systems

The Strike Team is a military organization, with the Pacific Strike Team having approximately 28 officers and enlisted personnel. The crews are cross-trained, and most individuals are capable of deploying and operating all of the Strike Team equipment.

Callout Procedure

The Incident Commander will request mobilization through the U.S. Coast Guard On-Scene Coordinator.

Deployment
The U.S. Coast Guard Pacific Strike Team skimmers and spill response equipment stored in containers will be flown in to the Long Beach Airport by cargo aircraft and moved to the appropriate deployment site.

4.8.3. California Conservation Corps (CCC)

The CCC has been in existence since 1976 and is now a permanent State organization. It has a dual mission: the employment and development of young people and the conservation and enhancement of the State's natural resources. The CCC has established 17 residential centers statewide and a training academy in San Luis Obispo. The local residence center is at Fort MacArther in San Pedro.

Typical emergency activities include sandbagging levees, fighting fires and mud slides, helping eradicate agricultural pests, and providing earthquake cleanup assistance. The CCC indicates that 700 trained people could be provided locally within 2 hours, 1500 within 72 hours.

Callout Procedure
In an oil spill emergency, CCC assistance would be requested through the Department of Fish and Game by the Coast Guard On-Scene Coordinator.

Table 4-8

Specialized Response Equipment and Support Services
Long Beach, California

Name	Location	Telephone	Equipment
Oil Spill Consultants			
Crawford & Company	Atlanta, GA	(404) 256-0830	
O'Brien's Oil Pollution Service	Gretna, LA	(504) 781-0804	
Boat Services			
Antone Sylvester Tug Service, Inc.	Atascadero	(805) 460-0369	Crewboats, tugs, landing craft, launch
NRCES	Long Beach	(562) 432-1304	Spill response/work/flat bottom boats
Crosby and Overton, Inc.	Long Beach	(562) 432-5445 (562) 532-5447	Flat bottom boats and skiffs
Sause Bros.	Long Beach		
Pacific Environmental Corporation		(310) 547-0919	Workboat and boom boat
Wilmington Transportation Company	San Pedro	(310) 832-4292	Towboats
Boom Sources			
Marine Spill Response Corporation (MSRC)	Long Beach		
Crosby and Overton, Inc.	Long Beach	(562) 432-5445 (562) 432-5447	16,000 ft. boom
Kepner Plastics	Torrance	(310) 325-3162	
Petroleum Maintenance	Lomita	(310) 539-8673	
Divers			
Commercial Diving Center	Wilmington	(310) 834-2501	
Oceaneering International, Inc.	Santa Barbara	(805) 963-6507	
Solus Ocean Systems			
Submarine Engineering Associates	Newport Beach	(949) 673-5577	Underwater photography, closed circuit television
Marine Surveyors			
Captain M.L. McGee	Wilmington	(310) 518-1825	
J.A. Jacobsen and Associates, Inc.	Wilmington	(310) 834-4553	
Bud Tretter Marine Surveyors	Wilmington	(310) 834-3413	
Oceanographers			
Aqua Contractors & Oceanographics	Redondo Beach	(310) 379-8852	
Tetra-Tech, Inc.	Pasadena	(626) 351-4664	

Table 4-8

Specialized Response Equipment and Support Services
Long Beach, California (Cont'd)

Name	Location	Telephone	Equipment
Skimmers and Barges			
Crosby and Overton, Inc.	Long Beach	(562) 432-5445 (562) 432-5447	Self-propelled and portable skimmers
John L. Meek Construction Co., Inc.	Wilmington	(310) 830-6323 (310) 833-6850	Crane on barge, work barges, work boats
Manson-Pacific	Long Beach	(562) 432-6918	Barge cranes, hopper barges
Oceaneering International, Inc.	Santa Barbara	(310) 834-2501 (805) 963-6507	Offshore vessels with cranes
Riedel International	Terminal Island	(503) 285-9111	Barge cranes, hopper barges
Syd Carpenter Marine	Wilmington		Self-propelled barges
Beach Cleanup Equipment, Services, and Supplies			
Baker Tanks, Inc.		(310) 436-6233	Holding tanks
Bischoff Sheet Metal		(310) 498-6563	Metal supplies
Connolly-Pacific Co.		(562) 437-2831	Barge ramp, piling, pier repair
Dorado Enterprises, Inc.		(714) 965-1960	General construction, maintenance, and repair
Joe's Sweeping Company		(310) 868-9998	Sweeping services
Maness Environmental Services, Inc.			Environmental services
Moffatt and Nichol Engineering		(562) 590-6500	Engineering services
Pacific Environmental Management Corp.		(310) 324-2445	Vacuum truck services
Rain For Rent		(909) 653-2171	Tanks, piping
Riedel International		(503) 285-9111	Marine transportation
Western Waste Industries		(310) 327-2522	Waste disposal site
Golden State Special. Trans., Inc.		(562) 941-1924	Trucking services
Nelson and Belding Contracting Corp.	Gardena	(310) 321-6242 (310) 327-2043	Highway contractor
Guy F. Atkinson Co.	Long Beach	(562) 424-8139	Highway contractor
Sully-Miller Contracting Corp.	Long Beach	(562) 531-3550	Highway contractor
Allied Packing and Rubber Co.		(562) 435-2411	Plastic sheeting
American Protective Services, Inc.	Anaheim	(714) 758-9000	Security service
Budget Rent-A-Truck	Los Angeles	(310) 670-1744	Four-wheel drive vehicles and pickup truck rentals
Chandler's Palos Verdes Sand and Gravel Company	East Rolling Hills Estates	(310) 326-1212	Sand trucks
Crosby and Overton, Inc.	Long Beach	(562) 432-5445 (562) 432-5447	Heavy duty cleaning services, vacuum trucks
Dickson Safety		(310) 870-5962	Boots, slicker suits
Hertz Equipment Rental Corp.	Torrance	(310) 637-7368	Trucks, forklifts, compressors, light towers
J.A. Thomas Crane & Trucking Co.	Huntington Beach	(714) 556-1834	Heavy equipment rental

Table 4-8

Specialized Response Equipment and Support Services
Long Beach, California (Cont'd)

Name	Location	Telephone	Equipment
Beach Cleanup Equipment, Services, and Supplies (Cont'd)			
Kleen-Sweep	Torrance	(310) 328-8150	Street sweepers
Lovco Construction, Inc.	Long Beach	(562) 595-1601	Earth moving equipment
M.L. Bashaw, Inc.	Huntington Beach	(310) 598-9295	Earth moving equipment
National Plant Services, Inc.	Long Beach	(562) 437-3574	Heavy duty cleaning
American Glove & Safety		(562) 576-2668	Personal Protective Equipment
Brawny Plastics West		(714) 546-9790	Clear 55-gal. plastic bags
R.E. Coulter Crane & Rigging, Inc.	Long Beach	(562) 595-4555	Cranes and earth moving, heavy construction
Total Equipment Rental, Inc.	Long Beach	(562) 595-6555	Light towers
U.S. Rentals	Long Beach	(562) 422-1283	
Zorbite Corporation	Redondo Beach		Adsorbent for oil spilled
Mobile Field Offices			
Angelus Mobileasing Company, Inc.	South El Monte	(323) 686-0481	
Mobile Modular	Mira Loma	(714) 735-8600	
Chemical Toilets			
A-1 Lomita Sanitation Rentals	Torrance	(310) 326-1910	
BCI		(310) 630-1707	
United Nottingham	El Monte	(323) 442-7775	
Aerial and Commercial Photographers			
Aerial Eye Inc.	Irvine	(949) 250-4136	
Air Views	Irvine	(949) 261-2300	
Peter and Paul's Photography	Redondo Beach	(310) 378-5444	
Photometric Surveys	Newport Beach	(714) 979-9941	
Laboratory Services			
Advance Technologies		(562) 989-4045	
Chemical Research Labs	Cerritos	(310) 924-0780	
Montgomery Laboratories	Pasadena	(213) 681-4255	
Oilwell Research	Long Beach	(562) 436-4252	
Wholesale Sandwiches			
Dar-San Commissary	Cerritos	(310) 926-0732	
John W. Miller Sandwich Company	Long Beach	(562) 437-1207	
MCI	Compton	(310) 537-4100	

Table 4-8

Specialized Response Equipment and Support Services
Long Beach, California (Cont'd)

Name	Location	Telephone	Equipment
Helicopters			
Aspen Helicopters, Inc.	Oxnard	(805) 985-5416	
Island Express Helicopters	Long Beach	(562) 436-2012	
Long Beach Police Helicopter	Long Beach	(562) 570-7237 (562) 435-6711	
Long Beach Helicopter	Long Beach	(562) 496-1166 (714) 995-4342	
Jet Copters, Inc.	Van Nuys	(818) 902-0800	
Buses			
Embree Buses, Inc.	Pasadena	(213) 795-5871	
Laidlaw Transit, Inc.	Van Nuys	(818) 781-2113	
Long Beach Transit	Long Beach	(562) 591-8753	
Mark IV Charter Lines	Gardena	(213) 321-1221	
Stardust Tours	Cypress	(714) 761-0179	
Hotels			
West Coast Hotel	Long Beach	(562) 435-7676	
Seaport Marina Hotel	Long Beach	(562) 434-8451	
Best Western of Long Beach	Long Beach	(562) 599-5555	
Holiday Inn Long Beach Airport	Long Beach	(562) 597-4401	
Wildlife Hazing Equipment			
Clean Seas	Santa Barbara	(805) 684-3838	Acoustic devices
Sutton Ag Enterprises	Salinas	(408) 422-9693	Pyrotechniques

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID #	A1. CERS ID	A2. DATE OF PLAN PREPARATION/REVISION
1.	10446451	2/26/2019

3. BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)*: Huntington Beach Field - SoCal Holding, LLC

103. BUSINESS SITE ADDRESS: 20101 Goldenwest St.

104. BUSINESS SITE CITY		105. ZIP CODE
Huntington Beach	CA	90648

A3. TYPE OF BUSINESS (e.g., Painting Contractor)	A4. INCIDENTAL OPERATIONS (e.g., Fleet Maintenance)
Crude Oil and Gas Production	Crude Oil and Gas Production

A5. THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING: (Check all that apply)

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

B1. INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Check all that apply)

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator (or his/her designee when the Emergency Coordinator is on call) shall:

1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
2. Notify appropriate local authorities (i.e., call 9-1-1).
3. Notify the California Emergency Management Agency at (800) 852-7550.

Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall notify the California Department of Toxic Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

C1. INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR VIA: (Check all that apply)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☒ 5. ALARM SYSTEM; ☒ 6. PORTABLE RADIO

C2. NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY: (Check all that apply)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

EMERGENCY RESPONSE PHONE NUMBERS:

AMBULANCE, FIRE, POLICE AND CHP	9-1-1
CALIFORNIA EMERGENCY MANAGEMENT AGENCY (CAL/EMA)	(800) 852-7550
NATIONAL RESPONSE CENTER (NRC)	(800) 424-8802
POISON CONTROL CENTER	(800) 222-1222
LOCAL UNIFIED PROGRAM AGENCY (UPA/CUPA)	(714) 573-6250 C3.
C4. OTHER (Specify):	C5.

C6. NEAREST MEDICAL FACILITY / HOSPITAL NAME: Huntington Beach Hospital — (714) 842-1473 C7.

AGENCY NOTIFICATION PHONE NUMBERS:

CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)	(916) 255-3545
REGIONAL WATER QUALITY CONTROL BOARD	(951) 781-6288 C8.
U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)	(800) 300-2193
CALIFORNIA DEPT OF FISH AND GAME (DFG)	(916) 358-2900
U.S. COAST GUARD	(202) 267-2180
CAL/OSHA	(916) 263-2800
STATE FIRE MARSHAL	(916) 445-8200
C9. OTHER (Specify): SCAQMD	(909) 396-2000 C10.
C11. OTHER (Specify): DOGGR	(714) 816-6847 C12

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, releases, fires or explosions; and preventing and mitigating associated harm to persons, property, and the environment.) D1

- ☒ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☒ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);
- ☒ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);
- ☒ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;
- ☒ 5. BUILT-IN BERM IN WORK / STORAGE AREA;
- ☒ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☒ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);
- ☒ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☒ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☒ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;
- ☒ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;
- ☒ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AREAS;
- ☒ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;
- ☐ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;
- ☒ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☒ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE;
- ☒ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;
- ☐ 21. OTHER (Specify): D2

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY): E1

- ☐ 1. BELLS;
- ☒ 2. HORNS/SIRENS;
- ☒ 3. VERBAL (I.E., SHOUTING);
- ☒ 4. OTHER (Specify) Cell Phone E2

THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.) E3.

Primary onshore assembly area: Flagpole near main office buildings

Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation.

☒ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED E4.

Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently posted throughout the facility in locations where it will be visible to employees and visitors

F. ARRANGEMENTS FOR EMERGENCY SERVICES

Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made as appropriate for your facility. You may determine that such arrangements are not necessary.

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following) F1.

- ☐ 1. HAVE BEEN DETERMINED NOT NECESSARY; *or*
- ☒ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify): F2

Onshore: Patriot Environmental has been contracted to proved 24-hour emergency response cleanup services for the onshore facility. Patriot's phone number is (800) 624-9136.

Offshore: MSRC has been contracted to provide 24-hour emergency response cleanup services for the offshore facility. MSRC's phone number is (800) 645-7745.

G. EMERGENCY EQUIPMENT

Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g., ☒ CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.]

TYPE	EQUIPMENT AVAILABLE G1	LOCATION	CAPABILITY *(If applicable)*
Safety and First Aid	1. ☒ CHEMICAL PROTECTIVE SUITS, APRONS, OR VESTS	G2 Warehouse	G3 Available to employees as needed
	2. ☒ CHEMICAL PROTECTIVE GLOVES	G4 Warehouse, each person	G5 Available to employees as needed
	3. ☒ CHEMICAL PROTECTIVE BOOTS	G6 Warehouse	G7 Available to employees as needed
	4. ☒ SAFETY GLASSES / GOGGLES / SHIELDS	G8 Each person	G9 All employees wear protective eyewear
	5. ☒ HARD HATS	G10 Each person	G11 All employees wear hard hats
	6. ☐ CARTRIDGE RESPIRATORS	G12	G13
	7. ☒ SELF-CONTAINED BREATHING APPARATUS (SCBA)	G14 Tank Farm Office/Emmy	G15 Units available for specific tasks
	8. ☒ FIRST AID KITS / STATIONS	G16 Warehouse, vehicles, office	G17 All vehicles carry first aid kits
	9. ☒ PLUMBED EYEWASH FOUNTAIN / SHOWER	G18 Various field locations	G19
	10. ☒ PORTABLE EYEWASH KITS	G20 Various field locations and vehicles	G21 All vehicles carry eye wash bottles
	11. ☒ OTHER	G22 All employees wear H2S or 4-gas monitors	G23
	12. ☒ OTHER	G24 All employees wear fire resistant clothing (FRC)	G25
Fire Fighting	13. ☒ PORTABLE FIRE EXTINGUISHERS	G26 Vehicles	G27 20 and/or 30 lbs. units in vehicles
	14. ☒ FIXED FIRE SYSTEMS / SPRINKLERS / FIRE HOSES	G28 Gas Plant (DCU)	G29 Deluge system for gas plant
	15. ☐ FIRE ALARM BOXES OR STATIONS	G30	G31
	16. ☐ OTHER	G32	G33
Spill Control and Clean-Up	17. ☐ ALL-IN-ONE SPILL KIT	G34	G35
	18. ☒ ABSORBENT MATERIAL	G36 Warehouse, field vehicles	G37
	19. ☐ CONTAINER FOR USED ABSORBENT	G38	G39
	20. ☒ BERMING / DIKING EQUIPMENT	G40 Warehouse, Storage	G41 Secondary containment at all storage tanks
	21. ☒ BROOM	G42 Warehouse	G43 several
	22. ☒ SHOVEL	G44 Warehouse	G45 10+ available
	23. ☐ SHOP VAC	G46	G47
	24. ☐ EXHAUST HOOD	G48	G49
	25. ☒ EMERGENCY SUMP / HOLDING TANK	G50 Tank Farm 1 Highlands	G51
	26. ☐ CHEMICAL NEUTRALIZERS	G52	G53
	27. ☐ GAS CYLINDER LEAK REPAIR KIT	G54	G55
	28. ☐ SPILL OVERPACK DRUMS	G56	G57
	29. ☐ OTHER	G58	G59
Communi-cations and Alarm Systems	30. ☒ TELEPHONES (Includes cellular)	G60 Each person	G61 All employees have cell phones
	31. ☐ INTERCOM / PA SYSTEM	G62	G63
	32. ☒ PORTABLE RADIOS	G64 Each person	G65 All employees have cell phones and/or radios
	33. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT	G66	G67
Other	34. ☐ OTHER	G68	G69
	35. ☐ OTHER	G70	G71

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases / spills due to earthquake-related motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS: (Check all that apply) H1.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)
☒ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA	crude oil storage tanks H2.
☒ 2. PROCESS LINES / PIPING	H3.
☐ 3. LABORATORY	H4.
☐ 4. WASTE TREATMENT AREA	H5.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS: (Check all that apply) H6.	LOCATIONS
☒ 1. SHELVES, CABINETS AND RACKS	H7.
☒ 2. TANKS (EMERGENCY SHUTOFF)	H8.
☒ 3. PORTABLE GAS CYLINDERS	H9.
☒ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES	shutoff valves H10.
☒ 5. SPRINKLER SYSTEMS	H11.
☒ 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)	pressure vessel H12.

I. EMPLOYEE TRAINING

Explanation of Requirement: Employee training is required for all employees handling hazardous materials and hazardous wastes in day-to-day or clean-up operations including volunteers and/or contractors. Training must be:

- Provided within 6 months for new hires;
- Amended as necessary prior to change in process or work assignment;
- Given upon modification to the Emergency Response / Contingency Plan, and updated/refreshed annually for all employees.

Required content includes all of the following:

- Material Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Fire hazards of materials / processes;
- Conditions likely to worsen emergencies;
- Coordination of emergency response;
- Notification procedures;
- Applicable laws and regulations;
- Communication and alarm systems;
- Personal protective equipment;
- Use of emergency response equipment (e.g. Fire extinguishers, respirators, etc.);
- Decontamination procedures;
- Evacuation procedures;
- Control and containment procedures;
- UST monitoring system equipment and procedures (if applicable).

INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all that apply) I1.

☐ 1. FORMAL CLASSROOM; ☒ 2. VIDEOS; ☒ 3. SAFETY / TAILGATE MEETINGS;

☒ 4. STUDY GUIDES / MANUALS (Specify): CRC HSE Manual I2.

☒ 5. OTHER (Specify): All employees participate in online safety coursework (viaTrainingMine), contractors undergo orientation upon hire I3.

☐ 6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES

Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste generators (i.e., who generate more than 270 gallons/1,000 kilograms of hazardous waste per month) must retain written documentation of employee hazardous waste management training sessions which includes:

- A written outline/agenda of the type and amount of both introductory and continuing training that will be given to persons filling each job position having responsibility for the management of hazardous waste (e.g., labeling, manifesting, compliance with accumulation time limits, etc.).
- The name, job title, and date of training for each hazardous waste management training session given to an employee filling such a job position; and
- A written job description for each of the above job positions that describes job duties and the skills, education, or other qualifications required of personnel assigned to the position.
- Current employee training records must be retained until closure of the facility.
- Former employee training records must be retained at least three years after termination of employment.

J. LIST OF ATTACHMENTS

(Check one of the following) J1.

☒ 1. NO ATTACHMENTS ARE REQUIRED; *or*

☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

K. SIGNATURE / CERTIFICATION

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

SIGNATURE OF OWNER/OPERATOR	DATE SIGNED K1.
	2/26/2019
NAME OF SIGNER (print) K2.	TITLE OF SIGNER K3.
Kristy Monji	Environmental Specialist, HSE

Huntington Beach/Platform Emmy (CERSID: 10446451)

Facility Information **Submitted Feb 28, 2018**

Submitted on 2/28/2018 6:15:28 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Submitted Feb 28, 2018**

Submitted on 2/28/2018 6:15:28 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Hazardous Material Inventory (56)
- Site Map (Official Use Only)
  - *Platform Emmy 1 (Official Use Only)* (Adobe PDF, 154KB)
  - *Platform Emmy 2 (Official Use Only)* (Adobe PDF, 526KB)
  - *Platform Emmy 3 (Official Use Only)* (Adobe PDF, 89KB)
  - *Platform Emmy 4 (Official Use Only)* (Adobe PDF, 94KB)
  - *Fort Apache (Official Use Only)* (Adobe PDF, 200KB)
  - *Highlands Figure 6 (Official Use Only)* (Adobe PDF, 268KB)
  - *Highlands Figure 7 (Official Use Only)* (Adobe PDF, 266KB)
  - *Highlands Figure 8 (Official Use Only)* (Adobe PDF, 267KB)
  - *Highlands Figure 9 (Official Use Only)* (Adobe PDF, 266KB)
  - *Highlands Emergency Site Plan(Official Use Only)* (Adobe PDF, 212KB)
  - *State Lease (Official Use Only)* (Adobe PDF, 266KB)
  - *Bolsa Chica North (Official Use Only)* (Adobe PDF, 387KB)
  - *Bolsa Chica South(Official Use Only)* (Adobe PDF, 365KB)

Emergency Response and Training Plans **Submitted Feb 28, 2018**

Submitted on 2/28/2018 6:15:28 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 118KB)
- Employee Training Plan
  - *Employee Training Plan* (Adobe PDF, 90KB)

Aboveground Petroleum Storage Act **Submitted Feb 28, 2018**

Submitted on 2/28/2018 6:15:28 PM by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

- Aboveground Petroleum Storage Act Documentation
  - Provided In Submital Element: Hazardous Materials Inventory

California Environmental Reporting System (CERS) — Business Activities

Site Identification

Huntington Beach/Platform Emmy
20101 Goldenwest St
Huntington Beach, CA 92648
County
Orange

CERS ID
10446451
EPA ID Number
CAD981443807

Submittal Status

Submitted on 2/28/2018 by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	Yes

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	Yes
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

Huntington Beach/Platform Emmy
20101 Goldenwest St
Huntington Beach, CA 92648

CERS ID
10446451

Submittal Status

Submitted on 2/28/2018 by *Denise Larderuccio* of California Resources Production Corp (Long Beach)

Identification

Joe Martinez

Operator Phone	Business Phone	Business Fax
(714) 969-3221	(562) 693-0781	

Beginning Date	Ending Date	
Dun & Bradstreet	**SIC Code**	**Primary NAICS**
	1311	

Facility/Site Mailing Address

111 W. OCEAN BLVD., SUITE 800
LONG BEACH, CA 90802

Primary Emergency Contact

Huntington Beach Tank Farm
Title
Huntington Beach Tank Farm

Business Phone	24-Hour Phone	Pager Number
(714) 969-3201	(562) 624-3452	

Owner

California Resources Production Corporation
(562) 624-3400
111 W OCEAN BLVD, SUITE 800
LONG BEACH, CA 90802

Secondary Emergency Contact

Joe Martinez
Title
Facility OperationsSupervisor

Business Phone	24-Hour Phone	Pager Number
(714) 969-3221	(562) 693-0781	

Billing Contact

California Resources Production Corporation
(562) 624-3400 Kristy.Monji@crc.com
111 W OCEAN BLVD., Suite 800
LONG BEACH, CA 90802

Environmental Contact

Kristy Monji
(562) 505-8657 Kristy.Monji@crc.com
111 W OCEAN BLVD., SUITE 800
LONG BEACH, CA 90802

Name of Signer	Signer Title	Document Preparer
Kristy Monji	Environmental Specialist	Mario Salguero

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees

Facility ID

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **Huntington Beach/Platform Emmy**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease**

CERS ID **10446451**
Facility ID
Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Techni-Break 8424 CAS No Map: 1	**Gallons** State: Liquid Type: Mixture	**2120** Storage Container: Tote Bin Days on Site: 365	**300**	2120 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity				
	WCW7918 CAS No Map: 2	**Gallons** State: Liquid Type: Mixture	**570** Storage Container: Tote Bin Days on Site: 365	**220**	570 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	Phasetreat 6365 CAS No Map: 3	**Gallons** State: Liquid Type: Mixture	**500** Storage Container: Tote Bin Days on Site: 365	**200**	350 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	Technicheck 3658 CAS No Map: 4	**Gallons** State: Liquid Type: Mixture	**700** Storage Container: Tote Bin Days on Site: 365	**200**	700 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | **Highlands/State Lease** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SCW4056 CAS No Map: 5	**Gallons** State: Liquid Type: Mixture	**3320** Storage Container: Tote Bin Days on Site: 365	**370**	3320 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				
	Diesel CAS No Map: 6	**Gallons** State: Liquid Type: Mixture	**300** Storage Container: Aboveground Tank Days on Site: 365	**300**	300 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard				
	SRW30113 CAS No Map: 7	**Gallons** State: Liquid Type: Mixture	**1000** Storage Container: Tote Bin Days on Site: 365	**500**	1000 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation				
	Activated Carbon CAS No 7440-44-0 Map: 8	**Pounds** State: Solid Type: Pure	**12000** Storage Container: Aboveground Tank, Other Days on Site: 365	**12000**	12000 Pressue: Ambient Temperature: Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **Huntington Beach/Platform Emmy**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease**

CERS ID **10446451**
Facility ID
Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	HSW700 CAS No Map: 9	**Gallons** State: Liquid Type: Mixture	**1350** Storage Container: Tote Bin Days on Site: 365	**500**	1350 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	DMO8298X CAS No Map: 10	**Gallons** State: Liquid Type: Mixture	**135** Storage Container: Tote Bin Days on Site: 365	**135**	135 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	RBW6560 Water Clarifier CAS No Map: 11	**Gallons** State: Liquid Type: Mixture	**700** Storage Container: Tote Bin Days on Site: 365	**350**	700 Pressue: Ambient Temperature: Ambient	Waste Code					
	Engine Oil CAS No Map: 12	**Gallons** State: Liquid Type: Mixture	**3610** Storage Container: Tote Bin Days on Site: 365	**350**	3610 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Respiratory Skin Sensitization				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **Huntington Beach/Platform Emmy**
20101 Goldenwest St, Huntington Beach 92648

Chemical Location **Highlands/State Lease**

CERS ID **10446451**
Facility ID
Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	PAW4 Surfactant CAS No Map: 13	**Gallons** State: Liquid Type: Mixture	**200** Storage Container: Tote Bin Days on Site: 365	**200**	200 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Specific Target Organ Toxicity - Health Aspiration Hazard				
	AP Solvent CAS No Map: 15	**Gallons** State: Liquid Type: Pure	**600** Storage Container: Tote Bin Days on Site: 365	**300**	300 Pressue: Ambient Temperature: Ambient	Waste Code					
	DMO8194 CAS No Map: 17	**Gallons** State: Liquid Type: Mixture	**150** Storage Container: Tote Bin Days on Site: 365	**150**	150 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	Methane CAS No 74-82-8 Map: 19	**Cu. Feet** State: Gas Type: Pure	**440** Storage Container: Cylinder Days on Site: 365	**220**	440 Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure				
	Nitrous Oxide (NOS) CAS No Map: 20	**Cu. Feet** State: Gas Type: Mixture	**440** Storage Container: Cylinder Days on Site: 365	**220**	440 Pressue: > Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp** | Chemical Location | CERS ID **10446451**

Facility Name **Huntington Beach/Platform Emmy** | **Highlands/State Lease** | Facility ID

20101 Goldenwest St, Huntington Beach 92648 | Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Floctreat 7932A CAS No Map: 21	**Gallons** State: Liquid Type: Mixture	**500** Storage Container: Tote Bin Days on Site: 365	**500**	500 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Specific Target Organ Toxicity				
	DMO2030 CAS No Map: 22	**Gallons** State: Liquid Type: Mixture	**165** Storage Container: Tote Bin Days on Site: 365	**165**	165 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	Corrtreat 7182 CAS No Map: 23	**Gallons** State: Liquid Type: Mixture	**1275** Storage Container: Tote Bin Days on Site: 365	**220**	640 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **California Resources Production Corp**
Facility Name **Huntington Beach/Platform Emmy**
20101 Goldenwest St, Huntington Beach 92648

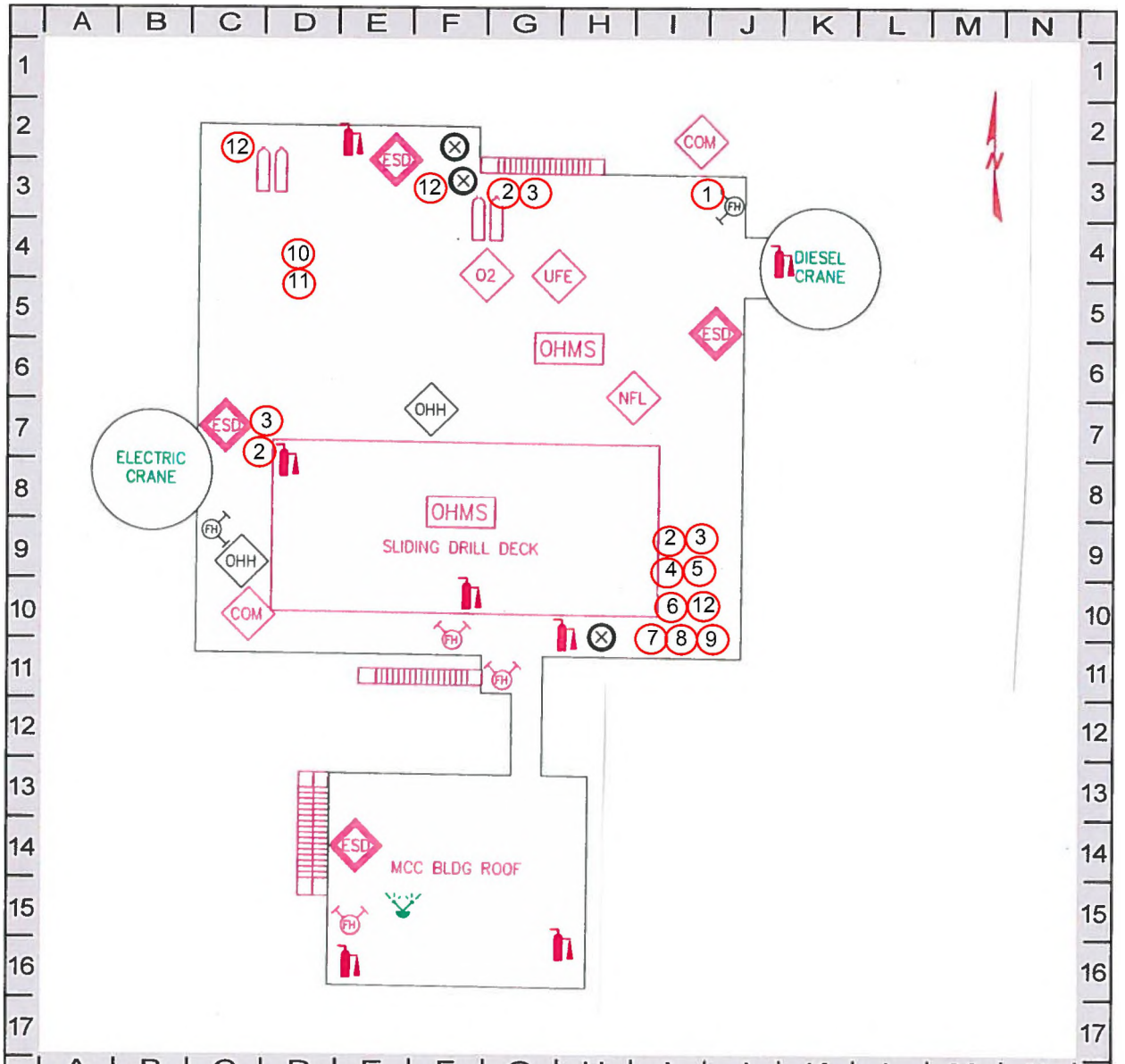
Chemical Location **Highlands/State Lease - CSA, 1**

CERS ID **10446451**
Facility ID
Status **Submitted** on 2/28/2018 6:15 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	SCAV Treat 1119 CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**270** Storage Container: Tote Bin Days on Site: 180	**135**	270 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity				
	Waxtreat 3635 CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**135** Storage Container: Tote Bin Days on Site: 180	**135**	135 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Respiratory Skin Sensitization - Health Serious Eye Damage Eye Irritation				
	OXW5102 Oxidizer CAS No Map: 18	**Gallons** State: Liquid Type: Mixture	**500** Storage Container: Tote Bin Days on Site: 180	**500**	500 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Oxidizer - Physical Corrosive To Metal - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation				

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE
2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 1



BUSINESS NAME	DATE
Platform Emmy Drill Deck	March 2016

ADDRESS	CITY	ZIP
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

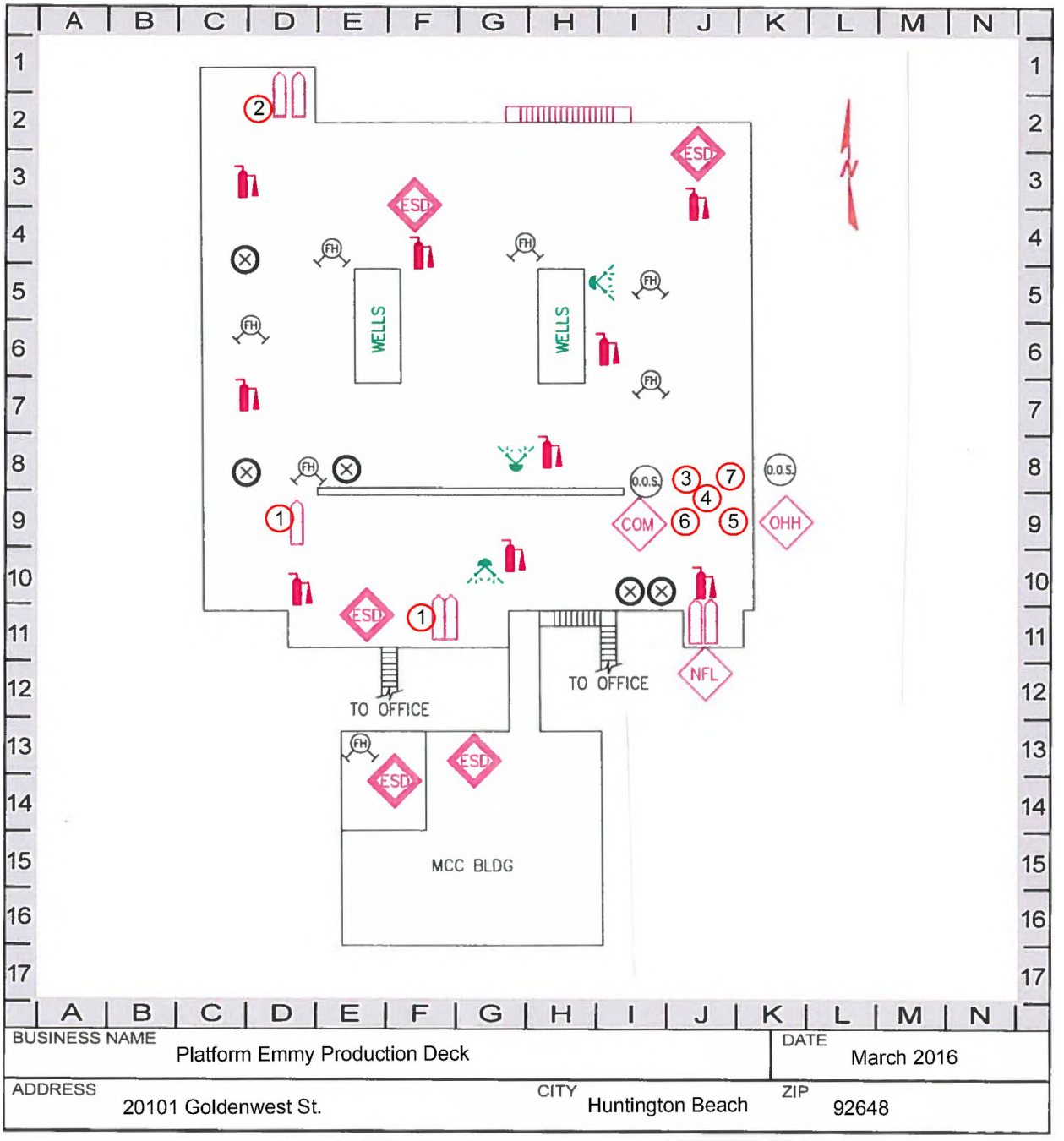
Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory	Map #	Chemical Name	Avg Inventory
1	Diesel	895 gal	7	SCW4056	345 gal
2	Oxygen	9 @ 300 scf	8	WCW7918	345 gal
3	Acetylene	6 @ 250 scf	9	Nitrogen	300 scf
4	CRW3658	345 gal	10	Oxygen (liquid)	80 gal
5	CGO49	345 gal	11	Propane	2 @ 250 scf
6	CLW3075	100 gal	12	Tellus Oil 46	55 gal

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE

2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 2



BUSINESS NAME	DATE
Platform Emmy Production Deck	March 2016

ADDRESS	CITY	ZIP
20101 Goldenwest St.	Huntington Beach	92648

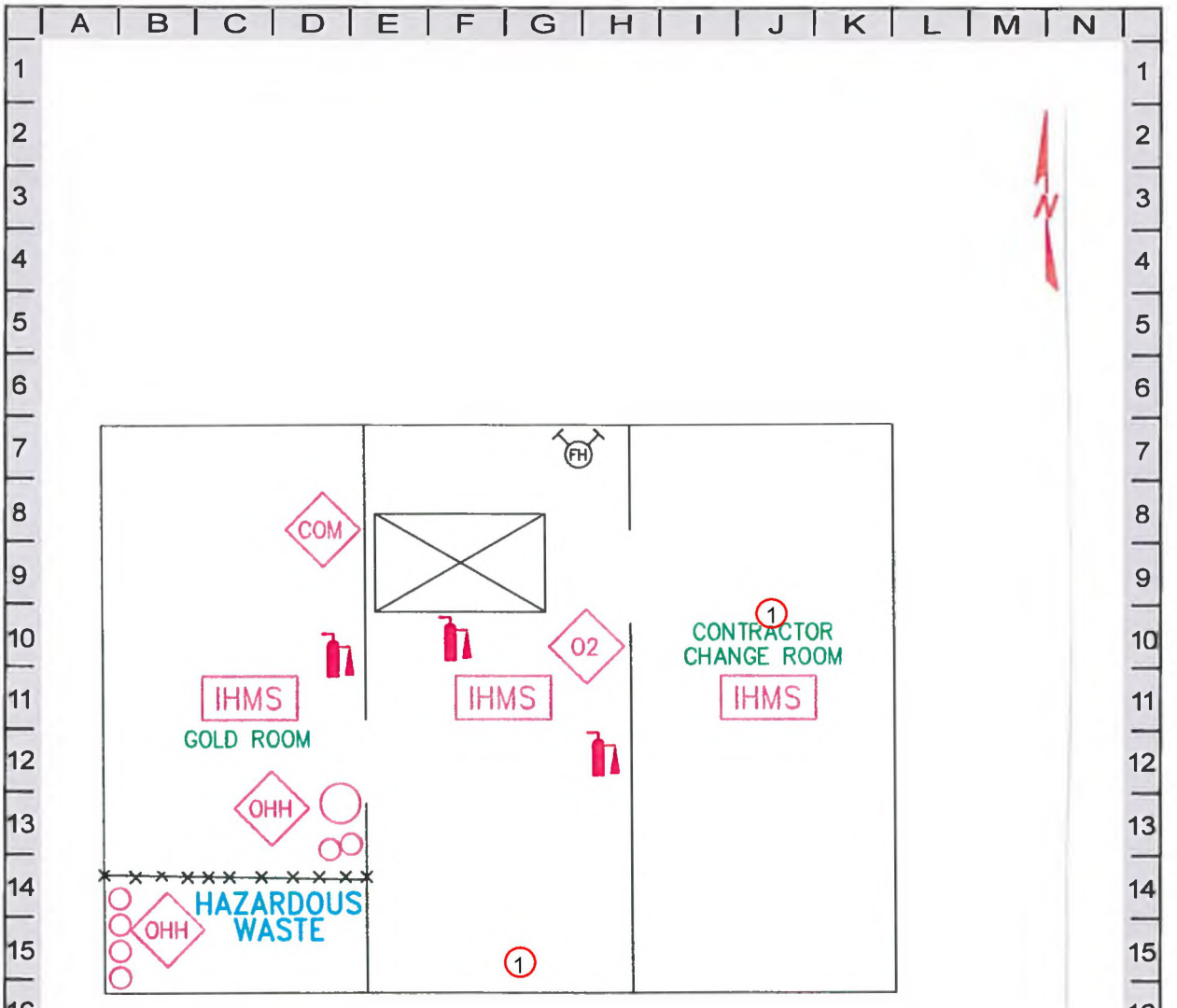
LEGEND

Define items not covered in the list provided. (Attach additional sheet if needed.)

Map #	Chemical Name	Avg Inventory
1	Nitrogen	3 @ 300 scf
2	Carbon Dioxide	4 @ 300 scf
3	WCW7918	345 gal
4	CRW3658	345 gal
5	Corrtreat 7219	115 gal
6	SCW4056	345 gal
7	RBW6000X	110 gal

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE
2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 3



BUSINESS NAME	Platform Emmy Mezzanine Deck	DATE	March 2016
ADDRESS	20101 Goldenwest St.	CITY Huntington Beach	ZIP 92648

LEGEND

Define items not covered in the list provided. (Attach additional sheet if needed.)

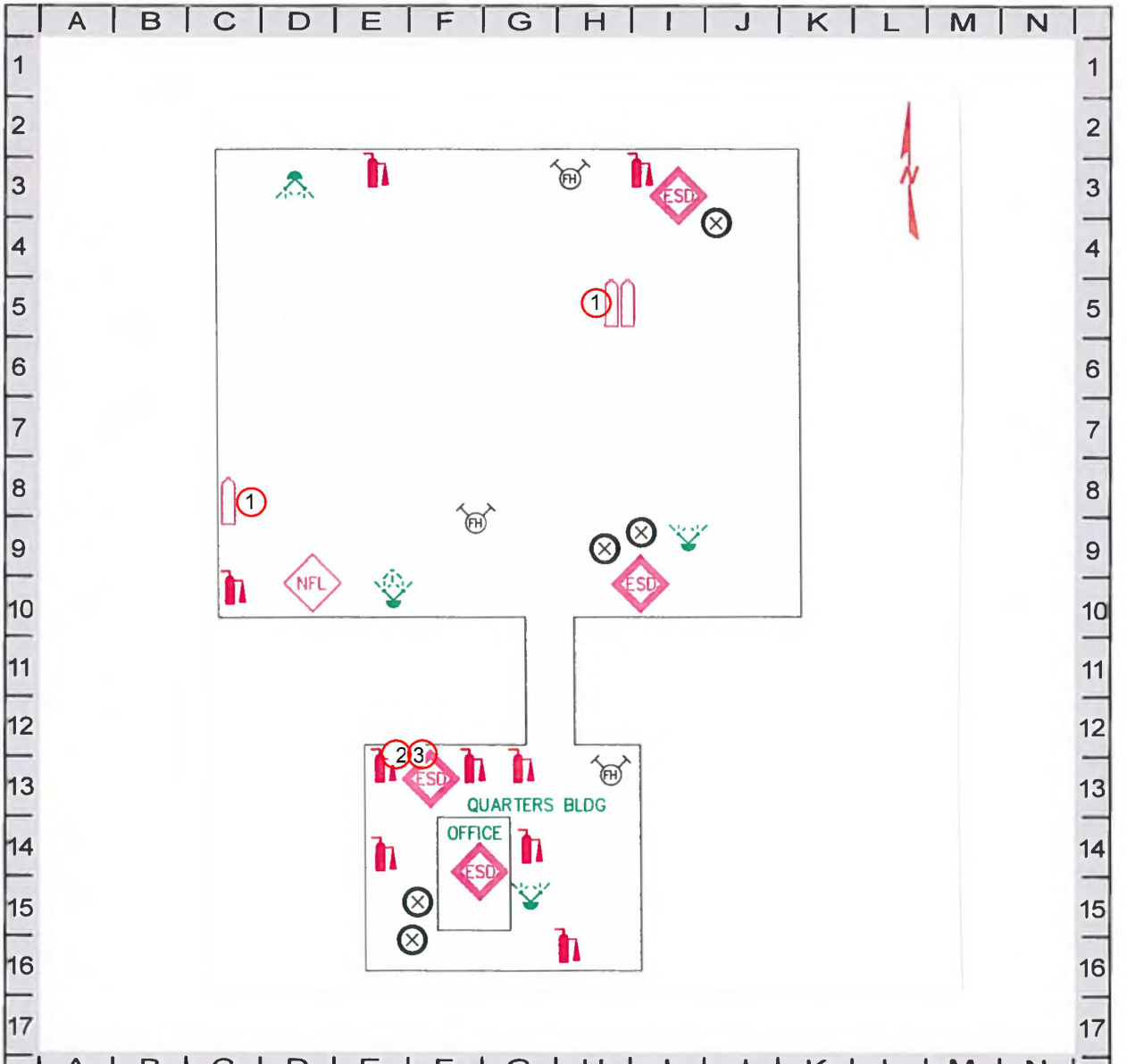
Map #	Chemical Name	Avg Inventory
1	R-410A	328 lbs

Site map # _____

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE

2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 4



BUSINESS NAME		DATE
Platform Emmy Lower Deck		March 2016
ADDRESS	**CITY**	**ZIP**
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

Define items not covered in the list provided. (Attach additional sheet if needed.)

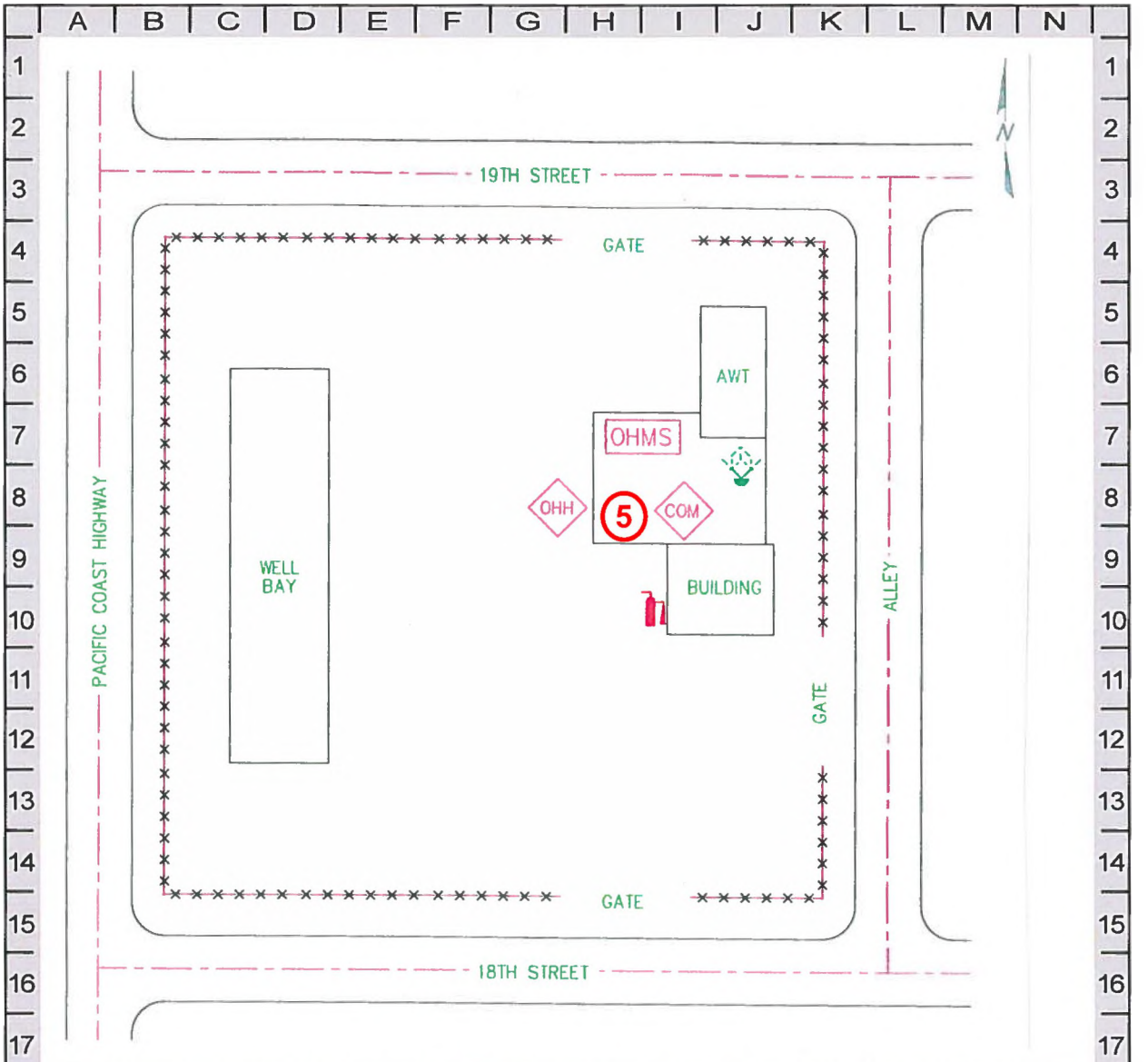
Map #	Chemical Name	Avg Inventory
1	Nitrogen	3 @ 304 scf
2	Oxygen	364 scf
3	Acetylene	221 scf

Site map # _____

HUNTINGTON BEACH FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE OFFICE

2000 MAIN STREET • HUNTINGTON BEACH, CA 92648
(714) 536-5676 • FAX (714) 374-1551

Hazardous Materials Facility Site Map 5

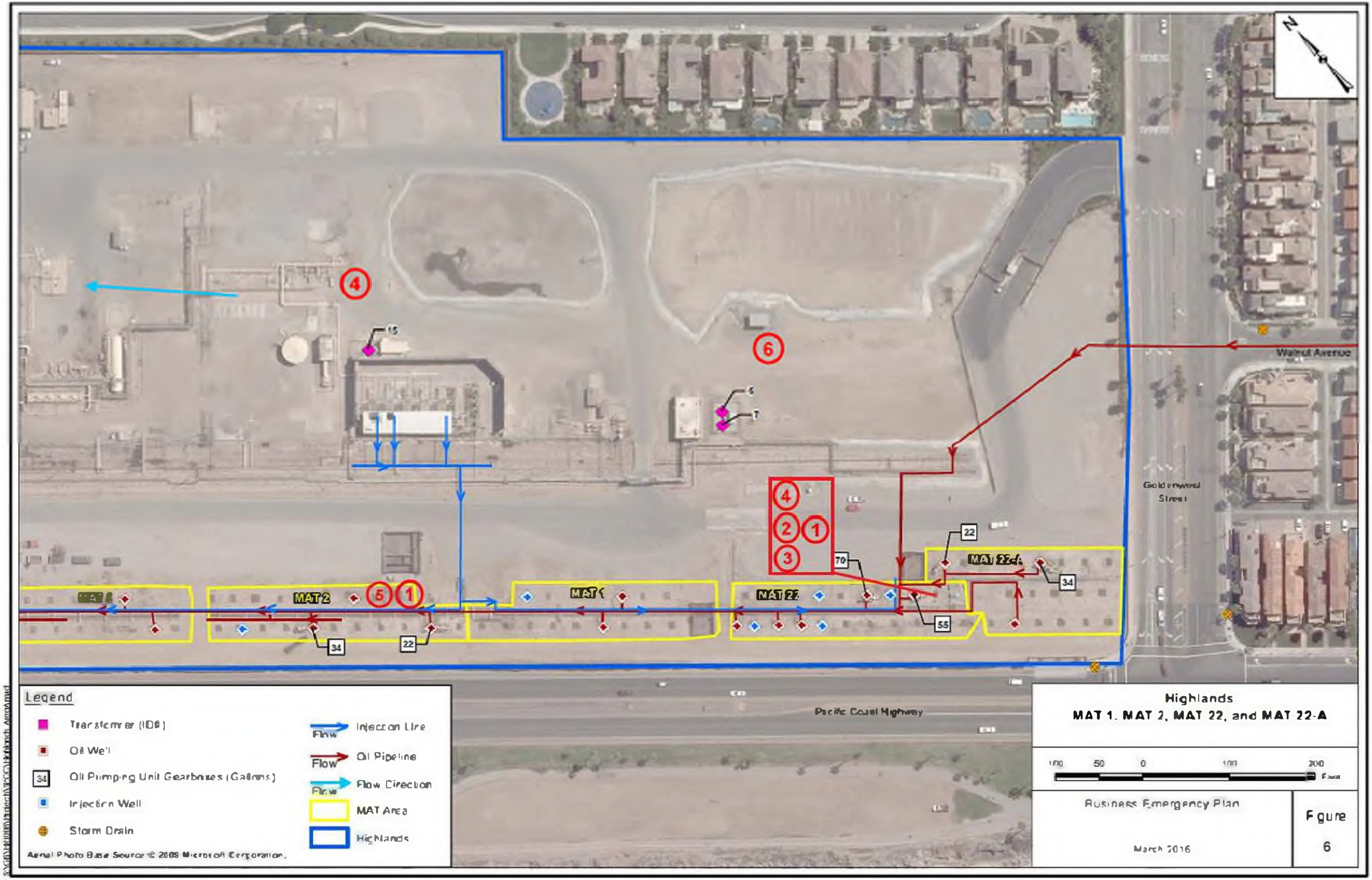


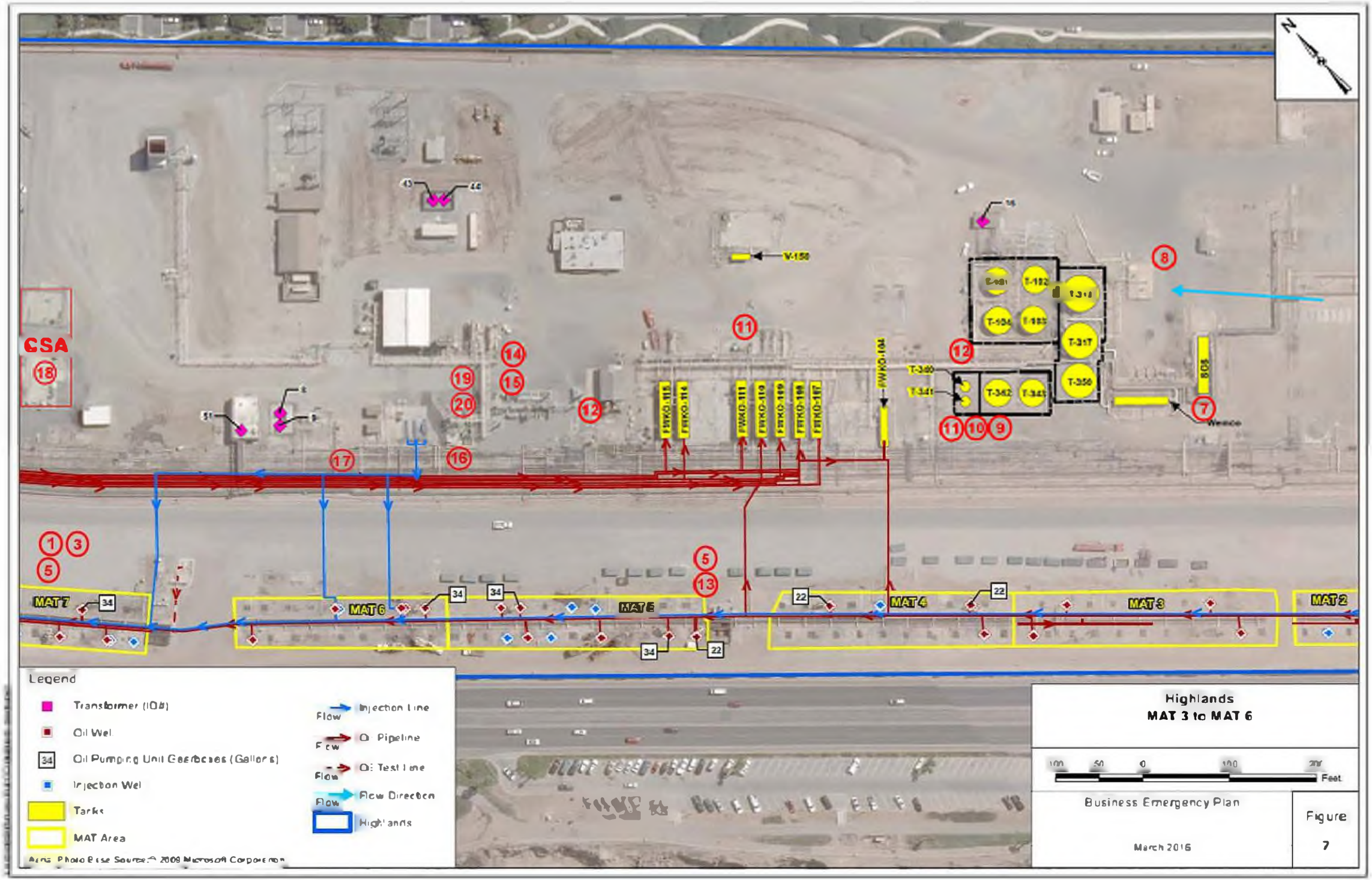
BUSINESS NAME		DATE
Fort Apache		March 2016
ADDRESS	**CITY**	**ZIP**
20101 Goldenwest St.	Huntington Beach	92648

LEGEND

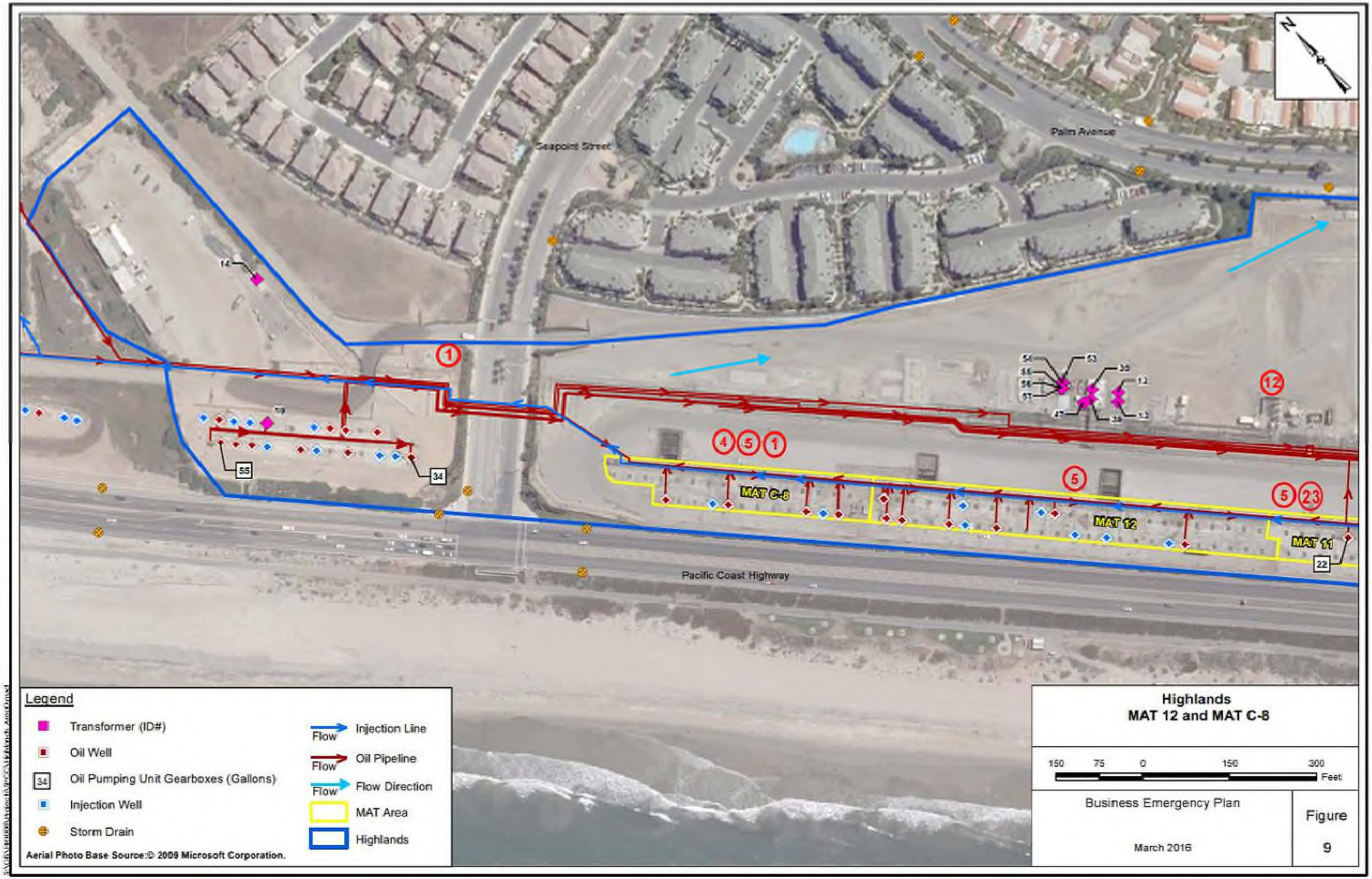
Define items not covered in the list provided. (Attach additional sheet if needed.)

Site map # _____

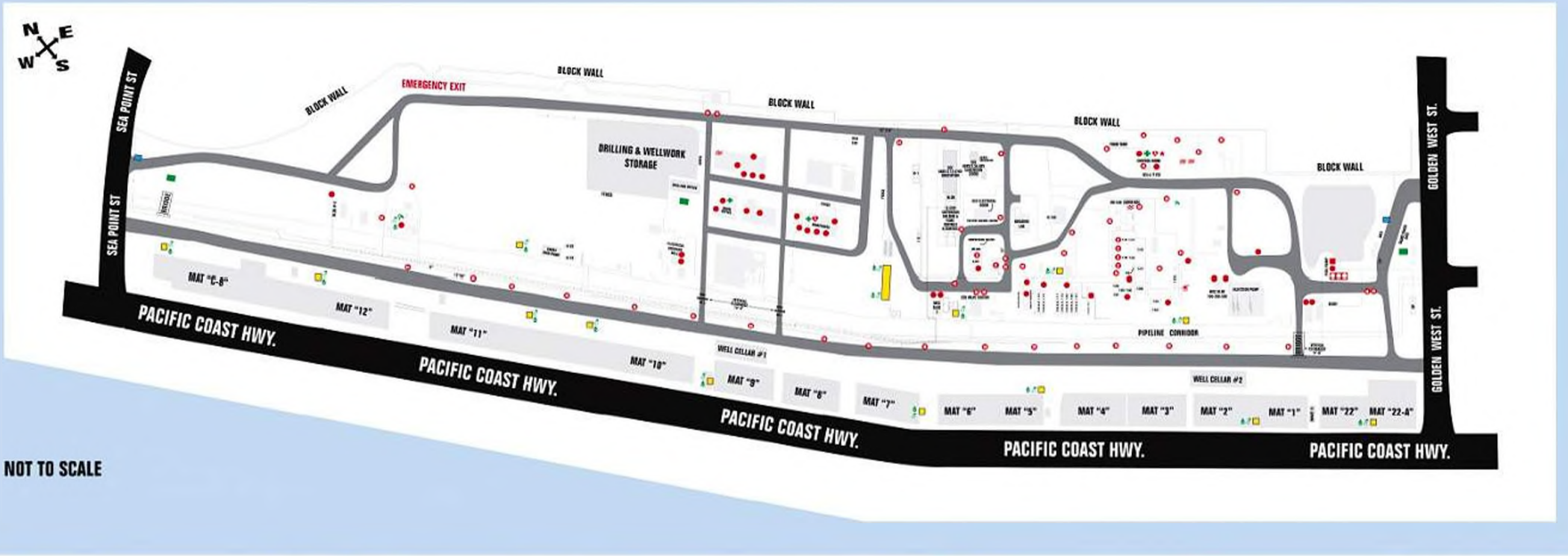

4
6
5
1
2
3
MAT 2
MAT 1
MAT 22
MAT 22-A
Walnut Avenue
Goldenwest Street
Pacific Coast Highway
Legend
Transformer (IDS)
Oil Well
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Storm Drain
Injection Line
Oil Pipeline
Flow Direction
MAT Area
Highlands
Aerial Photo Base Source © 2009 Microsoft Corporation.
Highlands
MAT 1, MAT 2, MAT 22, and MAT 22-A
Business Emergency Plan
March 2016
Figure
6


CSA
18
MAT 7
MAT 6
MAT 5
MAT 4
MAT 3
MAT 2
T-350
T-351
T-352
T-353
T-354
T-355
T-356
T-357
V-156
FWKO-104
FWKO-111
FWKO-112
FWKO-113
FWKO-114
FWKO-115
FWKO-116
FWKO-117
Legend
Transformer (108)
Oil Well
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Tanks
MAT Area
Injection Line
Oil Pipeline
Oil Test Line
Flow Direction
Highlands
Highlands
MAT 3 to MAT 6
Feet
Business Emergency Plan
March 2016
Figure
7


Palm Avenue
Pacific Coast Highway
MAT 11
MAT 10
MAT 9
MAT 8
MAT 7
1
9
21
22
12
10
11
52
5
4
34
55
22
Legend
Transformer (IDs)
Oil Well
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Storm Drain
Injection Line
Oil Pipeline
Flow Direction
MAT Area
Highlands
Aerial Photo Base Source © 2008 Microsoft Corporation
Highlands
MAT 7 to MAT 11
150
75
0
150
Business Emergency Plan
March 2016
Figure
8


Seapoint Street
Palm Avenue
Pacific Coast Highway
MAT C-8
MAT 12
MAT 11
55
34
22
Legend
Transformer (ID#)
Oil Well
Oil Pumping Unit Gearboxes (Gallons)
Injection Well
Storm Drain
Injection Line
Oil Pipeline
Flow Direction
MAT Area
Highlands
Aerial Photo Base Source:© 2009 Microsoft Corporation.
Highlands
MAT 12 and MAT C-8
150 75 0 150 300
Feet
Business Emergency Plan
March 2016
Figure
9

EMERGENCY EQUIPMENT SITE PLAN



- HYDRANT
- HYDRANT & MONITOR
- DELUGE SYSTEM
- FIRE HOSE
- FIRE EXTINGUISHER
- SPILL EQUIPMENT
- FIRE PUMP
- SCBA
- FIRE DEPARTMENT CONNECTION
- AED
- CHEMICAL STORAGE
- KNOX BOX
- SHOWER
- EYE WASH
- FIRST AID KIT
- WIND SOCK
  LOCK FOR WIND DIRECTION
- ASSEMBLY AREA

HUNTINGTON BEACH FACILITY **20101 GOLDENWEST ST., HUNTINGTON BEACH, CA 92648**

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID #	A1. CERS ID	A2. DATE OF PLAN PREPARATION/REVISION
	10446451	2/20/2018

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* 3.
Huntington Beach Field and Platform Emmy - SoCal Holding, LLC

BUSINESS SITE ADDRESS 103.
20101 Goldenwest St.

BUSINESS SITE CITY 104.		ZIP CODE 105.
Huntington Beach	CA	90648

A3. TYPE OF BUSINESS (e.g., Painting Contractor)	A4. INCIDENTAL OPERATIONS (e.g., Fleet Maintenance)
Crude Oil and Gas Production	Crude Oil and Gas Production

A5. THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING: (Check all that apply)

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

B1. INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Check all that apply)

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator (or his/her designee when the Emergency Coordinator is on call) shall:

1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
2. Notify appropriate local authorities (i.e., call 9-1-1).
3. Notify the California Emergency Management Agency at (800) 852-7550.

Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall notify the California Department of Toxic Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

C1. INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR VIA: (Check all that apply)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☒ 5. ALARM SYSTEM; ☒ 6. PORTABLE RADIO

C2. NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY: (Check all that apply)

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

EMERGENCY RESPONSE PHONE NUMBERS:

AMBULANCE, FIRE, POLICE AND CHP		9-1-1
CALIFORNIA EMERGENCY MANAGEMENT AGENCY (CAL/EMA)		(800) 852-7550
NATIONAL RESPONSE CENTER (NRC)		(800) 424-8802
POISON CONTROL CENTER		(800) 222-1222
LOCAL UNIFIED PROGRAM AGENCY (UPA/CUPA)		(714) 573-6250 C3.
OTHER (Specify):	C4.	C5.
NEAREST MEDICAL FACILITY / HOSPITAL NAME:	Huntington Beach Hospital C6.	(714) 842-1473 C7.

AGENCY NOTIFICATION PHONE NUMBERS:

CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)		(916) 255-3545
REGIONAL WATER QUALITY CONTROL BOARD		(951) 781-6288 C8.
U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)		(800) 300-2193
CALIFORNIA DEPT OF FISH AND GAME (DFG)		(916) 358-2900
U.S. COAST GUARD		(202) 267-2180
CAL/OSHA		(916) 263-2800
STATE FIRE MARSHAL		(916) 445-8200
OTHER (Specify):	SCAQMD C9.	(909) 396-2000 C10.
OTHER (Specify):	DOGGR C11.	(714) 816-6847 C12.

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, releases, fires or explosions; and, preventing and mitigating associated harm to persons, property, and the environment.) D1.

- ☒ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☒ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);
- ☒ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);
- ☒ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;
- ☒ 5. BUILT-IN BERM IN WORK / STORAGE AREA;
- ☒ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☒ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);
- ☒ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☒ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☒ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;
- ☒ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;
- ☒ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AREAS;
- ☒ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;
- ☐ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;
- ☒ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☒ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE;
- ☒ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;
- ☐ 21. OTHER (Specify): D2.

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY): E1.

- ☐ 1. BELLS;
- ☒ 2. HORNS/SIRENS;
- ☒ 3. VERBAL (I.E., SHOUTING);
- ☒ 4. OTHER (Specify): Cell Phone E2.

THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.) E3.

Primary onshore assembly area: Flagpole near main office buildings

Primary offshore assembly area: Satellite deck

Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation.

☒ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED E4.

Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

F. ARRANGEMENTS FOR EMERGENCY SERVICES

Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made as appropriate for your facility. You may determine that such arrangements are not necessary.

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following) F1.

- ☐ 1. HAVE BEEN DETERMINED NOT NECESSARY; *or*
- ☒ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify): F2.

Onshore: Patriot Environmental has been contracted to proved 24-hour emergency response cleanup services for the onshore facility. Patriot's phone number is (800) 624-9136.

Offshore: MSRC has been contracted to provide 24-hour emergency response cleanup services for the offshore facility. MSRC's phone number is (800) 645-7745.

G. EMERGENCY EQUIPMENT

Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g., ☒ CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.]

TYPE	EQUIPMENT AVAILABLE G1.	LOCATION	CAPABILITY *(If applicable)*
Safety and First Aid	1. ☒ CHEMICAL PROTECTIVE SUITS, APRONS, OR VESTS	G2. Warehouse	G3. Available to employees as needed
	2. ☒ CHEMICAL PROTECTIVE GLOVES	G4. Warehouse, each person	G5. Available to employees as needed
	3. ☒ CHEMICAL PROTECTIVE BOOTS	G6. Warehouse	G7. Available to employees as needed
	4. ☒ SAFETY GLASSES / GOGGLES / SHIELDS	G8. Each person	G9. All employees wear protective eyewear
	5. ☒ HARD HATS	G10. Each person	G11. All employees wear hard hats
	6. ☐ CARTRIDGE RESPIRATORS	G12.	G13.
	7. ☒ SELF-CONTAINED BREATHING APPARATUS (SCBA)	G14. Tank Farm Office/Emmy	G15. Units available for specific tasks
	8. ☒ FIRST AID KITS / STATIONS	G16. Warehouse, vehicles, office	G17. All vehicles carry first aid kits
	9. ☒ PLUMBED EYEWASH FOUNTAIN / SHOWER	G18. Various field locations	G19.
	10. ☒ PORTABLE EYEWASH KITS	G20. Various field locations and vehicles	G21. All vehicles carry eye wash bottles
	11. ☒ OTHER	G22. All employees wear H2S or 4-gas monitors	G23.
	12. ☒ OTHER	G24. All employees wear fire resistant clothing (FRC)	G25.
Fire Fighting	13. ☒ PORTABLE FIRE EXTINGUISHERS	G26. Vehicles	G27. 20 and/or 30 lbs. units in vehicles
	14. ☒ FIXED FIRE SYSTEMS / SPRINKLERS / FIRE HOSES	G28. Gas Plant (DCU)	G29. Deluge system for gas plant
	15. ☐ FIRE ALARM BOXES OR STATIONS	G30.	G31.
	16. ☐ OTHER	G32.	G33.
Spill Control and Clean-Up	17. ☐ ALL-IN-ONE SPILL KIT	G34.	G35.
	18. ☒ ABSORBENT MATERIAL	G36. Warehouse, field vehicles	G37.
	19. ☐ CONTAINER FOR USED ABSORBENT	G38.	G39.
	20. ☒ BERMING / DIKING EQUIPMENT	G40. Warehouse, Storage	G41. Secondary containment at all storage tanks
	21. ☒ BROOM	G42. Warehouse	G43. several
	22. ☒ SHOVEL	G44. Warehouse	G45. 10+ available
	23. ☐ SHOP VAC	G46.	G47.
	24. ☐ EXHAUST HOOD	G48.	G49.
	25. ☒ EMERGENCY SUMP / HOLDING TANK	G50. Tank Farm 1 Highlands	G51.
	26. ☐ CHEMICAL NEUTRALIZERS	G52.	G53.
	27. ☐ GAS CYLINDER LEAK REPAIR KIT	G54.	G55.
	28. ☐ SPILL OVERPACK DRUMS	G56.	G57.
	29. ☐ OTHER	G58.	G59.
Communi-cations and Alarm Systems	30. ☒ TELEPHONES (Includes cellular)	G60. Each person	G61. All employees have cell phones
	31. ☐ INTERCOM / PA SYSTEM	G62.	G63.
	32. ☒ PORTABLE RADIOS	G64. Each person	G65. All employees have cell phones and/or radios
	33. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT	G66.	G67.
Other	34. ☐ OTHER	G68.	G69.
	35. ☐ OTHER	G70.	G71.

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases / spills due to earthquake-related motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS: (Check all that apply)	H1.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)	
☒ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA		crude oil storage tanks	H2.
☒ 2. PROCESS LINES / PIPING			H3.
☐ 3. LABORATORY			H4.
☐ 4. WASTE TREATMENT AREA			H5.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS: (Check all that apply)	H6.	LOCATIONS	
☒ 1. SHELVES, CABINETS AND RACKS			H7.
☒ 2. TANKS (EMERGENCY SHUTOFF)			H8.
☒ 3. PORTABLE GAS CYLINDERS			H9.
☒ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES		shutoff valves	H10.
☒ 5. SPRINKLER SYSTEMS			H11.
☒ 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)		pressure vessel	H12.

I. EMPLOYEE TRAINING

Explanation of Requirement: Employee training is required for all employees handling hazardous materials and hazardous wastes in day-to-day or clean-up operations including volunteers and/or contractors. Training must be:

- Provided within 6 months for new hires;
- Amended as necessary prior to change in process or work assignment;
- Given upon modification to the Emergency Response / Contingency Plan, and updated/refreshed annually for all employees.

Required content includes all of the following:

- Material Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Fire hazards of materials / processes;
- Conditions likely to worsen emergencies;
- Coordination of emergency response;
- Notification procedures;
- Applicable laws and regulations;
- Communication and alarm systems;
- Personal protective equipment;
- Use of emergency response equipment (e.g. Fire extinguishers, respirators, etc.);
- Decontamination procedures;
- Evacuation procedures;
- Control and containment procedures;
- UST monitoring system equipment and procedures (if applicable).

INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all that apply) I1.

☐ 1. FORMAL CLASSROOM; ☒ 2. VIDEOS; ☒ 3. SAFETY / TAILGATE MEETINGS;

☒ 4. STUDY GUIDES / MANUALS (Specify): CRC HSE Manual I2.

☒ 5. OTHER (Specify): All employees participate in online safety coursework (viaTrainingMine), contractors undergo orientation upon hire I3.

☐ 6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES

Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste generators (i.e., who generate more than 270 gallons/1,000 kilograms of hazardous waste per month) must retain written documentation of employee hazardous waste management training sessions which includes:

- A written outline/agenda of the type and amount of both introductory and continuing training that will be given to persons filling each job position having responsibility for the management of hazardous waste (e.g., labeling, manifesting, compliance with accumulation time limits, etc.).
- The name, job title, and date of training for each hazardous waste management training session given to an employee filling such a job position; and
- A written job description for each of the above job positions that describes job duties and the skills, education, or other qualifications required of personnel assigned to the position.
- Current employee training records must be retained until closure of the facility.
- Former employee training records must be retained at least three years after termination of employment.

J. LIST OF ATTACHMENTS

(Check one of the following) J1.

☒ 1. NO ATTACHMENTS ARE REQUIRED; *or*

☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2

K. SIGNATURE / CERTIFICATION

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

SIGNATURE OF OWNER/OPERATOR	DATE SIGNED K1.
	2/20/2018
NAME OF SIGNER (print) K2.	TITLE OF SIGNER K3.
Kristy Monji	Environmental Specialist, HSE

CRC South HAZCOM			
Learner	**Date Completed**	**Training Item**	**Result**
Ababat,Wenifredo Saraum	7/25/2017 17:28	California Hazard Communication_SC-158	PASS
Adams,Donald T	4/4/2017 0:12	California Hazard Communication_SC-158	PASS
Adams,Donnell R	8/14/2017 0:34	California Hazard Communication_SC-158	PASS
Aguilera,Michael Zachary	5/16/2017 22:38	California Hazard Communication_SC-158	PASS
Alcala,Eduardo	8/10/2017 14:48	California Hazard Communication_SC-158	PASS
Alvarez-Granados,Juan M	8/15/2017 16:37	California Hazard Communication_SC-158	PASS
Alvary,Robert J	3/16/2017 10:19	California Hazard Communication_SC-158	PASS
Amador Sr,George Alex	8/26/2017 8:59	California Hazard Communication_SC-158	PASS
Amos,Russell Allen	3/25/2017 11:40	California Hazard Communication_SC-158	PASS
Andersen,Barkley Christopher	4/17/2017 9:25	California Hazard Communication_SC-158	PASS
Anguillet,Hans Paul Gustave	5/3/2017 17:29	California Hazard Communication_SC-158	PASS
Angus,Nathan C	3/31/2017 22:08	California Hazard Communication_SC-158	PASS
Anjos,Marcello	3/29/2017 12:05	California Hazard Communication_SC-158	PASS
Aragon,Michael Brendon	6/12/2017 16:29	California Hazard Communication_SC-158	PASS
Arriaga,Huitzilo	6/5/2017 14:57	California Hazard Communication_SC-158	PASS
Arrizon,Ignacio	4/5/2017 8:50	California Hazard Communication_SC-158	PASS
Ault,Ricci T	9/8/2017 23:04	California Hazard Communication_SC-158	PASS
Avalos,Justin Joshua	3/2/2017 14:38	California Hazard Communication_SC-158	PASS
Aviles,Carlos	9/21/2017 17:31	California Hazard Communication_SC-158	PASS
Aviles,Erick A	7/26/2017 13:14	California Hazard Communication_SC-158	PASS
Avina,Ivan Isayd	3/26/2017 19:57	California Hazard Communication_SC-158	PASS
Ayala,Joshua Rafael	8/21/2017 10:15	California Hazard Communication_SC-158	PASS
Ayer III,Bruce E	7/28/2017 17:07	California Hazard Communication_SC-158	PASS
Babcock,Ryan Dale	9/2/2017 7:29	California Hazard Communication_SC-158	PASS
Babinski,Sylvester A	3/31/2017 17:14	California Hazard Communication_SC-158	PASS
Ballinger,Nolan K	9/25/2017 12:24	California Hazard Communication_SC-158	PASS
Bean,James A	8/11/2017 10:08	California Hazard Communication_SC-158	PASS
Bell II,James E	3/21/2017 11:41	California Hazard Communication_SC-158	PASS
Bell,Joseph E	7/17/2017 16:11	California Hazard Communication_SC-158	PASS
Bell,Justin Lyn	3/7/2017 19:13	California Hazard Communication_SC-158	PASS
Benson,Joseph Eugene	3/10/2017 16:59	California Hazard Communication_SC-158	PASS
Benson,Lyndon E	3/11/2017 6:47	California Hazard Communication_SC-158	PASS
Bernabe,Mauro M	9/12/2017 15:05	California Hazard Communication_SC-158	PASS
Berry,Todd William	3/20/2017 9:02	California Hazard Communication_SC-158	PASS
Bilyeu,Cassandra Renee	4/27/2017 10:33	California Hazard Communication_SC-158	PASS
Bingham,Elden David	3/21/2017 7:32	California Hazard Communication_SC-158	PASS
Birkinshaw,Brian David	3/26/2017 16:43	California Hazard Communication_SC-158	PASS
Black,Ron R	3/17/2017 23:23	California Hazard Communication_SC-158	PASS
Blair,William Scott	4/2/2017 17:54	California Hazard Communication_SC-158	PASS
Blankenship,Mark F	3/2/2017 12:53	California Hazard Communication_SC-158	PASS
Blouin IV,James Marlyn	5/1/2017 11:24	California Hazard Communication_SC-158	PASS
Bogardus,Robert W	5/3/2017 11:53	California Hazard Communication_SC-158	PASS
Brandon,Cynthia W	10/9/2017 13:39	California Hazard Communication_SC-158	PASS
Branson,Michael Loren	3/6/2017 16:55	California Hazard Communication_SC-158	PASS
Brawley,Ester Maria	5/19/2017 11:38	California Hazard Communication_SC-158	PASS
Bremner,Andrew Butler	6/5/2017 10:47	California Hazard Communication_SC-158	PASS
Brendle,Jason Dwight	5/5/2017 12:21	California Hazard Communication_SC-158	PASS
Brewer,Adam James	4/2/2017 20:21	California Hazard Communication_SC-158	PASS

Briggs,Keith A	8/18/2017 3:29	California Hazard Communication_SC-158	PASS
Brown,Eric Robert	2/2/2017 9:48	California Hazard Communication_SC-158	PASS
Brown,Larry V	3/20/2017 11:20	California Hazard Communication_SC-158	PASS
Buffington,John Jefftrey	3/13/2017 16:33	California Hazard Communication_SC-158	PASS
Burchard,Eric Keith	3/26/2017 12:04	California Hazard Communication_SC-158	PASS
Butler,Bret A	8/3/2017 4:30	California Hazard Communication_SC-158	PASS
Caceres,Cesar Gabriel	8/8/2017 10:38	California Hazard Communication_SC-158	PASS
Calahan,Charles R	3/21/2017 15:07	California Hazard Communication_SC-158	PASS
Cannon,Robert Daniel	4/3/2017 11:53	California Hazard Communication_SC-158	PASS
Carey,Todd David	8/11/2017 16:04	California Hazard Communication_SC-158	PASS
Carlsen,Theodore	1/26/2017 10:42	California Hazard Communication_SC-158	PASS
Carlsen,Theodore	11/28/2017 15:39	California Hazard Communication_SC-158	PASS
Carrasco,Taylor L	6/7/2017 11:56	California Hazard Communication_SC-158	PASS
Carroll,Braden D	5/31/2017 18:24	California Hazard Communication_SC-158	PASS
Carter,Bruce Andrew	6/26/2017 16:55	California Hazard Communication_SC-158	PASS
Carter,Monte Ray	7/4/2017 5:10	California Hazard Communication_SC-158	PASS
Cassady,David Al	7/6/2017 18:21	California Hazard Communication_SC-158	PASS
Castro,Maira	5/4/2017 14:52	California Hazard Communication_SC-158	PASS
Cayanan,Christopher Jaramilla	5/2/2017 19:49	California Hazard Communication_SC-158	PASS
Chavez,Fernando	4/17/2017 8:53	California Hazard Communication_SC-158	PASS
Chavez,Joseph Mitchell	3/21/2017 1:18	California Hazard Communication_SC-158	PASS
Chavez,Ruben	6/25/2017 10:07	California Hazard Communication_SC-158	PASS
Chavez,Sonya M	3/10/2017 14:31	California Hazard Communication_SC-158	PASS
Chessum,William Raymond	5/1/2017 10:37	California Hazard Communication_SC-158	PASS
Christian,Connie Alice	8/8/2017 10:19	California Hazard Communication_SC-158	PASS
Christian,Jordan Michael	4/17/2017 10:12	California Hazard Communication_SC-158	PASS
Christianson,Zachary Andrew	2/1/2017 0:05	California Hazard Communication_SC-158	PASS
Chung,Woo R	11/20/2017 12:10	California Hazard Communication_SC-158	PASS
Cisneros,Sabrina Nicole	5/5/2017 11:51	California Hazard Communication_SC-158	PASS
Clark,Justin Reiley	6/5/2017 15:53	California Hazard Communication_SC-158	PASS
Clarke,Aaron J	9/25/2017 16:15	California Hazard Communication_SC-158	PASS
Contreras,Carlos Alberto	7/3/2017 13:58	California Hazard Communication_SC-158	PASS
Cook,Robert Daniel	6/2/2017 10:28	California Hazard Communication_SC-158	PASS
Corbett,Diane Marie	7/26/2017 13:26	California Hazard Communication_SC-158	PASS
Cordova,Vicente	8/20/2017 7:01	California Hazard Communication_SC-158	PASS
Correa,Jorge L	4/3/2017 8:43	California Hazard Communication_SC-158	PASS
Cotton,Justin	5/8/2017 12:13	California Hazard Communication_SC-158	PASS
Cowing,Dane C	6/2/2017 12:12	California Hazard Communication_SC-158	PASS
Crooks,John S	9/13/2017 16:21	California Hazard Communication_SC-158	PASS
Crouch,John A	9/27/2017 15:58	California Hazard Communication_SC-158	PASS
Crouch,Nikolai Anthony	8/10/2017 14:46	California Hazard Communication_SC-158	PASS
Crouthers,Thomas Andrew	6/12/2017 11:51	California Hazard Communication_SC-158	PASS
Currie,Donald Keith	8/24/2017 8:27	California Hazard Communication_SC-158	PASS
Dabney Jr,James W	7/31/2017 17:09	California Hazard Communication_SC-158	PASS
Dali,Sarabjyot S	6/2/2017 13:17	California Hazard Communication_SC-158	PASS
Dant,Catherine Diane	12/4/2017 13:57	California Hazard Communication_SC-158	PASS
D'Avella,Sarah Marcela	8/21/2017 13:49	California Hazard Communication_SC-158	PASS
Davis,Anthony J	10/2/2017 16:22	California Hazard Communication_SC-158	PASS
Day,Joseph Floyd	5/25/2017 11:16	California Hazard Communication_SC-158	PASS
De La Rosa,Alex L	9/1/2017 18:18	California Hazard Communication_SC-158	PASS

Decker,Brandi Jean	8/2/2017 10:12	California Hazard Communication_SC-158	PASS
Delgado,Blaise Roca	9/4/2017 13:59	California Hazard Communication_SC-158	PASS
Delgado,Nimai P	6/5/2017 14:16	California Hazard Communication_SC-158	PASS
DeZavala,Kyle Jacob	3/10/2017 11:35	California Hazard Communication_SC-158	PASS
Diaz,Jesse	8/28/2017 14:42	California Hazard Communication_SC-158	PASS
Dimovski,Dusko	7/17/2017 9:38	California Hazard Communication_SC-158	PASS
Dominguez,Al J	2/9/2017 16:15	California Hazard Communication_SC-158	PASS
Donald,Adam D	5/3/2017 12:01	California Hazard Communication_SC-158	PASS
Duckworth,Steven Murat	3/5/2017 0:25	California Hazard Communication_SC-158	PASS
Dutra,Yolanda	6/7/2017 14:20	California Hazard Communication_SC-158	PASS
Earnshaw,Warren M	3/26/2017 12:56	California Hazard Communication_SC-158	PASS
Ellaboudy,Sameh	7/10/2017 17:06	California Hazard Communication_SC-158	PASS
Ellis,Tyler W	11/3/2017 7:36	California Hazard Communication_SC-158	PASS
Enos,James Robert	4/12/2017 10:53	California Hazard Communication_SC-158	PASS
Epton,Abigail Leigh	3/13/2017 14:45	California Hazard Communication_SC-158	PASS
Esparza,Teodoro	8/18/2017 10:58	California Hazard Communication_SC-158	PASS
Espindola,Daniel	3/31/2017 16:13	California Hazard Communication_SC-158	PASS
Estes,Garrett Scott	8/7/2017 16:25	California Hazard Communication_SC-158	PASS
Feil,Chris Wayne	7/20/2017 0:52	California Hazard Communication_SC-158	PASS
Fillmore,Ryan Dean	3/18/2017 13:15	California Hazard Communication_SC-158	PASS
Fleming II,James Thomas	9/28/2017 9:06	California Hazard Communication_SC-158	PASS
Fletcher,Daniel Paul	6/26/2017 17:29	California Hazard Communication_SC-158	PASS
Fonzo,Amy Lynn	9/25/2017 15:36	California Hazard Communication_SC-158	PASS
Forster,Christopher James	7/5/2017 13:11	California Hazard Communication_SC-158	PASS
Fox,Jason McMillan	6/2/2017 10:58	California Hazard Communication_SC-158	PASS
Freewalt,Kevin James	6/1/2017 18:35	California Hazard Communication_SC-158	PASS
Fritz,James L	1/31/2017 13:11	California Hazard Communication_SC-158	PASS
Fritz,Maria Elva	6/29/2017 18:07	California Hazard Communication_SC-158	PASS
Fulkerson,Jennifer Lynn	7/12/2017 12:22	California Hazard Communication_SC-158	PASS
Gallardo Jr,Alejandro	4/1/2017 18:18	California Hazard Communication_SC-158	PASS
Gamiz,Edgar Alfonso	4/2/2017 12:44	California Hazard Communication_SC-158	PASS
Gangl,Steven J	3/25/2017 13:57	California Hazard Communication_SC-158	PASS
Gappy,Sandi Mavie	8/8/2017 11:38	California Hazard Communication_SC-158	PASS
Garcia,Alejandro	8/1/2017 15:07	California Hazard Communication_SC-158	PASS
Garcia,Daniel Luis	7/30/2017 18:20	California Hazard Communication_SC-158	PASS
Garcia,Jose A	7/30/2017 15:06	California Hazard Communication_SC-158	PASS
Garcia,Luis	7/10/2017 10:53	California Hazard Communication_SC-158	PASS
Garland,David Blaine	7/19/2017 4:25	California Hazard Communication_SC-158	PASS
Garner,Ted A	8/3/2017 11:11	California Hazard Communication_SC-158	PASS
Gonzalez,Sonia	7/5/2017 18:39	California Hazard Communication_SC-158	PASS
Gonzalez,Steve	9/25/2017 15:01	California Hazard Communication_SC-158	PASS
Goodwin,Michael David	4/1/2017 1:20	California Hazard Communication_SC-158	PASS
Gordon,Ryan C	8/25/2017 11:16	California Hazard Communication_SC-158	PASS
Gorman,Donald Leroy	4/1/2017 23:23	California Hazard Communication_SC-158	PASS
Goza,Terry Melvin	8/3/2017 17:30	California Hazard Communication_SC-158	PASS
Grant,Troy Lee	7/3/2017 9:26	California Hazard Communication_SC-158	PASS
Grasse,Scott W	12/18/2017 15:16	California Hazard Communication_SC-158	PASS
Green,Christopher David	8/24/2017 16:26	California Hazard Communication_SC-158	PASS
Greig,Stephen A	4/25/2017 15:16	California Hazard Communication_SC-158	PASS
Griffith,Andrew C	10/6/2017 12:25	California Hazard Communication_SC-158	PASS

Gross,Timothy Garrison	6/12/2017 10:42	California Hazard Communication_SC-158	PASS
Grover,Matthew S	5/31/2017 13:04	California Hazard Communication_SC-158	PASS
Grundstrom,Robert Jacob	8/1/2017 13:09	California Hazard Communication_SC-158	PASS
Guerra,Ernesto	3/22/2017 12:08	California Hazard Communication_SC-158	PASS
Guthery,Macey Elaine	4/18/2017 15:54	California Hazard Communication_SC-158	PASS
Hammond Jr,Kenneth L	5/5/2017 14:11	California Hazard Communication_SC-158	PASS
Hanley,Bryan E	11/20/2017 13:28	California Hazard Communication_SC-158	PASS
Hardisty,Jon Michael	7/2/2017 13:14	California Hazard Communication_SC-158	PASS
Hardwick,Bryan M	5/31/2017 15:37	California Hazard Communication_SC-158	PASS
Harmon,Ronald Henderson	3/7/2017 4:57	California Hazard Communication_SC-158	PASS
Harris,Clint Lee	12/31/2017 10:37	California Hazard Communication_SC-158	PASS
Harris,Randall S	8/1/2017 13:09	California Hazard Communication_SC-158	PASS
Hasan,Qamar	5/18/2017 10:32	California Hazard Communication_SC-158	PASS
Hasselman,John E	6/5/2017 15:01	California Hazard Communication_SC-158	PASS
Heesch,Justin J	7/25/2017 9:33	California Hazard Communication_SC-158	PASS
Hemphill,Stephanie Nicole	5/2/2017 20:11	California Hazard Communication_SC-158	PASS
Henry,William P	3/12/2017 16:49	California Hazard Communication_SC-158	PASS
Hernandez,Erick	8/1/2017 8:14	California Hazard Communication_SC-158	PASS
Hernandez,Robert	8/31/2017 15:08	California Hazard Communication_SC-158	PASS
Hill,Edward C	4/24/2017 17:07	California Hazard Communication_SC-158	PASS
Hill,Johnathon	8/18/2017 11:32	California Hazard Communication_SC-158	PASS
Hinojosa,John	9/21/2017 16:09	California Hazard Communication_SC-158	PASS
Hiser,Daniel Edward	9/5/2017 16:44	California Hazard Communication_SC-158	PASS
Hoang,Thuan Huu	7/21/2017 3:44	California Hazard Communication_SC-158	PASS
Hogan Jr,James M	8/28/2017 13:57	California Hazard Communication_SC-158	PASS
Holland III,Leon	9/28/2017 8:57	California Hazard Communication_SC-158	PASS
Horton,George	6/9/2017 23:03	California Hazard Communication_SC-158	PASS
Huber,Anthony M	9/29/2017 12:29	California Hazard Communication_SC-158	PASS
Huynh,Anh Lan	6/2/2017 11:12	California Hazard Communication_SC-158	PASS
Huynh,Tuan Minh	8/11/2017 14:52	California Hazard Communication_SC-158	PASS
Hyrny,Richard M	6/19/2017 16:05	California Hazard Communication_SC-158	PASS
Iriarte,Estuardo	5/25/2017 11:44	California Hazard Communication_SC-158	PASS
Irwin,Jeannie M	6/14/2017 16:31	California Hazard Communication_SC-158	PASS
Jacobs,Brett A	2/5/2017 13:08	California Hazard Communication_SC-158	PASS
Jark,Eric Richard	2/1/2017 0:56	California Hazard Communication_SC-158	PASS
Jeffries,Richard A	7/27/2017 23:25	California Hazard Communication_SC-158	PASS
Jensen,Kristen M	5/15/2017 15:21	California Hazard Communication_SC-158	PASS
Jimenez,Luis Miguel	4/17/2017 13:30	California Hazard Communication_SC-158	PASS
Johnston Jr,Terry M	11/29/2017 16:45	California Hazard Communication_SC-158	PASS
Jones,Christopher P	3/11/2017 17:01	California Hazard Communication_SC-158	PASS
Jones,Joshua M	3/26/2017 9:26	California Hazard Communication_SC-158	PASS
Joyce,Matthew R	9/8/2017 10:31	California Hazard Communication_SC-158	PASS
Junkins Jr,Terry	9/13/2017 11:07	California Hazard Communication_SC-158	PASS
Kahrhoff Jr,James Cowton	6/29/2017 17:24	California Hazard Communication_SC-158	PASS
Kellogg,Ryan Powell	7/31/2017 11:18	California Hazard Communication_SC-158	PASS
Kerr,Brian D	7/25/2017 13:08	California Hazard Communication_SC-158	PASS
Khan,Tabrez Ahmed	4/17/2017 13:11	California Hazard Communication_SC-158	PASS
Khan,Tariq Mahmood Ali	8/21/2017 12:22	California Hazard Communication_SC-158	PASS
Kidd,Alan	4/27/2017 16:54	California Hazard Communication_SC-158	PASS
Klein,Jon W	6/30/2017 10:14	California Hazard Communication_SC-158	PASS

Kochanski,Kyle Christopher	3/7/2017 17:17	California Hazard Communication_SC-158	PASS
Kolar,Christopher Paul	6/8/2017 17:11	California Hazard Communication_SC-158	PASS
Kretzschmar,Robert Patrick	4/1/2017 9:50	California Hazard Communication_SC-158	PASS
Kroner,Drew Kelly	4/3/2017 10:19	California Hazard Communication_SC-158	PASS
Kuchinski,Cheri Kay	2/13/2017 15:58	California Hazard Communication_SC-158	PASS
Kulkarni,Vijay Balwant	4/6/2017 11:24	California Hazard Communication_SC-158	PASS
Kunstek,Nicholas M	1/10/2017 17:18	California Hazard Communication_SC-158	PASS
Kutivan,William Arthur	3/17/2017 20:14	California Hazard Communication_SC-158	PASS
Kwong,Ryan	6/8/2017 18:46	California Hazard Communication_SC-158	PASS
La Mar,Jacob Dell	3/18/2017 12:36	California Hazard Communication_SC-158	PASS
LaBelle,Brian E	5/2/2017 3:41	California Hazard Communication_SC-158	PASS
Lambert,Stephan A	3/19/2017 12:17	California Hazard Communication_SC-158	PASS
Larderuccio,Denise Michele	7/17/2017 11:35	California Hazard Communication_SC-158	PASS
LaRue,Steve E	3/17/2017 1:06	California Hazard Communication_SC-158	PASS
Lavigne,Matthew L	4/1/2017 17:23	California Hazard Communication_SC-158	PASS
Layus,Katherine Macayan	7/18/2017 19:08	California Hazard Communication_SC-158	PASS
Leal,Timothy Mark	7/6/2017 8:15	California Hazard Communication_SC-158	PASS
Lee,Daniel Jay	5/23/2017 18:04	California Hazard Communication_SC-158	PASS
Lee,Gordon	7/31/2017 14:38	California Hazard Communication_SC-158	PASS
Lee,Michael Peter	5/1/2017 10:56	California Hazard Communication_SC-158	PASS
Lester,Jeffrey G	6/8/2017 22:12	California Hazard Communication_SC-158	PASS
Lim,Jason	7/31/2017 11:00	California Hazard Communication_SC-158	PASS
Lind,William T	9/22/2017 10:57	California Hazard Communication_SC-158	PASS
Lindelius,Mark Evan	8/8/2017 16:11	California Hazard Communication_SC-158	PASS
Linn,Sean David	8/2/2017 7:05	California Hazard Communication_SC-158	PASS
Little,Nathan D	9/18/2017 16:16	California Hazard Communication_SC-158	PASS
Logan,Steven Kain	9/29/2017 1:30	California Hazard Communication_SC-158	PASS
Lopez,Tristen Ashley	6/1/2017 16:32	California Hazard Communication_SC-158	PASS
Lount,Raymond Lee	6/1/2017 11:36	California Hazard Communication_SC-158	PASS
Lozano,Jose L	6/8/2017 12:42	California Hazard Communication_SC-158	PASS
Ma,Cynthia Xiaoming	6/17/2017 16:10	California Hazard Communication_SC-158	PASS
Macedo,Esmeralda Guadalupe	6/30/2017 10:44	California Hazard Communication_SC-158	PASS
Magana,Mark A	9/3/2017 2:04	California Hazard Communication_SC-158	PASS
Malcomb,Joseph Ramon	5/31/2017 15:16	California Hazard Communication_SC-158	PASS
Manicka Karamchandhran,Krishnakumar	9/17/2017 11:08	California Hazard Communication_SC-158	PASS
Manuo,Junior O	3/26/2017 23:38	California Hazard Communication_SC-158	PASS
Marshall IV,Dan Wesley	7/3/2017 13:09	California Hazard Communication_SC-158	PASS
Martin,Edward	11/28/2017 18:02	California Hazard Communication_SC-158	PASS
Martinez,Brenda Renee	8/16/2017 12:24	California Hazard Communication_SC-158	PASS
Martinez,Jeff Uwani	9/26/2017 16:21	California Hazard Communication_SC-158	PASS
Martinez,Jose L	4/3/2017 14:28	California Hazard Communication_SC-158	PASS
Martinez,Tomas	3/23/2017 22:32	California Hazard Communication_SC-158	PASS
Mason,Dustin Scott	7/31/2017 16:49	California Hazard Communication_SC-158	PASS
Mather III,Charles Beckman	6/13/2017 17:26	California Hazard Communication_SC-158	PASS
Matthias Jr,Donald A	2/28/2017 15:42	California Hazard Communication_SC-158	PASS
McCord,Timothy Curren	9/18/2017 8:03	California Hazard Communication_SC-158	PASS
McEwan,Barbara B	8/7/2017 12:48	California Hazard Communication_SC-158	PASS
McGinnis,Danny R	7/17/2017 9:18	California Hazard Communication_SC-158	PASS

McGrew,Alan Wilson	8/2/2017 9:29	California Hazard Communication_SC-158	PASS
McKibbon,Justin	3/17/2017 0:31	California Hazard Communication_SC-158	PASS
Meeker,Nichole Wilbert	6/15/2017 10:48	California Hazard Communication_SC-158	PASS
Melendez,Hector	3/20/2017 9:40	California Hazard Communication_SC-158	PASS
Melnar,Michael Edward	5/4/2017 16:23	California Hazard Communication_SC-158	PASS
Memarzadeh,Arash	5/15/2017 11:54	California Hazard Communication_SC-158	PASS
Mena,Jason Jacinto	5/1/2017 10:52	California Hazard Communication_SC-158	PASS
Mendes,Christopher Andrew	6/1/2017 12:27	California Hazard Communication_SC-158	PASS
Mercier,David Joseph	6/7/2017 17:07	California Hazard Communication_SC-158	PASS
Mitchell,Jonathan D	3/27/2017 17:57	California Hazard Communication_SC-158	PASS
Mock,Steve A	3/2/2017 1:37	California Hazard Communication_SC-158	PASS
Monji,Kristy K	4/9/2017 12:04	California Hazard Communication_SC-158	PASS
Montijo,Richard A	3/13/2017 0:56	California Hazard Communication_SC-158	PASS
Monzon,Joyce Ann	6/28/2017 11:34	California Hazard Communication_SC-158	PASS
Mooney,Jess Dalton	7/30/2017 18:54	California Hazard Communication_SC-158	PASS
Moopen,Siraj	5/31/2017 11:15	California Hazard Communication_SC-158	PASS
Mosher,Annie Gabrielle	6/19/2017 13:25	California Hazard Communication_SC-158	PASS
Mulvaney,Scott R	4/1/2017 11:38	California Hazard Communication_SC-158	PASS
Murphy,Daniel Lee	3/13/2017 16:53	California Hazard Communication_SC-158	PASS
Nacorda,Lloyd G	5/15/2017 17:40	California Hazard Communication_SC-158	PASS
Nelson,Steven Charles	6/1/2017 8:41	California Hazard Communication_SC-158	PASS
Newitt,Karen L	7/31/2017 14:15	California Hazard Communication_SC-158	PASS
Ney,Kevin James	1/24/2017 18:49	California Hazard Communication_SC-158	PASS
Nguyen,Andy C	5/25/2017 15:14	California Hazard Communication_SC-158	PASS
Nguyen,David	5/31/2017 10:36	California Hazard Communication_SC-158	PASS
Ngwe,Ezeanyi	7/10/2017 13:47	California Hazard Communication_SC-158	PASS
Niebuhr,Dean Eugene	4/21/2017 14:41	California Hazard Communication_SC-158	PASS
Nobriga,Jeff R	8/15/2017 13:29	California Hazard Communication_SC-158	PASS
Nordin,Christopher J	3/9/2017 11:19	California Hazard Communication_SC-158	PASS
Ochoa,Edgar M	3/31/2017 10:10	California Hazard Communication_SC-158	PASS
Oliver,Wayne S	6/6/2017 10:08	California Hazard Communication_SC-158	PASS
Olson,Kevin D	2/20/2017 11:32	California Hazard Communication_SC-158	PASS
Olson,Kristopher Kevin	8/3/2017 20:00	California Hazard Communication_SC-158	PASS
O'Rear,Scott	6/2/2017 10:43	California Hazard Communication_SC-158	PASS
Ormberg,Chant Austin	3/26/2017 10:14	California Hazard Communication_SC-158	PASS
Orozco Jr,Martin	8/9/2017 16:24	California Hazard Communication_SC-158	PASS
O'Sullivan,Kevin Paul	9/28/2017 8:19	California Hazard Communication_SC-158	PASS
Pacis,Carlos J	2/26/2017 3:09	California Hazard Communication_SC-158	PASS
Padgett,Kenneth Steven	3/30/2017 5:24	California Hazard Communication_SC-158	PASS
Park,Kimiko K	7/10/2017 16:02	California Hazard Communication_SC-158	PASS
Pate,Lee E	8/2/2017 4:21	California Hazard Communication_SC-158	PASS
Payne,Eric Scott	7/21/2017 9:45	California Hazard Communication_SC-158	PASS
Payne,William Joe	7/30/2017 13:07	California Hazard Communication_SC-158	PASS
Pearson,Matthew J	8/17/2017 15:36	California Hazard Communication_SC-158	PASS
Perry,Mathew J	8/5/2017 7:24	California Hazard Communication_SC-158	PASS
Persinger,Harold Dean	5/31/2017 18:41	California Hazard Communication_SC-158	PASS
Perz,Jason R	2/16/2017 19:04	California Hazard Communication_SC-158	PASS
Peters,Justin James	9/5/2017 14:57	California Hazard Communication_SC-158	PASS
Pham,Cuong Manh	6/15/2017 19:41	California Hazard Communication_SC-158	PASS
Pickett,Michael Anthony	3/28/2017 16:36	California Hazard Communication_SC-158	PASS

Pirayoff,Allison D	7/5/2017 16:16	California Hazard Communication_SC-158	PASS
Plant,Charles P	7/17/2017 14:26	California Hazard Communication_SC-158	PASS
Poe,Jamal Lanier	10/1/2017 12:38	California Hazard Communication_SC-158	PASS
Polk,Keith R	10/11/2017 13:55	California Hazard Communication_SC-158	PASS
Poole,Jeffrey William	7/5/2017 12:49	California Hazard Communication_SC-158	PASS
Pruet,James Andrew	5/1/2017 10:27	California Hazard Communication_SC-158	PASS
Ramirez,Ignacio	3/12/2017 12:39	California Hazard Communication_SC-158	PASS
Ramirez,Jorge	7/31/2017 13:12	California Hazard Communication_SC-158	PASS
Ramos,Noel J	2/28/2017 23:23	California Hazard Communication_SC-158	PASS
Rams,Cheryl L	7/3/2017 12:58	California Hazard Communication_SC-158	PASS
Ramsey,Katherine L	7/3/2017 6:47	California Hazard Communication_SC-158	PASS
Rauschenberger,James P	3/24/2017 12:28	California Hazard Communication_SC-158	PASS
Rayson,Nolan James	7/10/2017 4:21	California Hazard Communication_SC-158	PASS
Reed,Justin Carl	9/26/2017 12:37	California Hazard Communication_SC-158	PASS
Reed,Ryan R	4/3/2017 15:53	California Hazard Communication_SC-158	PASS
Reeser,Linda L	6/5/2017 17:58	California Hazard Communication_SC-158	PASS
Referente,Ryan P	8/25/2017 18:49	California Hazard Communication_SC-158	PASS
Reiner,Brit Michael	6/8/2017 12:18	California Hazard Communication_SC-158	PASS
Reinking,Robert A	3/14/2017 13:27	California Hazard Communication_SC-158	PASS
Reischer,Elizabeth Mendoza	10/2/2017 13:01	California Hazard Communication_SC-158	PASS
Rendon,Josafat	3/4/2017 5:02	California Hazard Communication_SC-158	PASS
Renn,Robert Nolan	3/28/2017 1:19	California Hazard Communication_SC-158	PASS
Rico,Joseph D	3/29/2017 13:46	California Hazard Communication_SC-158	PASS
Ritts,Linda R	9/5/2017 17:11	California Hazard Communication_SC-158	PASS
Rivard,Cambria Christine	7/27/2017 10:22	California Hazard Communication_SC-158	PASS
Roberts,Jarred James	12/13/2017 16:22	California Hazard Communication_SC-158	PASS
Roberts,Richard J	7/30/2017 17:53	California Hazard Communication_SC-158	PASS
Robledo,Ray	9/18/2017 11:13	California Hazard Communication_SC-158	PASS
Rodriguez,David Anthony	2/2/2017 13:59	California Hazard Communication_SC-158	PASS
Rogers,Neil S	4/3/2017 10:35	California Hazard Communication_SC-158	PASS
Romero Jr,Pedro Lozano	8/6/2017 0:02	California Hazard Communication_SC-158	PASS
Roshanzamir,Amir Ali	5/11/2017 15:34	California Hazard Communication_SC-158	PASS
Royster II,Ronald D	8/6/2017 20:31	California Hazard Communication_SC-158	PASS
Salas,Francisco M	3/28/2017 2:06	California Hazard Communication_SC-158	PASS
Salceda,Edward C	9/27/2017 8:17	California Hazard Communication_SC-158	PASS
Salverson,Kaitlyn R	5/2/2017 10:55	California Hazard Communication_SC-158	PASS
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Sandoval Zuniga,Rene	9/19/2017 11:37	California Hazard Communication_SC-158	PASS
Scarborough,James Geoffrey	9/8/2017 14:39	California Hazard Communication_SC-158	PASS
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Scott,Tosha Cherece	6/30/2017 16:02	California Hazard Communication_SC-158	PASS
Sebag,Robert	4/24/2017 11:34	California Hazard Communication_SC-158	PASS
Seid,Christopher Ryan	6/27/2017 11:36	California Hazard Communication_SC-158	PASS
Seidner,Karla Kay	10/10/2017 18:37	California Hazard Communication_SC-158	PASS
Sharma,Sanjay	10/2/2017 18:41	California Hazard Communication_SC-158	PASS
Shary Jr,Christopher M	9/20/2017 23:40	California Hazard Communication_SC-158	PASS
Shatzel,Christopher Michael	4/3/2017 10:44	California Hazard Communication_SC-158	PASS
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Smith,William Tell	3/4/2017 23:14	California Hazard Communication_SC-158	PASS
Soto,Danny A	9/25/2017 15:21	California Hazard Communication_SC-158	PASS
Soto,James Jason	2/1/2017 16:21	California Hazard Communication_SC-158	PASS
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Stephens III,James A	7/25/2017 10:19	California Hazard Communication_SC-158	PASS
Steward,Grady	3/20/2017 14:30	California Hazard Communication_SC-158	PASS
Stilwell,Meagan R	4/12/2017 13:10	California Hazard Communication_SC-158	PASS
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Stromberg,Evan Michael	8/8/2017 14:40	California Hazard Communication_SC-158	PASS
Sun,Alice Hannah	4/19/2017 9:28	California Hazard Communication_SC-158	PASS
Tafoya,William Shannon	3/29/2017	California Hazard Communication_SC-158	PASS
Talamoa,Jonathan Suluai	10/30/2017 9:57	California Hazard Communication_SC-158	PASS
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Tanaka,Larry G	3/28/2017 17:39	California Hazard Communication_SC-158	PASS
Teasley IV,Charles Jones	9/6/2017 12:29	California Hazard Communication_SC-158	PASS
Tello,Armando	5/21/2017 18:20	California Hazard Communication_SC-158	PASS
Terrazas,Jesse	4/24/2017 16:46	California Hazard Communication_SC-158	PASS
Thompson,Barry Dale	3/6/2017 20:58	California Hazard Communication_SC-158	PASS
Thompson,Jeffrey D	5/6/2017 11:53	California Hazard Communication_SC-158	PASS
Thorner,Kurt	5/25/2017 10:40	California Hazard Communication_SC-158	PASS
Tilley,Larry L	7/31/2017 13:43	California Hazard Communication_SC-158	PASS
Tomkinson,Robert Matthew	2/23/2017 11:09	California Hazard Communication_SC-158	PASS
Toreja,Joel Semira	8/22/2017 15:02	California Hazard Communication_SC-158	PASS
Torpey,John Michael	5/31/2017 12:19	California Hazard Communication_SC-158	PASS
Treitz,Justin P	5/30/2017 12:32	California Hazard Communication_SC-158	PASS
Triola Jr,Charles Joseph	5/31/2017 14:16	California Hazard Communication_SC-158	PASS
Turner,Thomas	6/1/2017 16:53	California Hazard Communication_SC-158	PASS
Ure,Eric	3/19/2017 8:27	California Hazard Communication_SC-158	PASS
Uribe,Roman Gabriel	3/3/2017 8:49	California Hazard Communication_SC-158	PASS
Valasedes,Vasilios Ray	8/25/2017 10:26	California Hazard Communication_SC-158	PASS
Valdes-Camin,Cristobal	6/2/2017 11:02	California Hazard Communication_SC-158	PASS
Valdivia,Simon	5/6/2017 18:00	California Hazard Communication_SC-158	PASS
Valencia,Abraham Vincent	8/25/2017 14:56	California Hazard Communication_SC-158	PASS
Valenzuela,Thomas	4/17/2017 17:34	California Hazard Communication_SC-158	PASS
Van Zyl,Daniel Walter	5/30/2017 10:44	California Hazard Communication_SC-158	PASS
VanWhy,Arthur L	4/25/2017 16:23	California Hazard Communication_SC-158	PASS
Vargas,Joseph T	8/1/2017 23:40	California Hazard Communication_SC-158	PASS
Varma,Aditya	12/4/2017 12:04	California Hazard Communication_SC-158	PASS
Ventura,Eliseo Campos	9/28/2017 11:16	California Hazard Communication_SC-158	PASS
Vicencio,Phillip Edward	4/4/2017 15:07	California Hazard Communication_SC-158	PASS
Villa,Oliver	3/24/2017 9:08	California Hazard Communication_SC-158	PASS
Villa-Marroquin,Bruno	3/25/2017 14:20	California Hazard Communication_SC-158	PASS
Villarreal,Moises	9/5/2017 15:12	California Hazard Communication_SC-158	PASS
Virto,Johnny Ruben	3/21/2017 14:52	California Hazard Communication_SC-158	PASS
Vorce,Jason Lee	9/1/2017 23:48	California Hazard Communication_SC-158	PASS
Wagerer,Timothy J	7/30/2017 16:03	California Hazard Communication_SC-158	PASS
Wakatake,Marc T	6/30/2017 11:23	California Hazard Communication_SC-158	PASS
Walker,Ted W	5/25/2017 10:24	California Hazard Communication_SC-158	PASS

Walter,Jack Warren	6/8/2017 13:45	California Hazard Communication_SC-158	PASS
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Wang,Mei-Jen	6/30/2017 15:46	California Hazard Communication_SC-158	PASS
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Watson,Daniel James	3/25/2017 12:20	California Hazard Communication_SC-158	PASS
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West,Rodney R	9/1/2017 22:43	California Hazard Communication_SC-158	PASS
White,Glenn Christian	7/21/2017 1:44	California Hazard Communication_SC-158	PASS
White,Richard M	4/15/2017 13:17	California Hazard Communication_SC-158	PASS
White,Russell John	6/26/2017 11:02	California Hazard Communication_SC-158	PASS
Whittington,David B	5/17/2017 16:48	California Hazard Communication_SC-158	PASS
Williams Jr,Michael Anthony	6/12/2017 14:52	California Hazard Communication_SC-158	PASS
Willis,Maxwell John	5/16/2017 15:08	California Hazard Communication_SC-158	PASS
Wilson,J Dale	3/9/2017 13:25	California Hazard Communication_SC-158	PASS
Winslow,Everett L	2/5/2017 12:48	California Hazard Communication_SC-158	PASS
Woo,Dan Hoy	5/3/2017 19:47	California Hazard Communication_SC-158	PASS
Wood,Alexander G	4/18/2017 11:43	California Hazard Communication_SC-158	PASS
Wright,Bethany A	7/18/2017 16:10	California Hazard Communication_SC-158	PASS
Wright,Debra Marie	8/1/2017 19:38	California Hazard Communication_SC-158	PASS
Yarlagadda,Kiran	8/10/2017 12:25	California Hazard Communication_SC-158	PASS
Yarrish,Gary A	8/8/2017 15:23	California Hazard Communication_SC-158	PASS
Ybarra,Mark Arthur	7/22/2017 14:07	California Hazard Communication_SC-158	PASS
Yeung,Jimyau Jimmy	4/24/2017 12:57	California Hazard Communication_SC-158	PASS
Zylstra,Paul M	4/3/2017 9:55	California Hazard Communication_SC-158	PASS

440 Items in the report

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

MARK A. REFOWITZ
DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 E. DYER RD., #120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

Excellence
Integrity
Service

July 13, 2012

Diana Lang
Oxy USA, Inc.
20101 Goldenwest Street
Huntington Beach, CA 92648

Subject: Completion of Tank Removal Project

Re: Oxy USA – Helicopter Fueling System
20101 Goldenwest Street
Huntington Beach, CA 92648

Dear Ms. Lang:

This is in response to your request for a confirmation of the completion of the tank removal project. With the provision that the results for the soil samples collected on May 15, 2012 were accurate and representative of existing conditions, it is the position of this office that no significant soil contamination has occurred at the above noted facility location.

It should be pointed out that this letter does not relieve you of any responsibilities mandated under the California Health and Safety Code if additional or previously unidentified contamination is discovered at the subject site.

If you have any questions regarding this matter, please contact Geniece Higgins at (714) 433-6263.

Sincerely,

Anthony Martinez
Program Manager
Hazardous Materials Mitigation Section
Environmental Health

cc: Janaka Jayamaha, Worley Parsons (electronic copy)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	800-321-5479	NH051512001

5. Generator's Name and Mailing Address

OXY USA INC.
111 W. OCEAN BLVD. SUITE 800
LONG BEACH, CA 90802
(562) 624-3314

Generator's Phone:

Generator's Site Address (if different than mailing address)

HUNTINGTON BEACH
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

6. Transporter 1 Company Name: B & D COAST — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

AZUSA LAND RECLAMATION
1211 W. GLADSTONE
AZUSA, CA 91702
(626) 334-0719

U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS WASTE, SOLID (EMPTY FUEL TANKS WITH FIBERGLASS)	002	DF	2500	P	NONE
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

1. WEAR PROPER PPE
2. WASTE APPROVAL 609820CA
3. PO#T139609-008572-2034-01010101
4. EPA# 21000006073

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: MARK S DOMINO — Signature — Month: 5 — Day: 16 — Year: 12

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ed Pollock — Signature — Month: 5 — Day: 16 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Claudia L Felix — Signature — Month: 5 — Day: 16 — Year: 12

WASTE MANAGEMENT

Azusa Land Reclamation — Origin

1211 W. Gladstone St.
Azusa, CA, 91702
Ph: 626-334-0719

Ticket# 414738

Customer Name	WMSS OXY 609820CA WMSS / OXY	Carrier	B and D trucking B and D trucking
Ticket Date	05/16/2012	Vehicle#	02 Volume 18.0
Paysent Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000895
State Waste Code		Gen EPA ID	
Manifest	NH 051512001	VehicleLicense:	9E01579
Destination		Generator	144-HUNTINGTON BEACH FIELD OXY U
PO	1139609-008577-2034-01010101	Profile	609820CA (C&D~WMSS)

	Time	Scale	Scale Attendant	Inbound		
In	05/16/2012 15:07:02	Scale 2	CLAUDIA FELIX		Gross	43220 lb
Out	05/16/2012 15:39:34	Scale 2	CLAUDIA FELIX		Tare	39160 lb
					Net	4060 lb
					Tons	2.03

Comments POET 1139609-008577-2034-01010101

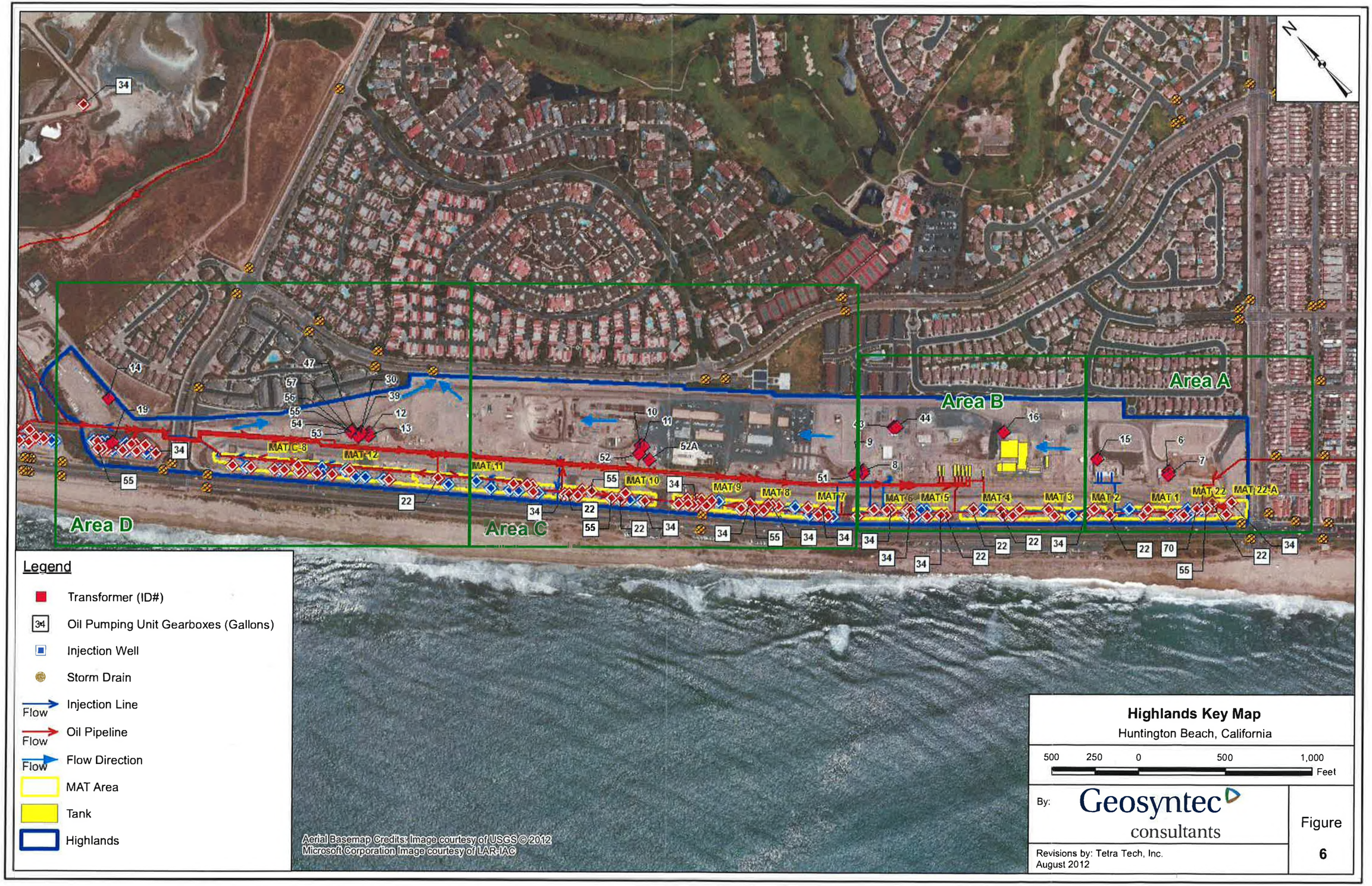
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
C&D-Each		4060	GAL	100	Each		Huntington

Total Tax

Total Ticket

Drivers Signature

403WM



Highlands Key Map

Huntington Beach, California

500 250 0 500 1,000 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure 6



Legend

- Transformer (ID#)
- Oil Well
- Oil Pumping Unit Gearboxes (Gallons) (34)
- Injection Well
- Storm Drain
- Mobile/Portable Container
- Injection Line (Flow)
- Oil Pipeline (Flow)
- Flow Direction (Flow)
- MAT Area
- Highlands

Aerial Basemap Credits: © 2012 Microsoft Corporation
Image courtesy of LAR-IAC

Highlands
MAT 1, MAT 2, MAT 22, and MAT 22-A
Huntington Beach, California

100 50 0 100 200 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure **6A**



Highlands
MAT 3 to MAT 6
Huntington Beach, California

100 50 0 100 200 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure **6B**



Legend

- Transformer (ID#)
- Oil Well
- Oil Pumping Unit Gearboxes (Gallons)
- Injection Well
- Storm Drain
- MAT Area
- Injection Line
- Oil Pipeline
- Flow Direction
- Highlands
- Mobile/Portable Container

Aerial Basemap Credits: © 2012 Microsoft Corporation
Image courtesy of LAR-IAC

Highlands
MAT 7 to MAT 11
Huntington Beach, California

150 75 0 150 300 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
6C



Highlands
MAT 12 and MAT C-8
Huntington Beach, California

150 75 0 150 300
Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure
6D



Example View of Variable Location Containers

Huntington Beach, California

150 75 0 150 300 Feet

By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure 7



Pipeline to Plattform Emmy

Huntington Beach, California

1,200 600 0 1,200 2,400 Feet

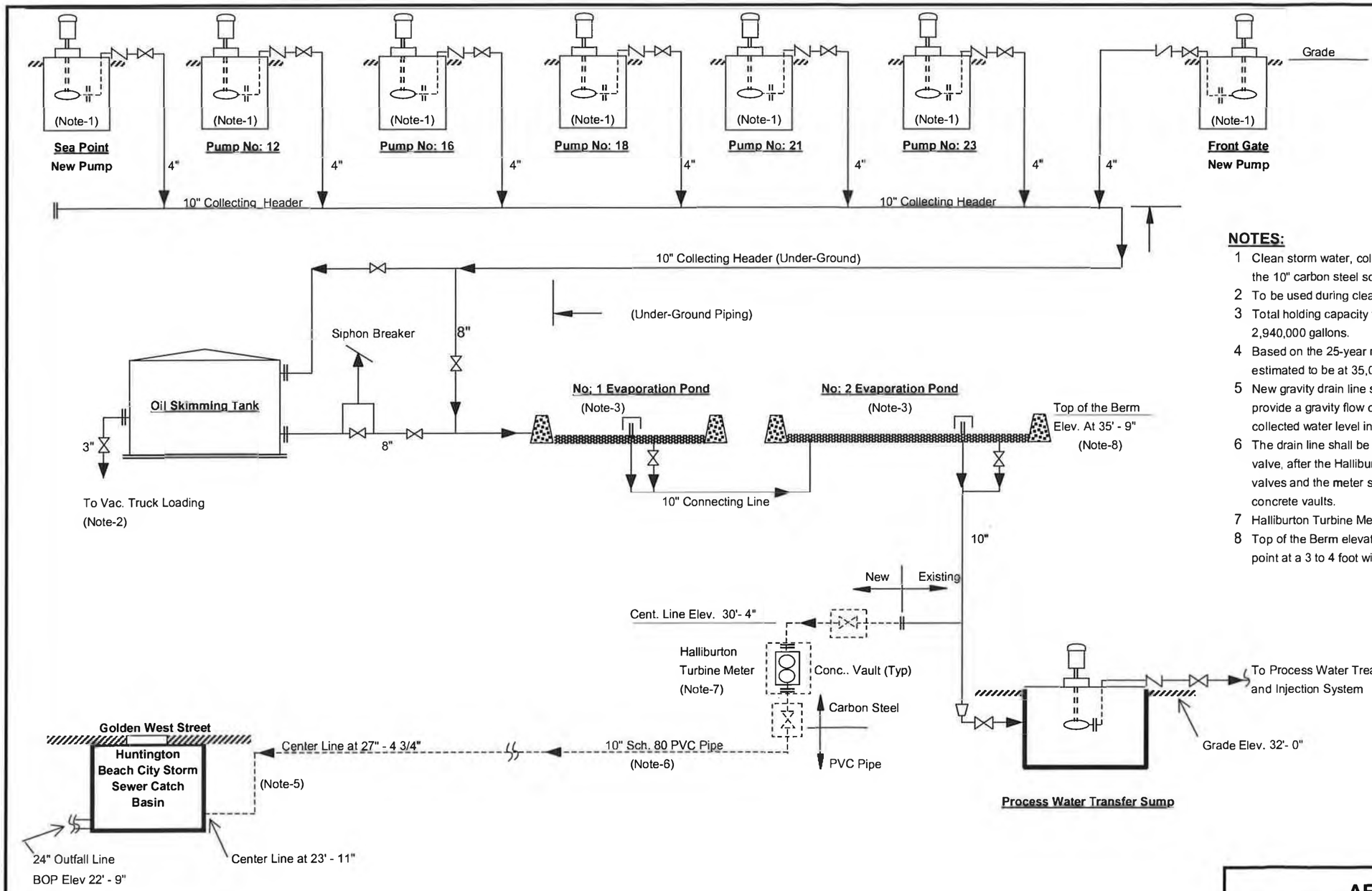
By: Geosyntec consultants

Revisions by: Tetra Tech, Inc.
August 2012

Figure **8**







NOTES:

1. Clean storm water, collected only in the designated sumps, is pumped to the 10" carbon steel sch-40 collecting header.
2. To be used during cleaning and maintenance operations.
3. Total holding capacity for both evaporation ponds is 70,000 bbls, or 2,940,000 gallons.
4. Based on the 25-year rain for the area, the total one-day storm water is estimated to be at 35,000 bbls/24 hour, or 1,470,000 gallons.
5. New gravity drain line shall be a 10" sch-80 pipe, which is estimated to provide a gravity flow capacity of about 450 to 880 gpm, depending on collected water level in the ponds.
6. The drain line shall be of PVC Sch-80 piping material beyond the second valve, after the Halliburton Turbine Meter. For protection purposes, both valves and the meter shall be installed inside of individual under-ground concrete vaults.
7. Halliburton Turbine Meter with mechanical flow analyzer.
8. Top of the Berm elevation varies from 35' - 0" to 35' - 9" with the lowest point at a 3 to 4 foot wide depression for storm water overflow.

AERA ENERGY LLC

Huntington Beach Highlands Area

Clean Storm Water Collection System Flow Diagram

Scale:	None		**Date:**	7/12/2002
By:	FM/TR	**DWG No: PD-01**	**Rev.**	0

MATCHLINE E. 1368'-0"

HUNTINGTON BEACH EASEMENT

12"WR-913-STD/K4-150# (323'-0")

TRUCK UNLOADING

OXY TK.

PLANT NORTH

TRUE NORTH

ELECT

TANK FARM

ENTRANCE

FENCE

EXISTING GENERATOR FOUNDATIONS

12"WR-913-STD/K4-150# (275'-0") EL 97'-6"

DETAIL # 2 DWG: 078-92-009AG

HOLD

90 003

90 002

12"WR-900-STD/K4-150# (20'-0")

12"WR-902-STD/K4-150#

12"WR-900-STD/K4-150# (565'-0") EL. 97'-6"

EXISTING LIGHTPOST (TYP 3)

5'-0"±

PIT

GUARD HOUSE

SEE DET. "J" DWG.# D78-92-009AG

FIRE DEPT. PUMPER STATION

PAVED ROAD

GOLDENWEST AVE

MATCHLINE N. 977'-0"

50'-0"

WALNUT ST.

240'-0"

MATCHLINE N. 62'-0" - DRAWING 078-92-009AE

PLC-4 (EXIST)

INJECTION PLANT 4 AREA

AWT-G

AWT-F

AWT-B

MCC-1

PIT-1

MCC BLDG

12"WR-901-STD/K4-150# (170'-0") EL 97'-6"

6"-150# RF BLD FLG

DETAIL #2

EXIST SUPT.

8"-150# RF BLIND FLANGE

8" EXIST.

90 010

90 008

90 006

(60'-0")

(75'-0")

(27'-0")

(100'-0")

(5'-6")

(35'-0")

12"WR-901-STD/K4-150# (EXIST)

8"-150# RF BLIND FLANGE

12"-150# RF BLIND FLANGE

90 009

90 007

90 004

12" FIREWATER SOURCE (EXIST)

MAIN PIPE CHASE

CUARDRAIL

BRIDGE

CUARDRAIL

6"WR-915-STD/K4-150#
SEE DETAILS "J", "K", & "L"
DWG: 078-92-009AH
CONTRACTOR TO DETERMINE DETAIL DIMENSIONS.

90 005

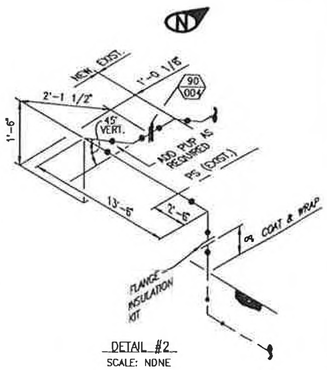
6"-150# BLD FLG

EXIST.

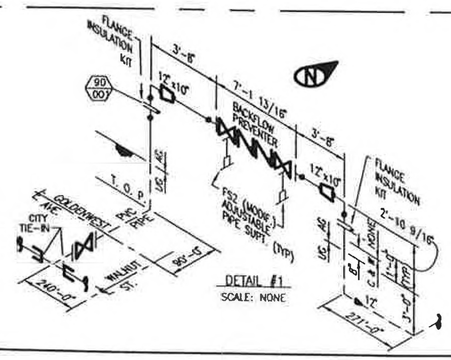
NEW

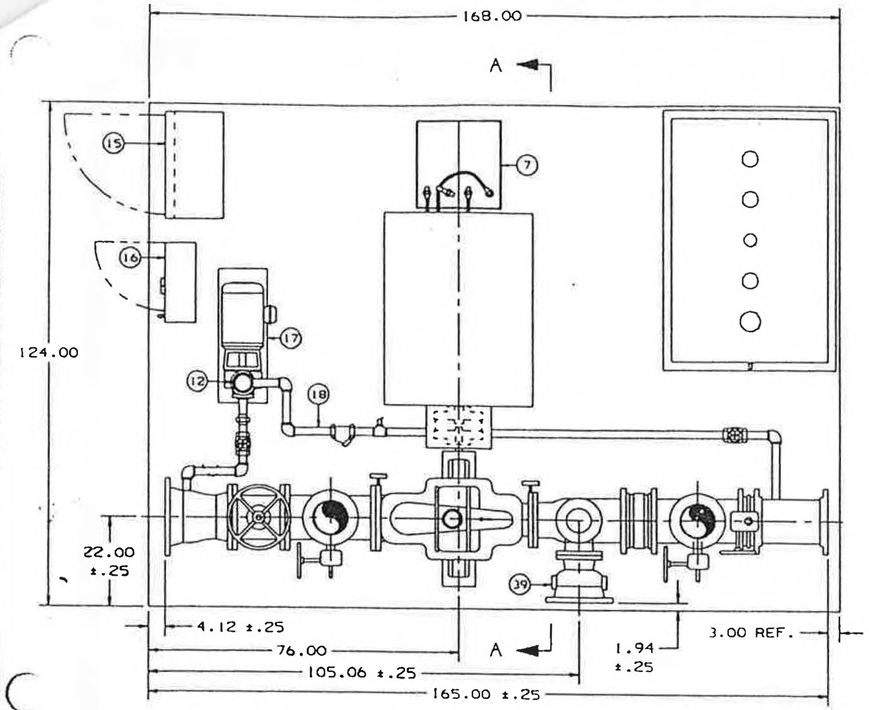
UNPAVED ROAD

SEE DETAIL #1 & PLAN DWG. "A" THIS DRAWING

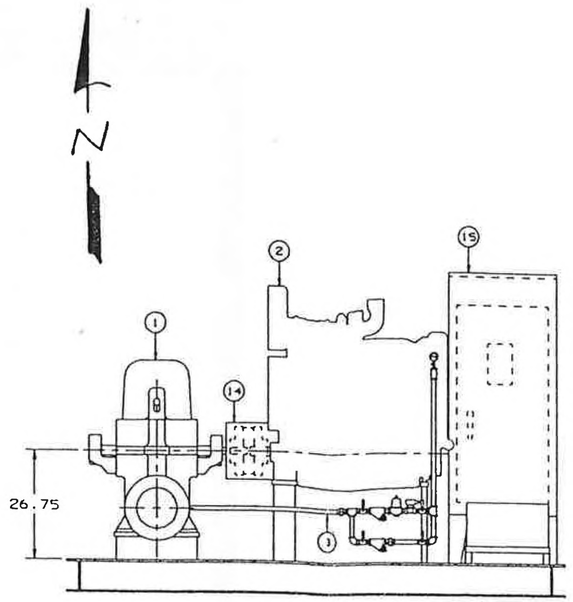


DETAIL #2
SCALE: NONE


FLANGE INSULATION KIT
3'-6"
1'-10"
7'-1 13/16"
BACKFLOW PREVENTER
3'-6"
1'-10"
FLANGE INSULATION KIT
2'-10 9/16"
90 001
T.O.P.
6'-0"
4" GOLDENWEST
CITY TIE-IN
4" AFC
WALNUT ST.
240'-0"
90'-0"
FS2 (MODIF.) ADJUSTABLE PIPE SUPT. (TYP)
1'-0"
1'-6"
1'-0"
1'-6"
1'-0"
1'-6"



PLAN VIEW



SECTION "A-A" LESS PIPING

ITEM NO.	REQ.	DESCRIPTION	PART NUMBER	APPROX. WEIGHT
1	1	10X8X20F FIRE PUMP (CW ROTATION)	1-5224-95262-02	1275
2	1	GM CLARKE DDFP-04AT DIESEL ENGINE (CW ROTATION)	52-432-283-123	2070
3	1	HEAT EXCHANGER LOOP 1 1/4"	52-431-194-801	100
4	1	300 GALLON FUEL TANK	52-260-002-802	320
5	1	FUEL SYSTEM ASSEMBLY	52-328-500-807	40
6	1	FUEL SAFETY RESERVOIR	52-360-031-501	317
7	1	BATTERY, RACK AND CABLE ASSEMBLY	52-236-272-801	265
8	1	FLEX EXHAUST CONNECTOR	52-328-465-503	10
9	1	6" MUFFLER, NELSON RES MODEL 41260-F	52-128-120-007	110
10	1	SUCTION GAUGE ASSEMBLY	52-236-232-802	2
11	1	DISCHARGE GAUGE ASSEMBLY	52-236-233-802	2
12	3	AUTOMATIC AIR RELEASE VALVE	52-126-407-004	5
13	1	CASING RELIEF VALVE 3/4"	52-126-401-001	5
14A	1	FALK COUPLING - PUMP HUB	52-219-926-363	8
14B	1	FALK COUPLING - COVER & GRID ASS'Y.	52-113-985-350	8
14C	1	COUPLING GUARD	52-237-686-808	12
15	1	FIRETROL FTA-1100 MAIN FIRE PUMP CONTROLLER	JM-103-110-109	350
16	1	FIRETROL FTA-500A JOCKEY PUMP CONTROLLER	JM-110-752-119	50
17	1	11/2x11/2x9 2000 SERIES JOCKEY PUMP	1-5227-95262-03	175
18	1	1 1/4 JOCKEY PUMP PIPING ASS'Y.	52-431-812-802	55
19	1	FABRICATED BASE ASSEMBLY	52-461-364-501	2307
20	2	PRESSURE SENSING LINE	52-236-404-501	40
21	1	12" 150# WELD NECK FLANGE	52-238-860-015	80
22	1	12x10 ECCENTRIC WELD REDUCER	CP-715-051-385	34
23	1	10" 150# WELD NECK FLANGE	52-238-860-014	52
24	1	10" KENNEDY OS&Y GATE VALVE W/ 125# FLG.	52-241-269-008	447
25	1	10" NIBCO WAFER STYLE BUTTERFLY VALVE	52-237-346-008	84
26	1	10" NIBCO WAFER STYLE CHECK VALVE	52-127-340-004	78
27	2	10" 150# SLIP-ON FLANGE	CP-719-361-040	86
28	1	10X8X6 C.I. TEE W/ 125# FLG.	52-236-178-026	210
29	2	10X10X8 C.I. TEE W/ 125# FLG.	52-236-178-030	450
30	1	10" SCHED. 40 PIPE X 16.12 LG.	50-419-269-016	55
31	2	8" 90° LONG RADIUS WELD ELBOW	CP-715-113-032	100
32	2	8" 150# SLIP-ON FLANGE	CP-719-361-032	60
33	2	8" NIBCO WAFER STYLE BUTTERFLY VALVE	52-237-346-007	90
34	2	8" SCHED. 40 PIPE X 29.06 LG.	50-419-289-029	139
35	1	8" SCHED. 40 PIPE X 40.00 LG.	50-419-289-040	96
36	1	8" SCHED. 40 PIPE X 16.88 LG.	50-419-289-017	41
37	1	8" GERAND FLOW METER MODEL K-2000-8 B.W.	52-238-642-014	30
38	1	6" WATTS MAIN RELIEF VALVE W/ 125# FLG.	52-126-534-003	120
39	1	6X10 CLOSED WASTE CONE	52-430-737-505	98
40	1	FLOW SWITCH MODEL FS4-3 (MUTUAL MFG)	GV-439-526-201	2
41	1	6 X 5 90° LONG RADIUS ELBOW W/ 125# FLG.	52-237-324-013	75
97	1	MISC. COMPONENETS	52-160-230-801	-
98	1	WIRING DIAGRAM (ENGINE TO CONTROLLER)	52-329-241-802	-
99	1	WIRING DIAGRAM (JOCKEY PUMP TO CONTROLLER)	52-329-240-802	-
		APPROX. TOTAL WEIGHT		9953

SM1	MG	4/14/94
01	MG	4/15/94

ITEM 9 WAS 5" MUFFLER ADDED ITEM 41 PER CUST. REQUEST

02	MG	6/6/94

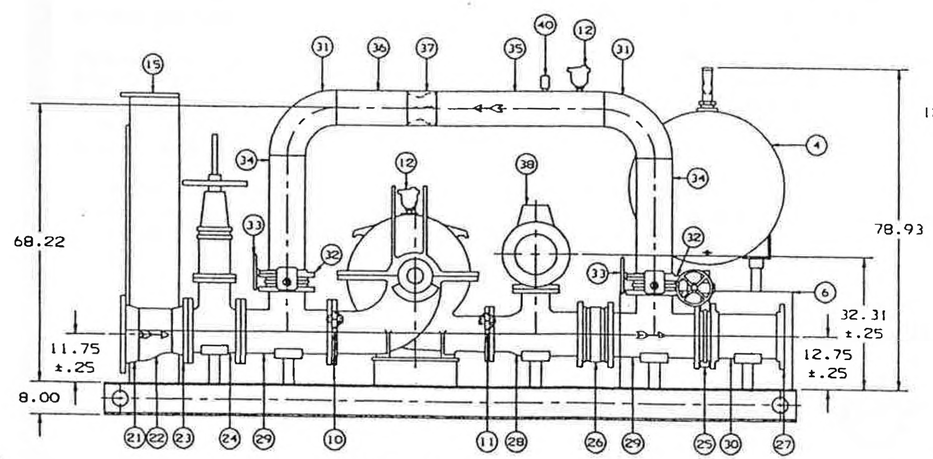
NOTE 12 (PIPING DRAING) WAS REMOVED. DRAWING UPDATED PER CUSTOMER REQUEST.

03	MG	7/20/94

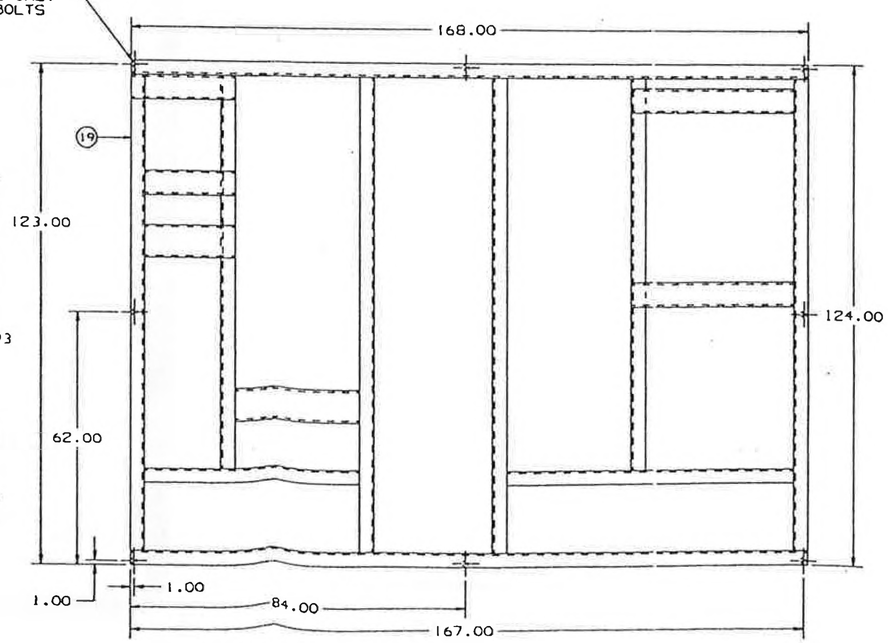
FLUOR DANIEL

A - PROCEED

AUTHORIZATION TO PROCEED DOES NOT RELIEVE CONTRACTOR/VENDOR OF RESPONSIBILITY OR LIABILITY UNDER THE CONTRACT/PURCHASE ORDER



ELEVATION VIEW



BASE DETAIL / ANCHOR BOLT LOCATION

H.B. GAS PROCESSING PROJECT

20-Sep-94

FLUOR DANIEL Cost'l No.: 424601

36180-2-1

TAG/ITEM NO.: ME-100

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL CONTROLS TO BE PRE-WIRED BY ITT A-C PUMP.
3. THE FOLLOWING ITEMS ARE SUPPLIED BY ITT A-C PUMP BUT ARE NOT SHOWN: 5,8,9,13,20 & 41.
4. THE FOLLOWING ITEMS ARE SUPPLIED BY ITT A-C PUMP, SHIPPED LOOSE AND FIELD MOUNTED BY OTHERS: 8,9 & 41.
5. CUSTOMER PIPING MUST BE SUPPORTED NEAR ALL INTERFACE CONNECTIONS TO ELIMINATE STRAIN.
6. ALL FLANGES ARE 125# F.F. PER ANSI B16.1 STANDARDS UNLESS OTHERWISE SPECIFIED.
7. UNLESS SPECIFIED, DIMENSIONS ARE NOMINAL AND ARE SUBJECT TO NORMAL CONSTRUCTION TOLERANCES.
8. REFER TO WIRING DIAGRAM: (SEE ITEM 98 & 99)
9. FOUNDATION BOLTS ARE NOT SUPPLIED.
10. ALL STRUCTURAL WELDS TO BE PER ACP 2-9 CLASS 3.
11. ALL PRESSURE PIPING WELDS TO BE PER APPLICABLE ITT A-C PUMP WELD PROCESS SPECIFICATIONS (WP'S) AS INDICATED ON DWG. 52-329-750.

ITT A-C Pump

A unit of ITT Corporation

THIS DOCUMENT IS THE PROPERTY OF ITT A-C PUMP. IT IS ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, OR COPIED, OR DISCLOSED IN WHOLE OR IN PART, OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION.

UNLESS OTHERWISE SPECIFIED:
1-PLACE DEC ± | 2-PLACE DEC ± | 3-PLACE DEC ± | ANGULAR ±.5°

FOR TOLERANCES NO SPECIFIED SEE SCD-SEALING SHOP PRACTICE STANDARDS

MACHINED SURFACE TEXTURE √

DR.	MG	4/14/94
CH.	MG	4/14/94
APP.	KRW	7/11/94

SIMILAR TO: XX-XXX-XXX

SCALE .055 | SHEET 1OF1

NAME: FIRE PUMP PACKAGE 10XBX20F W/ DDFP-04AT 2000 GPM, 120 PSI 2100 RPM

THIRD ANGLE PROJECTION | ORDER NO. 95262-01

PART NO. 52-461-362 CAD

PRODUCTION FILE 20
060155

CalResources LLC
5060 California Avenue
P.O. Box 11164
Bakersfield, CA 93389-1164
(805) 326-5000

September 11, 1995

Mr. Kamron Saremi
Sanitary Engineering Associate
California Regional Water Quality Control Board
Santa Ana Region
2010 Iowa Avenue, Suite 100
Riverside, CA 92507-2409

Dear Mr. Saremi:

SUBJECT: GAS PLANT ADJACENT TO BOLSA CHICA WETLANDS
HUNTINGTON BEACH, ORANGE COUNTY

Please find attached our 2nd quarter 1995 Groundwater Monitoring and Project Status Report for the CalResources Gas Plant at Huntington Beach, CA. The groundwater plume remains under control and confined to the site.

Plant demolition is complete. Interim remediation activities consisting of biotreatment of surficial oil-impacted soils is proceeding.

Sincerely,

Sub Sen
Staff Environmental Engineer
HS&E - Environmental

SS:pj

Attachments

GM515301.WPD

bcc: (w/Attachments)
Mr. Richard Grunbaum
City of Huntington Beach
Fire Department
200 Main Street
Huntington Beach, CA 92648

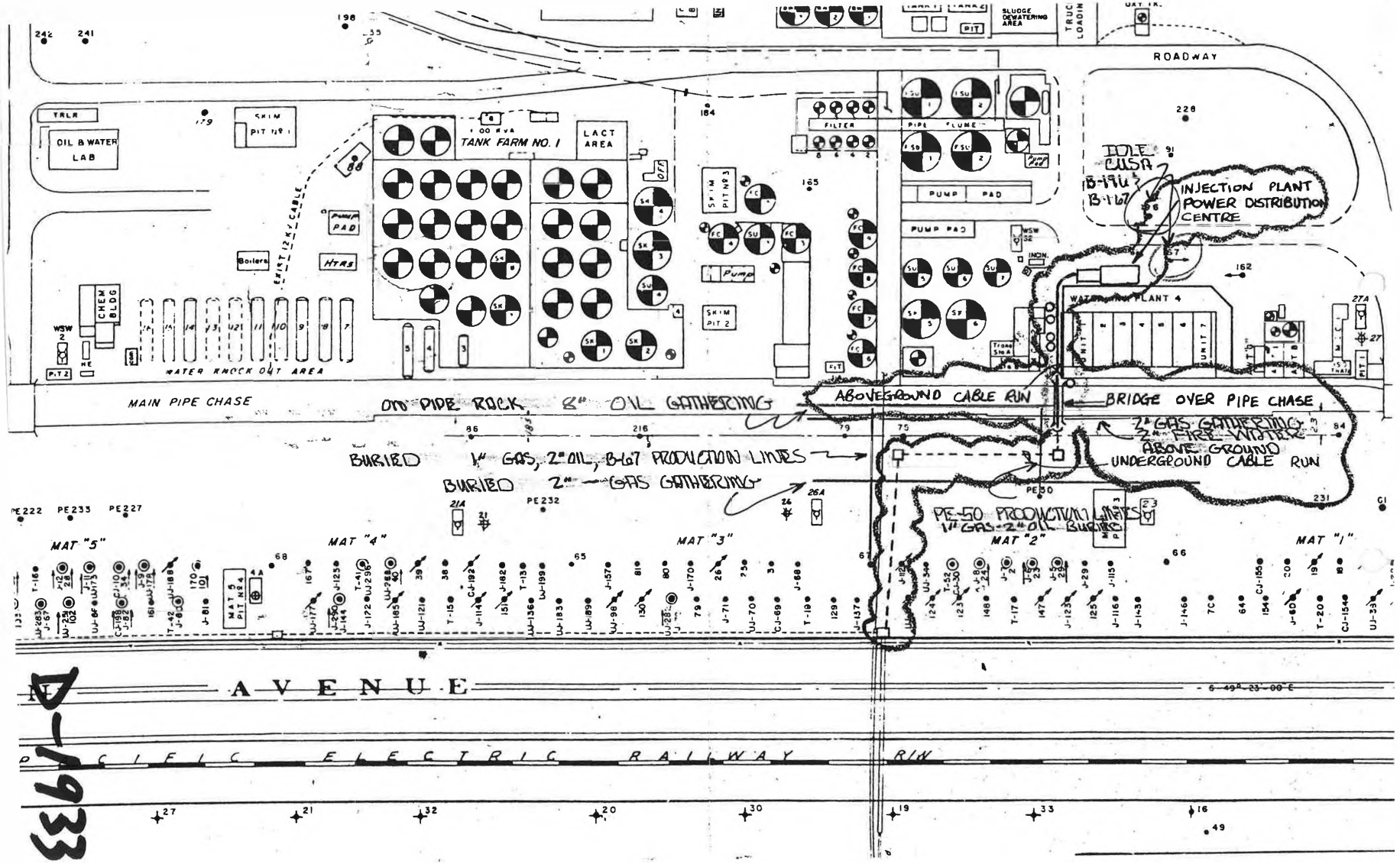
Mr. Luis Lodrigueza
Hazardous Materials Management Section
Environmental Health Division
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

Mr. Duc Nguyen
Environmental Management Agency
Environmental Resources Division
P.O. Box 4048
Santa Ana, CA 92702-4048

Mr. A. S. Kennedy
Sr. Land Representative
Land Department
CalResources LLC
SPT 644

(w/out Attachments)
Mr. Bill Henry
Park Environmental Services
5100 E. Hunter Avenue
Anaheim, CA 92807

Mr. John R. Limousin
Field Superintendent
CalResources LLC
L. A. Basin - Beta Production Office


ROADWAY
TANK FARM NO. 1
LACT AREA
OIL & WATER LAB
SKIM PIT NO. 1
SKIM PIT NO. 2
SKIM PIT NO. 3
FILTER
PIPE FLUME
PUMP PAD
Boilers
HTRS
CHEM BLDG
WATER KNOCK OUT AREA
EXIST 12 KV CABLE
INJECTION PLANT POWER DISTRIBUTION CENTRE
IDLE CUSA
B-194
B-167
WATER PLANT 4
MAIN PIPE CHASE
OLD PIPE RACK
8" OIL GATHERING
ABOVEGROUND CABLE RUN
BRIDGE OVER PIPE CHASE
2" GAS, GAUGE LINE, 2" FIRE WATER
ABOVE GROUND
UNDERGROUND CABLE RUN
BURIED 1" GAS, 2" OIL, B-167 PRODUCTION LINES
BURIED 2" GAS GATHERING
PE-50 PRODUCTION LINES
1" GAS-2" OIL BURIED
MAT "5"
MAT "4"
MAT "3"
MAT "2"
MAT "1"
AVENUE
PACIFIC ELECTRIC RAILWAY R/W

B-1933

OFFICE

Trlr.

AUTOMOTIVE REPAIR SHOP

BLDG.

OIL & WATER LAB

MUD MIXING AREA

STEAM GENERATOR FAC AREA I

A.W.T. "D"

T. STA. D

STEAM FAC

A.W.T. "C"

CHEM BLDG

WATER

MAIN PIPE (MARKED S-34)

15 KV UNDERGROUND DUCT BANK

MAT 8 PIT Nº 7

MAT "8"

MAT "7"

MAT "6"

MAT "5"

MAT 6 PIT 5

CHEM PAD

MAT 8 PIT

A.W.T.

8-254

8-253

PE222

PE233

PE227

O C E A N

P A C I F I C

SAM	69	
C.L.A.	68	
C.L.A.	67	
C.L.A.	66	
P.J.C.	65	
P.J.C	64	
P.J.C.	63	
C.L.A	62	
C.L.A.	61	
SM	60	
CEM	59	
CLA	58	
CEM	57	
CEM	56	
CLA	55	
CLA	54	
BW	53	
CLA	52	
BW	51	
BW	50	

NEW PIPING

APPROVED + EXISTING PIPING

--- BURIED

LEGEND: ▭ = EXISTING FACILITIES

4 3 9 10 S. R. 11 W.

SELECT

CITY OF HUNTINGTON BEACH
COUNTY OF ORANGE

425 M.C.O.

EASEMENT LINE

TECH. BLDG

CAUSTIC FLOOD PILOT PLANT

WATER INJECTION PLANT 3

UNIT 1 2 3

CONT BLDG

MCC

#29 MCC

T-4

T-8

CHEMICAL TREATING

CHEM. STOR PAD

CHEM ST

PIT #8

Area For Pipe Chase Expansion

B O L S A "B" L'S E

MAT B-15

MAT B-1

MAT PIT #16

BOLSA 31

Prop A

Prop B

CH #8

PROP 25

MAT C-8 PIT #13

MAT "C-8"

MAT 12 W PIT #14

104

107

60

O C E A N

P A C I F I C

P A C I F

EXISTING

NEW

--- ⇒ BURIED

N47° 04' 00" W

N48° 18' 20" W

H U N T I N G T O N B E A C H

HUNTINGTON BEACH EASEMENT LINE

12" F.G. W.W. LINE

20" TRANSITE W.W. LINE

OAKITE

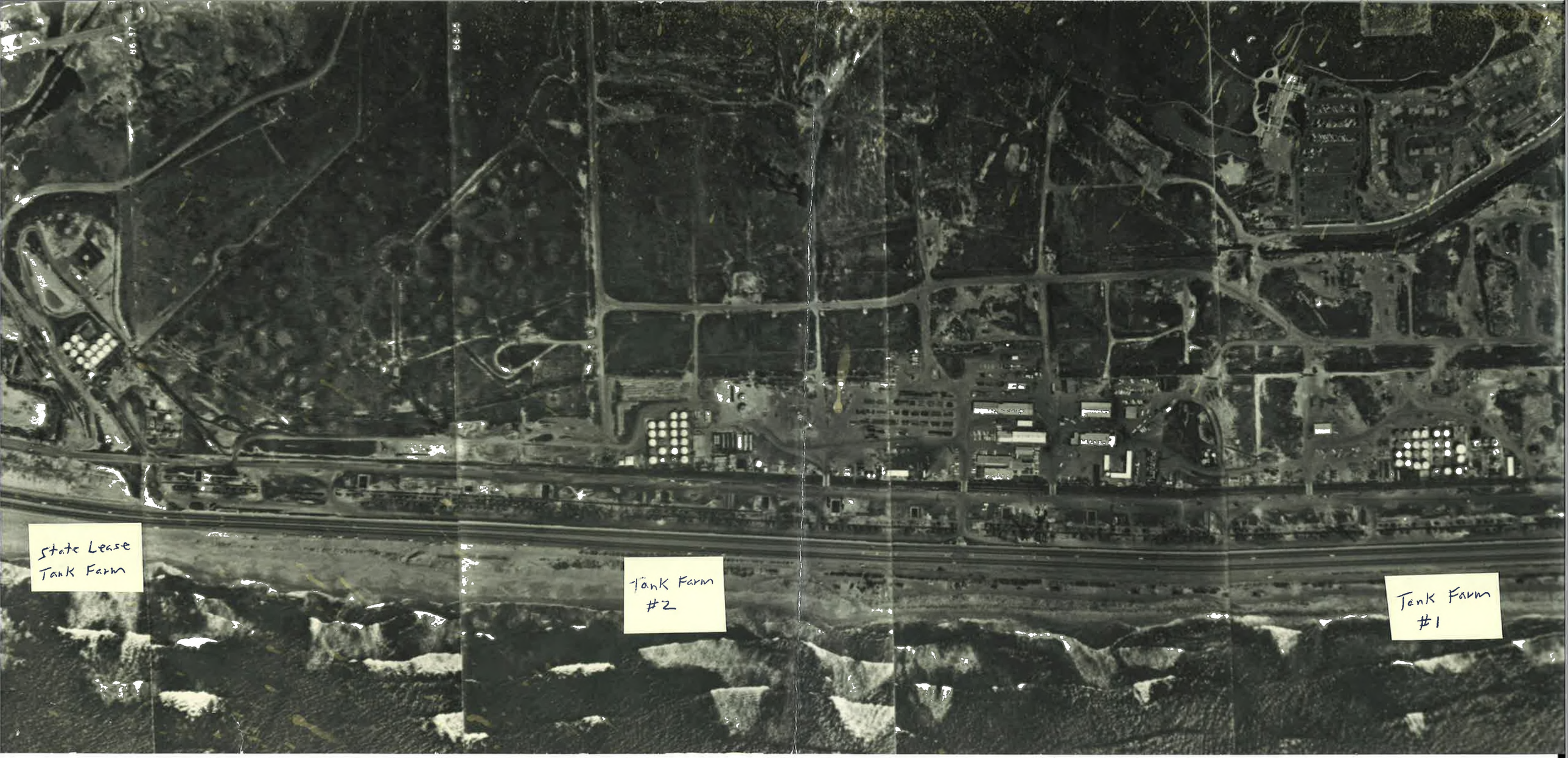
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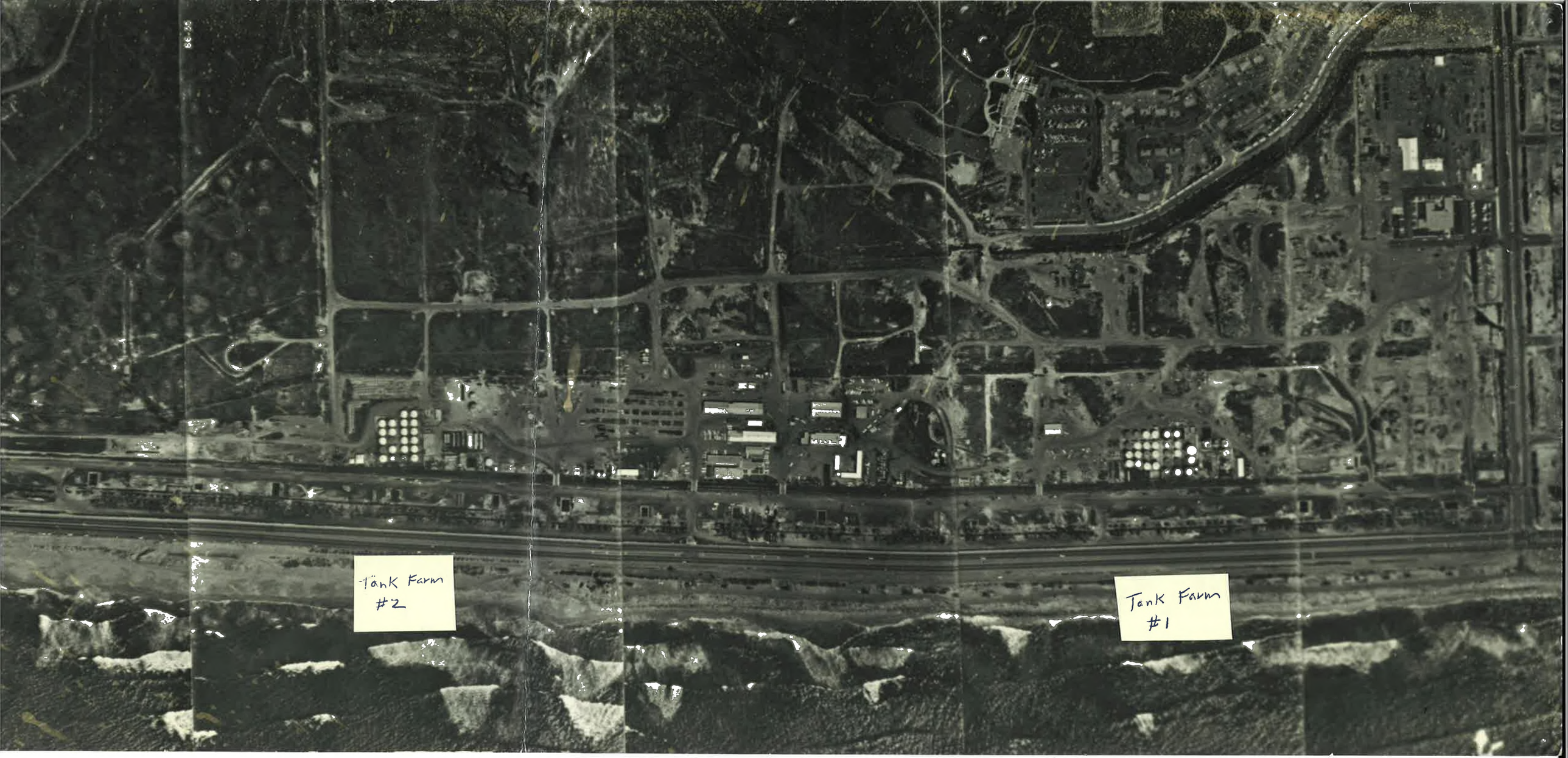
163

44

191

119


State Lease
Tank Farm
Tank Farm
#2
Tank Farm
#1


Tank Farm
#2
Tank Farm
#1

APPENDIX E

HISTORICAL RESOURCES

CRC Huntington Beach

20101 Goldenwest Street

Huntington Beach, CA 92648

Inquiry Number: 8040226.8

July 08, 2025

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

07/08/25

Site Name:

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648
EDR Inquiry # 8040226.8

Client Name:

Langan
515 South Flower Street, Suite 1060
Los Angeles, CA 90071
Contact: Katherine Thomas

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2022	1"=750'	Flight Year: 2022	USDA/NAIP
2018	1"=750'	Flight Year: 2018	USDA/NAIP
2014	1"=750'	Flight Year: 2014	USDA/NAIP
2010	1"=750'	Flight Year: 2010	USDA/NAIP
2005	1"=750'	Flight Year: 2005	USDA/NAIP
2002	1"=750'	Flight Year: 2002	USGS/DOQQ
1994	1"=750'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=750'	Flight Date: September 06, 1990	USDA
1988	1"=750'	Flight Date: September 13, 1988	USDA
1977	1"=750'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1963	1"=750'	Flight Date: February 28, 1963	USGS
1953	1"=750'	Flight Date: February 26, 1953	USDA
1947	1"=750'	Flight Date: June 07, 1947	FAIR
1938	1"=750'	Flight Date: May 23, 1938	USDA
1928	1"=750'	Flight Date: January 01, 1928	FAIR

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INQUIRY #: 8040226.8

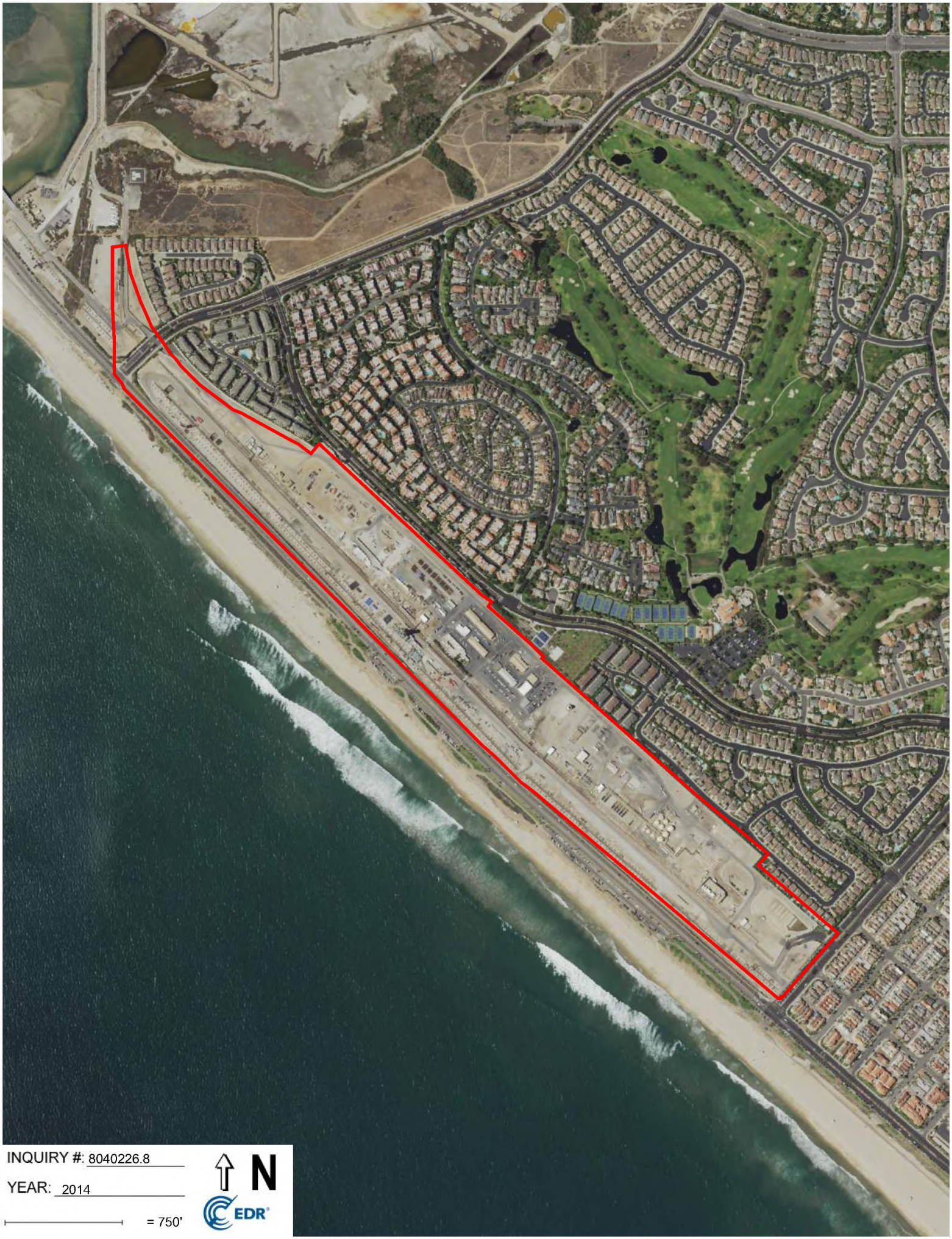
YEAR: 2022

= 750'

N

EDR


INQUIRY #: 8040226.8
YEAR: 2018
= 750'
N
EDR


INQUIRY #: 8040226.8
YEAR: 2014
= 750'
N
EDR


INQUIRY #: 8040226.8
YEAR: 2010
= 750'
N
EDR





INQUIRY #: 8040226.8

YEAR: 2005

= 750'

N

EDR



INQUIRY #: 8040226.8

YEAR: 2002

= 750'

N

EDR


INQUIRY #: 8040226.8
YEAR: 1994
= 750'
N
EDR


INQUIRY #: 8040226.8
YEAR: 1990
= 750'
N
EDR



INQUIRY #: 8040226.8

YEAR: 1988

= 750'

N

EDR



INQUIRY #: 8040226.8

YEAR: 1977

= 750'

N

EDR



INQUIRY #: 8040226.8

YEAR: 1963

= 750'

N

EDR



INQUIRY #: 8040226.8

YEAR: 1953

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 8040226.8
YEAR: 1947
= 750'
N
EDR



INQUIRY #: 8040226.8

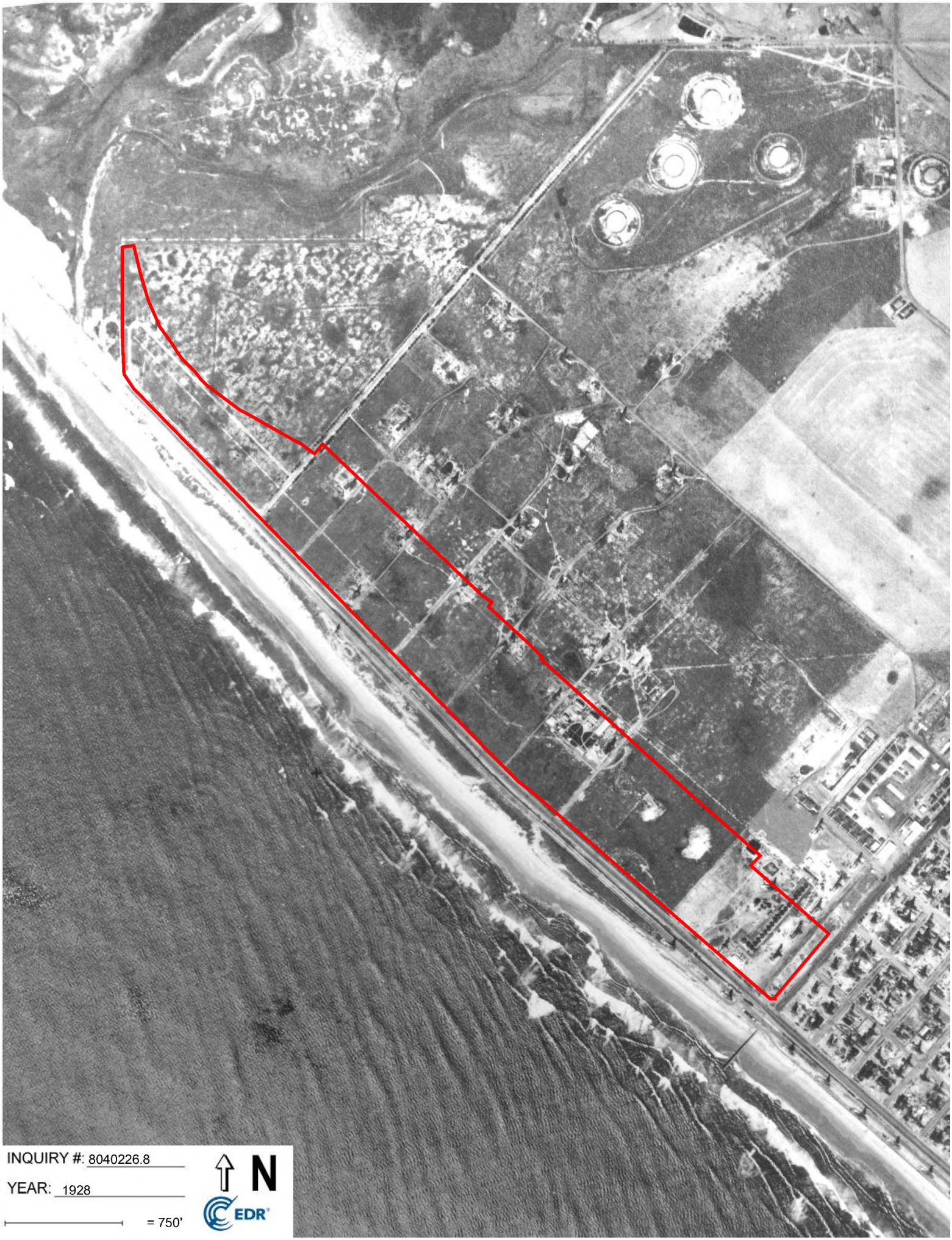
YEAR: 1938

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



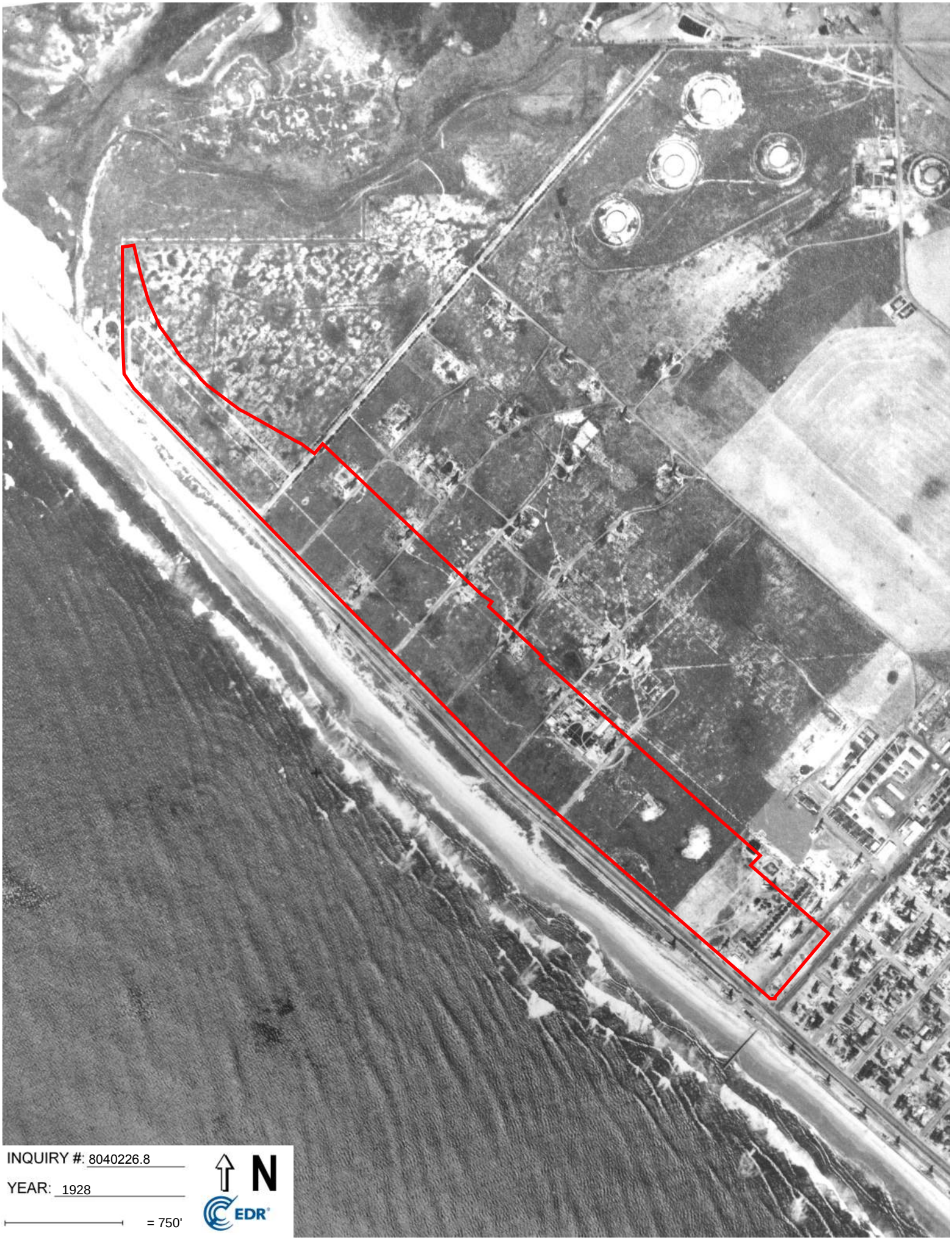
INQUIRY #: 8040226.8

YEAR: 1928

= 750'

N

EDR



INQUIRY #: 8040226.8

YEAR: 1928

= 750'

N

EDR

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648

Inquiry Number: 8040226.5
July 11, 2025

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2022	☑	☐	EDR Digital Archive
2020	☑	☐	EDR Digital Archive
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
1999	☑	☐	Cole Information
1994	☑	☐	Cole Information
1992	☑	☐	Cole Information
1987	☑	☐	Haines Criss-Cross Directory
1982	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1973	☑	☐	Haines Criss-Cross Directory
1968	☑	☐	General Telephone Co
1964	☑	☐	General Telephone Co

FINDINGS

TARGET PROPERTY STREET

20101 Goldenwest Street
Huntington Beach, CA 92648

Year	*CD Image*	*Source*
GOLDENWEST ST		
2022	pg A2	EDR Digital Archive
2020	pg A6	EDR Digital Archive
2014	pg A8	Cole Information
2010	pg A9	Cole Information
2005	pg A10	Cole Information
1999	pg A11	Cole Information
1994	pg A12	Cole Information
1992	pg A13	Cole Information
1987	pg A14	Haines Criss-Cross Directory
1982	pg A15	Haines Criss-Cross Directory
1982	pg A16	Haines Criss-Cross Directory
1976	pg A17	Haines Criss-Cross Directory
1973	pg A18	Haines Criss-Cross Directory
1968	pg A19	General Telephone Co
1964	pg A20	General Telephone Co

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

GOLDENWEST ST 2022

18851	AMERICAN LANDSCAPE SUPPLY INC
	BRINDLES BIRD & ANIMAL SANCTUARY
	PET HOSPITAL IN HUNTINGTON BEACH CA
	R I BRINDLES
	RONALD BRINDLE
	RONALD I BRINDLE
	SOUTH COAST SUPPLY
19021	ANESTHESIA CONSULTANTS
	BEACH CITIES REAL ESTATE
	BUILDER SERVICES INC
	CARTER ANANDAH
	DARLENE EHRENKRANZ
	EDIE L CUNEO
	EMERALD COAST INVESTMENTS
	ERIKA ILER
	FIRST TEAM COMMERCIAL
	FIRST TEAM REAL ESTATE
	FIRST TEAM REAL ESTATE INC
	HB LIFE INC
	HCI HAIR RESTORATION OF TAMPA
	HOLLY CRAMERUS
	JEFF ARCURI
	JIM CERTO
	KAREN DAVIDSON
	KAREN MARZEC
	KEITH JORGENSEN
	MARK JAMES
	MATTHEW BROWN
	MCDEVITT SOTHEBYS INTERNATI
	MELINDA J HAYES
	MICHAEL MORTRUD
	PAUL COTTEN
	PIERRE CONNOR
	POINTS NOR EAST PROPERTIES
	REALTY ONE GROUP INC
	REMAX AT MALLARD CREEK
	ROCKFIELD REALTY GROUP
	ROSANNE FLYNN
	ROYAL COWBOY
	SCOTT CLEGG
	SH
	STEPHANIE VAIL
	STEPHEN MCCANN
	STUDIO VOCALE
	TOM MCCLURE
	UNIVERSITY OF NOTRE DAME
	WATSON REALTY CORP
	ZIPREALTY INC
19035	ERICA MENDAS
	EVERBOWL

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

GOLDENWEST ST 2022 (Cont'd)

19035	JOEL BURKHAULTER
	RUBIOS COASTAL GRILL
19051	1ST COASTAL REAL ESTATE
	ADVANCE SYSTEM KNIGHTS LLC
	AIM MAIL CENTER 64
	AMEKA AQUATICS
	ANDREW SCHWAB
	ANGELO RANKIN
	ANGELOS BEAUTY SUPPLY & SALON
	ANGIE ACOSTA
	BEACH REHAB CENTER
	BEAUTY SOCIETY
	BURDICK CONSULTING INC
	DAVID BURDICK
	DENNIS NELSON
	DIRECT DISPOSAL INC
	FRANZISKA SPRITZLER
	FREIGHTSAVER.COM
	GILS BAIL BONDS
	GREEN OFFICE CLEANING
	HAPPY NAIL OF HUNTINGTON BEACH
	HOLLYWOOD PRODUCTS, INC
	HSR CONSTRUCTION
	JENNIFER DELACHICA
	JENNY PHAM
	JULIE CAMPBELL
	JULIE CAMPBELL.BIZ
	JULIE STEIN
	KATHLEEN KRAMER
	KHANHTRANG LE
	KW REAL ESTATE
	LORI EDWARDS
	LOW CARB DIETITIAN LLC
	MIKE HAMM
	MIKE MCCORMICK
	NATIONWIDE BACKGROUND CHECKS
	PARADISE HERBS INC
	PARDISE HERBS INC
	PAUL BRYANT
	PAZANTI HOME MORTGAGE
	PENINSULA OPTOMETRY
	PETER DIVONA
	PINNAZ GULAZS
	POLLYANNA MCCORMICK
	RENE GARCIA
	RPM MORTGAGE
	SACHA POLAKOFF
	SANG KIM
	SCOTT PIEPMEYER
	SPINDLE & SIN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

GOLDENWEST ST 2022 (Cont'd)

19051	STACI NAKABE
	SUSIE PARTY
	SUSIEPARTY.COM
	TOM HESS
	TOP OF THE FOOD CHAIN INC
	TRACE REPLACE
	TRACEREPLACE
	WEST COAST PROCESSORS LLC
	WICKEDEYE PRODUCT
	XDG
	ZYPHON MEDIA INC
19052	JB WHITNEY & ASSOCIATES
	JULIE BEER
19062	BIXBY PLAZA
	BIXBY PLAZA CARPETS INC
	JAMES JUNG
	LUIS GAMBOA
19081	BRETT HANSEN
	RALPHS GROCERY CO
	ROBERT BRUCH
	STARBUCKS
	WELLS FARGO
19101	PLANET FITNESS
19125	AMY NELSON
	CARLS JR
19240	UNION BANK
19270	PATRICIA K YOUNG
	PATTIS PRESCHOOL
19300	BANK OF AMERICA
	RYAN SHEEHAN
19330	CHERYL ROSTAN
	FRANCESCA FOLLICO
	LA FITNESS
	PERSPIRE SAUNA STUDIO
	THE HYDRATION ROOM HUNTINGTON BEACH
19370	BRITTNI MACKLEY
	JAMIE BERNAL
	JONATHANS COASTAL LIVING
	JONATHONS COASTAL LIVING
	PETSMART
19440	ADVANCED REAL ESTATE TEAMS
	AGI2002
	BARBARA GRIMES
	BERNIE FISH
	BILL DAQUILA
	BOB STENSON
	COLDWELL BANKER
	COLDWELL BANKER GRUPE
	CORRIGAN PAUL, III ATTORNEY
	DEAN ZITKO

GOLDENWEST ST 2022 (Cont'd)

19440	DICKERSON MORTGAGE
	DIRT BUSTERS
	DON BAEHR
	DONNA HORN
	DOREEN HUNTER
	GREYLOCK REALTY
	HAROLD MAYO
	HUNTER INTERIORS
	JEAN NAGY
	JOYCE BAKER
	LARISA BIRCH
	LIST REALTY.INC
	MARIA URDANETA
	MICHAEL CALL
	MICHAEL CALL REALTY
	MIKE NOBLE
	PATRICK CORRIGAN
	PAUL III
	PAUL VANCE
	PENNY DICKERSON
	PRISCILLA MURRAY
	REALTY EXECUTIVES SOUTHERN AZ
	SANDI MUNOZ
	SHEILA SMITH
	SRINIVAS REPALA
	STAR REAL ESTATE
	STAR REAL ESTATE SEACLIFF
	THE REAL ESTATE AGENCY
	UNITED REALTY INC
	WELMARK & ASSOCIATES
	WEST COAST ESCROW COMPANY
19492	BROOKE BUSHMAN
	CHEVRON
20101	AERA ENERGY LLC
	AERA ENERGY, LLC
	CRC SERVICES LLC
	DIANA LANG
	DWAYNE ZIEGELER
	JOE KANAAN
	MRC GLOBAL
	OCCIDENTAL PETROLEUM

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

GOLDENWEST ST 2020

18851	BRINDLES ZEE LIGHT
	RONALD BRINDLE
	SOUTH COAST SUPPLIES
19021	BEACH CITIES REAL ESTATE
	CENTURY 21 CREATIVE REALTY
	CURRAN-MCLEOD CONSULT ENGRS
	DUYA PARR REALTY
	ESCENA PROPERTIES LLC
	FIRST TEAM REAL ESTATE
	HELEN HUTCHINS
	HUNTINGTON BEACH OCEANFRONT
	JODYCLEGG
	MASTORAKIS GROUP
19025	HUNTINGTON BEACH CARPET CLEAN
19035	EVERBOWL
	RUBIO'S COASTAL GRILL
	ZPIZZA
19051	7K PARTNERS
	BANYAN MOON INC
	BOSTON BUDDIES
	CEBI LOGISTICS
	CLASSIC SPEED SHOP LLC
	CLEMMENCY CORP
	CORE LIFE CONSULTANTS
	DREAM STRONG FITNESS
	GREEN OFFICE CLEANING
	GREEN SPOT SEASIDE CLEANERS
	HAIR THEORY
	HAPPY NAIL-HUNTINGTON BEACH
	JGWATER LLC
	JULIECAMPBELL.BIZ
	KEEP DOGGIE SAFE
	MOXY ROXY
	NATIONAL FINANCIAL LLC
	NORTH AMERICAN SEA FARMS INC
	PENINSULA DENTISTRY-ORTHDNTCS
	PENINSULA ORTHODONTICS
	PERSONAL TRAINER HB MARKETING
	PREFERRED PAINTING
	PSEUDONYM HOLDINGS
	REAL RESULTS REALTY
	ROCK PROPERTIES
	SAG TALENT
	SUBWAY
	SUNNY FRESH CLEANERS
	UTICA GARAGE DOORS & GATES
	WATER WORKS YACHT SVC
	WEST COAST PROCESSORS LLC
19062	BIXBY PLAZA CARPETS
19081	ATM

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

GOLDENWEST ST 2020 (Cont'd)

19081	BLUE RHINO
	COINSTAR
	KEY ME
	RALPHS
	RALPHS PHARMACY
	REDBOX
	STARBUCKS
	WESTERN UNION AGENT LOCATION
19101	PLANET FITNESS
19125	CARL'S JR/GREEN BURRITO
19240	ATM
	UNION BANK
19270	PATTI'S PRESCHOOL
19300	ATM
	BANK OF AMERICA
	BANK OF AMERICA MORTGAGE
19330	MD HYDRATION
	PERSPIRE SAUNA STUDIO
19350	MC DONALD'S
19370	PETSMART
19440	BLANCHARD & CALHOUN REAL EST
	COLDWELL BANKER REALTY
	JOHN C ALLEN RIDE SHARE SVC
	THEMICHAELCALLTEAM
	TREEWATER CORP
19492	ATM
	BLUE RHINO
	G & M OIL

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 2014

18851	BRINDLES ZEE LIGHT
	SOUTH COAST SUPPLY
19021	FIRST TEAM REAL ESTATE
19035	LOCKSMITH
	RUBIOS
	Z PIZZA
19051	ADVANCE SYSTEM KNIGHTS LLC
	AGUIRRE, JOSE L
	ANGELOS BEAUTY SUPPLY & SALON
	BEACH, RICHARD L
	BEER, JULIE A
	BENABOU, MARK M
	BURKE, LEE S
	FRYER, DOUGLAS
	GULDAS, METIN
	HAPPY NAIL OF HUNTINGTON BEACH
	KUMAR, ANEETA
	OBRIEN, MICHAEL S
	PANNELL, TRITY
	PAZANTI HOME MORTGAGE
	PENINSULA DENTISTRY
	PENINSULA OPTOMETRY
	PENINSULA ORTHODONTICS
	SERRANO, IDANIA
	SMITH, GLENN L
	STELLATO, VIRGINIA C
	SUBWAY SANDWICHES
	SUMMERS, CATHI
	SUNNY FRESH CLEANERS
19057	WILLITS, STACY
19062	BIXBY PLAZA CARPETS
19081	RALPHS GROCERY CO
	WELLS FARGO
	WELLS FARGO BANK
19101	LONGS DRUG STORE
19125	CARLS JR
	EMERGENCY ALL LOCKSMITH INC
19240	UNION BANK
19270	PATTIS PRESCHOOL INC
19300	BANK OF AMERICA
19330	ORCHARD SUPPLY HARDWARE
19350	LARDAS SYSTEMS INC
19440	STAR REAL ESTATE
20101	EASY LOAN SOLUTIONS
	OXY USA INC

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 2010

18851	PRAISE CHRISTIAN CTR
	SOUTH COAST SUPPLY
19021	FIRST TEAM REAL ESTATE
19035	HALLMARK ESCROW
	RUBIOS FRESH MEXICAN GRILL
	ZPIZZA
19051	AIM MAIL CTR
	ANGELOS BEAUTY SUPPLY & SALON
	FREEPOINT TECHNOLOGY
	HAPPY NAILHUNTINGTON BEACH
	LE, NGOC T
	PENINSULA OPTOMETRY
	PENINSULA ORTHODONTICS
	REALTIME SHORTHAND REPORTERS
	STEINER, JOHN A
	SUBWAY
	SUNNY FRESH CLEANERS
	WEST COAST PROCESSORS LLC
19062	BIXBY PLAZA CARPETS
19081	RALPHS
	WELLS FARGO BANK
19085	PEARLE, JAMES L
19125	CARLS JR
19240	UNION BANK
19270	PATTIS PRESCHOOL INC
19300	BANK OF AMERICA
19330	ORCHARD SUPPLY HARDWARE
19350	MC DONALDS
19370	JONATHANS COASTAL LIVING
19440	STAR REAL ESTATE
20101	AERA ENERGY LLC

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 2005

18851	AMERICAN LANDSCAPE SUPPLY / ROCKSTAR
	PRAISE CHRISTIAN CENTER
	SOUTH COAST SUPPLY
19021	FIRST TEAM
	FIRST TEAM REAL ESTATE
19035	HALLMARK ESCROW CO INC
	RUBIOS BAJA GRILL
	RUBIOS RESTAURANTS INC
	Z PIZZA
19051	AIM MAIL CENTER
	ANGELOS BEAUTY SUPPLY & SALON
	GREAT CLIPS
	HAPPY NAIL OF HUNTINGTON BEACH
	JUNGLE PROMOTIONS
	OBRIEN, MICHAEL S
	PENINSULA OPTOMETRY
	PENINSULA ORTHODONTICS
	PITCH MAN
	PRUITT, JULIE A
	SCHULTZ, JEFF
	SUBWAY SANDWICHES
	SUNNY FRESH CLEANERS
	TRAN & TIPTON LLC
19081	RALPHS GROCERY CO
	WELLS FARGO BANK
19101	LONGS DRUG PHARMACY # 521
19125	CARLS JR
	LONGS DRUG PHARMACY # 521
19270	PATTIS PRESCHOOL INC
19300	ORCHARD SUPPLY HARDWARE
19350	MCDONALDS
19370	JONATHONS COASTAL LIVING
19440	STAR REAL ESTATE
20101	AERA ENERGY

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 1999

18381	HUNTINGTON BEACH RIDING SCHOOL
	HUNTINGTON CENTRAL PARK EQUESTRIAN CENTER
	PLAYA GRANDE POLO CLUB
	RICK BAER TRAINING STABLES
	STEINBERG TACK & FEED
18851	AMERICAN LANDSCAPE SUPPLY
19051	NANCY MENDOZA
19085	JAMES PEARLE
19472	JOSE MCCOYS BURGERS & TACOS
20101	CALRESOURCES L L C
	CH2M HILL
	L CALRESOURCES

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 1994

17552	ARMSTRONG GARDEN CTR INC
17732	PARK BENCH CAFE
18381	ABERCROMBIE, KEVIN
	HUNTINGTON BEACH RIDING SCHOOL
	HUNTINGTON CENTRAL PARK
	KEVIN ABERCROMBIE DVM
	PLAYA GRANDE POLO CLUB
	RICK BAER TRAINING STABLES
	STEINBERG TACK & FEED
	THOROUGHBRED SHOW CONNECTION
	TINA DUREE TRAINING STABLES
	TO & FRO FARMS
18782	STROBELS OIL WELL
18851	AMERICAN LANDSCAPE SUPPLY
19472	JOSE MC COYS BURGERS & TACOS
20101	SHELL CA PRDCTN INC

Target Street	Cross Street	Source
✓	-	Cole Information

GOLDENWEST ST 1992

17552	ARMSTRONG GARDEN CT
17732	PARK BENCH CAFE
18381	ABERCROMBIE K DVM
	ABERCROMBIE, KEVIN
	BITS&PIECES
	DUREE T TRNG STABLE
	HUNTGTN BCH RDNG SC
	PLAYA GRANDE POLO
	RICK BAER STABLES
	TO&FRO FARMS
18782	STROBELS OIL WELL
18851	AMER LANDSCAPE SPLY
19472	JOSE MCCOYS BURGERS
20031	C T D
	CHEVRON DIST OFC
20101	SHELL CA PRDCTN INC

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

GOLDENWEST ST 1987

17552	★GOLDEN WEST NURSERY	842-1512	
	★GOLDENWEST NURSERY	842-1512	
	★MELS GOLDNWST NRSRY	842-1512	
17732	★ALDER TREE SNCK SHP	847-1566	5

ZIP CODE 92648

18001	XXXX	00	
18102	XXXX	00	
18191	XXXX	00	
18196	★AGRISCAPE	848-8258	+7
	CRUZ JOSE	842-6956	0
	★DISTEFANO VICTOR	847-1243	+7
	GARCIA OLEGARIO	848-9722	9
	NAVARRO DOROTEO	848-6552	4
	★OCEAN VIEW MUSH GRW	847-1243	
18262	XXXX	00	
18381	★DUREE T TRNG STABLE	842-0050	6
	GARCIA GUILLERMINA	841-2710	+7
	★HUNTGTN BCH EQSTRN	848-6565	
	★HUNTGTN CENTRAL PRK	848-6565	6
	★TO&FRO FARMS	841-3815	6
18382	★KLASSEN FERTILIZER	951-5764	6
18442	XXXX	00	
18451	XXXX	00	
18488	★HOT LINE LEASING CO	841-4921	+7
	★MCGEE L TRUCKING	847-3520	+7
	★NELSON AUTO SERV	847-1201	
	★NELSON&SONS TRCK PT	847-1201	
	OLSON CECIL	848-9941	+7
18501	XXXX	00	
18692	TRANSUE JUNE A	848-3471	6
18736	XXXX	00	
18851	★AMER LANDSCAPE SPLY	842-8866	9
18906	XXXX	00	
18921	SMITH MICHAEL	842-1211	+7
18926	XXXX	00	
18961	XXXX	00	
19472	★MCCOYS J BRGRS&TACO	960-5101	5
19492	XXXX	00	
20031	★CHEVRON PRDCNG OFC	969-3600	6
20101	..... BUILDING		
	★PHILLIPS OIL	536-6521	6
	★PHILLIPS OIL ACCNTG	969-3292	6
	★PHILLIPS OIL FOREMN	969-3216	6
	★PHILLIPS OIL GAS	969-3229	6
	★PHILLIPS OIL GAS 11	969-3230	6
	★PHILLIPS OIL MNTNC	969-3207	6
	★PHILLIPS OIL PLTFRM	969-3205	6
	★PHILLIPS OIL PRCHSG	969-3304	6
	★PHILLIPS OIL SAFETY	969-3249	6
	★WELL TEC INC	960-0128	4
20101	.....		
NO #	★HB CTY CMTY REC	960-8895	3

★ 140 BUS 184 RES 94 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

GOLDENWEST ST 1982

17552	GOLDEN WEST NURSERY	842-1512	7
	GOLDENWEST NURSERY	842-1512	3
	MELS GOLDNWST NRSRY	842-1512	3
17731	MARY BETHS UNFR FDS	847-1567	+2

ZIP CODE 92648

18001	XXXX	00	
18102	XXXX	00	
18191	XXXX	00	
18196	CRUZ JOSE	842-6956	0
	DISTEFANO VICTOR	847-8338	7
	DISTEFANO VICTR BUS	847-1243	1
	GARCIA OLEGARIO	848-9722	9
	OCEAN VIEW MUSH ORW	847-1243	3
18262	A L C O	848-3088	0
18442	XXXX	00	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

GOLDENWEST ST 1982

GOLDENWEST		92648 CONT	
18451	XXXX	00	
18488	NELSON TOWING	647-1201	3
	NELSON&SONS TRCK PT	847-1201	
18501	XXXX	00	
18692	TRANSUE JUNE A	848-9801	1
18736	SUTHERLAND SCOTT	847-2536	1
18851	AMER LANDSCAPE SPLY	842-8866	9
18906	SUNDE CO	848-4588	+2
	VANHOOSER GRADY	842-7911	
18921	BOUAS JOHN L	847-3317	
18926	XXXX	00	
18961	XXXX	00	
19472	PHILLIPS UPPR CRST	960-5101	+2
19492	OASIS PETROLEUM	536-9185	1
20031	CHEVRON CO DIST CFC	536-2581	8
	CHEVRON CO LN DVLP	536-7539	5
20101	XXXX	00	
NO #	HTG BCH CTY MURDY	960-8805	+2
*	116 BUS 196 RES	99 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

GOLDENWEST ST 1976

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17552*GOLDENWEST NURSERY 842-1512 3
     *MELS GOLDNWST NRSRY842-1512 3
17731*HUNTG BCH CENTRL PK848-8888 5
     *HUNTGN BCH CTY PARK848-0888
     *TOMS PLACE          848-8888 5

              ZIP CODE 92648

18102  XXXX                00
18191  XXXX                00
18196*AGRISCAPE INC        848-8258+6
     *DISTEFANO VICTOR     847-1243 3
     *DCEAN VW MSHRM GRWR847-1243 3
18442  XXXX                00
18451 GAYTAN ART W         847-2249 4
      LUDINGTON KENNETH    847-8259 5
18488*NELSON AUTO SERVICE847-1201
     *NELSON TOWING        847-1201 3
18501*GOLD BAR STABLES     847-2772 4
18692 MILLER T W           847-2724
18736 VAVRA CHAS B         847-3316
18851*DAWSON INDUSTRIES    842-5563 3
18906 VANHOOSER GRADY      842-7911 2
18921 BOUAS JOHN L         847-3317
18926 KING FRANK           847-3948
18961*BRINDLE TREE CO      842-8866 4
18971*AMER LANDSCAPE SPLY842-8866 5
2D031*CHEVRON LND&DVLPMNT536-7539 5
     *STANDARD OIL PRDCNG536-2561 3
2D101*BURMAH OIL&GAS CO   536-6521+6
     *BURMAH OIL&GAS ORLL536-6525+6
     *BURMAH OIL&GAS EMMY536-6041+6
     *BURMAH OIL&GAS PROD536-6521+6
     *OILBASE INC          536-8789 3
 NO #*HUNTGN BCH CTY REC  842-4431 4
     *  82 BUS  211 RES  122 NEW
```

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

GOLDENWEST ST 1973

17552*GOLDENWEST NURSERY 842-1512+3
*MELS GOLDNWST NRSRY842-1512+3

ZIP CODE 92648

18102 XXXX 00
18191 XXXX 00
18196*DISTEFANO VICTOR 847-1243+3
*OCEAN VW MSHRM GRWR847-1243+3
18442 BORGERSON ROY N 847-4946+3
18451 OAKFORD C H 847-2245 2
18488*NELSON AUTO SERVICE847-1201
*NELSON TOWING 847-12D1+3
18692 MILLER T W 847-2724
18736 VAVRA CHAS B 847-3316
18851*DAWSON INDUSTRIES 842-5563+3
18906 VANHOOSER GRADY 842-7911 2
18921 BOUAS JOHN L 847-3317
18926 KING FRANK 847-3948
18961*BRINKLE TREE CO 842-2425 2
18971*AMER FIREWD&TOPSOIL842-2425+3
*STAR EQPMNT&FARMING842-2425+3
20031*STANDARD OIL PRDCNG536-2561+3
20101*ATLANTIC OIL CO 536-9727+3
*OILBASE INC 536-8789+3
*SIGNAL OIL&GAS CO 536-6521+3
NO #*HTG BCH CTY CMTY CT847-5811+3
NO #*S D C CONSTRUCTION 842-7006+3
* 46 BUS 211 RES 16D NEW

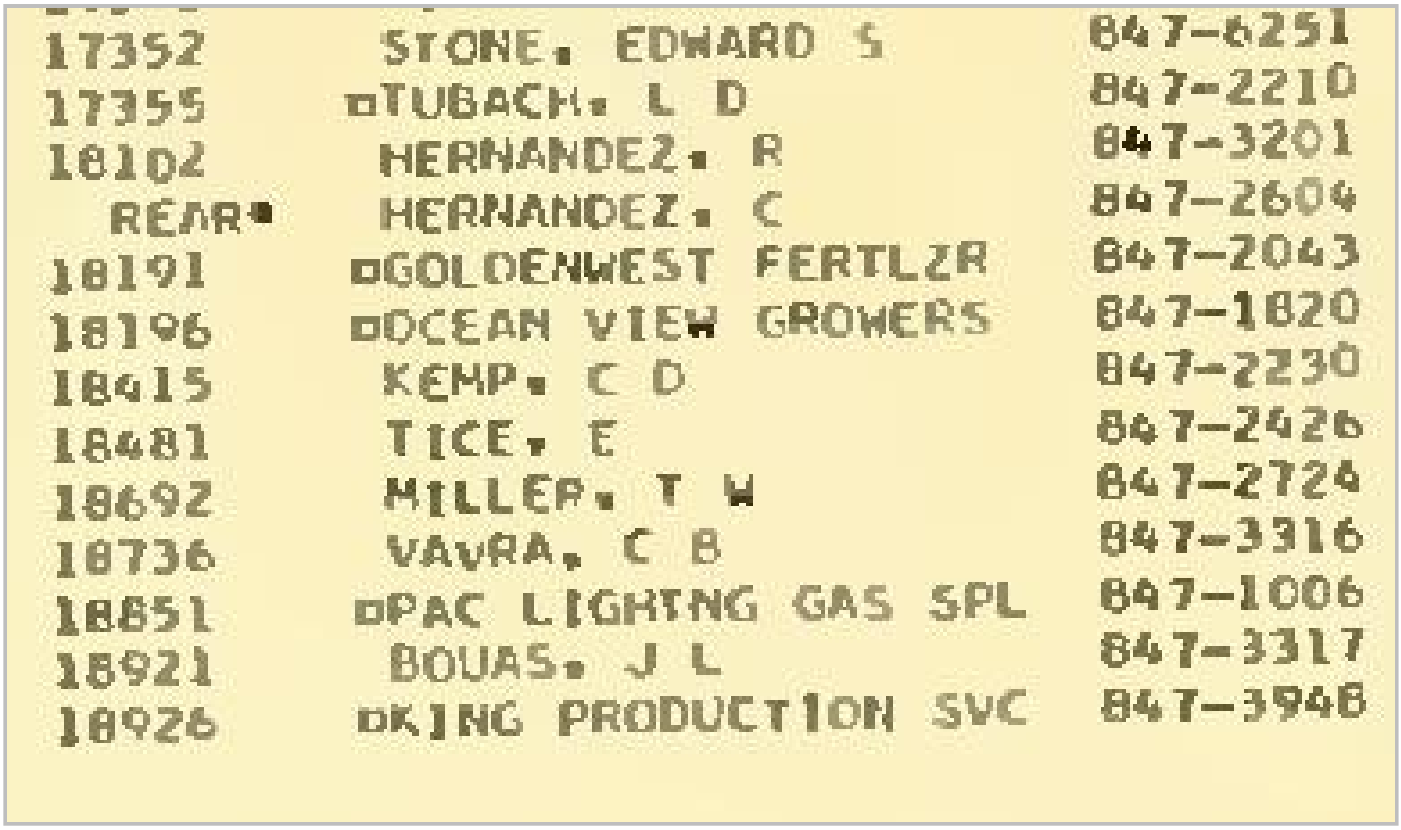
Target Street	Cross Street	Source
✓	-	General Telephone Co

GOLDENWEST ST 1968

[7352	STONE, EDWARD S	847-6251
18102	HERNANDEZ, R	847-3201
REAR	HERNANDEZ, C	847-2604
18191	GOLDENWEST FERTLZR	847-2043
18196	DI STEFANO, VICTOR	847-8338
18196	OCEAN VIEW GROWERS	847-1820
18692	MILLER, I W	847-2724
18736	VAVRA, C B	847-3316
18906	OAKFORD, C H	847-2245
18921	BOUAS, J L	847-3317
18926	KING PRODUCTION SVC	847-3948

Target Street	Cross Street	Source
✓	-	General Telephone Co

GOLDENWEST ST 1964



17352	STONE, EDWARD S	847-6251
17355	□TUBACH, L D	847-2210
18102	HERNANDEZ, R	847-3201
REAR	HERNANDEZ, C	847-2604
18191	□GOLDENWEST FERTLZR	847-2043
18196	□OCEAN VIEW GROWERS	847-1820
18415	KEMP, C D	847-2230
18481	TICE, E	847-2426
18692	MILLER, T W	847-2724
18736	VAVRA, C B	847-3316
18851	□PAC LIGHTNG GAS SPL	847-1006
18921	BOUAS, J L	847-3317
18926	□KING PRODUCTION SVC	847-3948

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648

Inquiry Number: 8040226.3
July 08, 2025

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

07/08/25

Site Name:

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648
EDR Inquiry # 8040226.3

Client Name:

Langan
515 South Flower Street, Suite 1060
Los Angeles, CA 90071
Contact: Katherine Thomas

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 47A8-49A8-B72B

PO # 7001252701

Project CRC Huntington Beach

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 #: 47A8-49A8-B72B

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648

Inquiry Number: 8040226.4
July 08, 2025

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

07/08/25

Site Name:

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648
EDR Inquiry # 8040226.4

Client Name:

Langan
515 South Flower Street, Suite 1060
Los Angeles, CA 90071
Contact: Katherine Thomas

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Search Results:

P.O.# 7001252701
Project: CRC Huntington Beach

Coordinates:

Latitude:	33.674487 33° 40' 28" North
Longitude:	-118.023703 -118° 1' 25" West
UTM Zone:	Zone 11 North
UTM X Meters:	405102.22
UTM Y Meters:	3726534.79
Elevation:	37.00' above sea level

Maps Provided:

2022, 2021	1950, 1951
2018	1949
2015	1943
2012	1941
1981	1935
1974	1934
1972	1896
1965	

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Topo Sheet Key

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

2022, 2021 Source Sheets



Newport Beach
2022
7.5-minute, 24000



Seal Beach
2021
7.5-minute, 24000

2018 Source Sheets



Seal Beach
2018
7.5-minute, 24000



Newport Beach
2018
7.5-minute, 24000

2015 Source Sheets



Seal Beach
2015
7.5-minute, 24000



Newport Beach
2015
7.5-minute, 24000

2012 Source Sheets



Seal Beach
2012
7.5-minute, 24000



Newport Beach
2012
7.5-minute, 24000

Topo Sheet Key

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

1981 Source Sheets



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

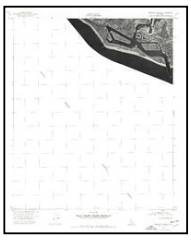


Newport Beach
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1974 Source Sheets



Costa Mesa
1974
7.5-minute, 24000
Aerial Photo Revised 1974



Newport Beach
1974
7.5-minute, 24000
Aerial Photo Revised 1974



Seal Beach
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1972 Source Sheets



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

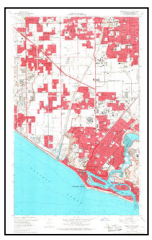


Seal Beach
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1965 Source Sheets



Seal Beach
1965
7.5-minute, 24000
Aerial Photo Revised 1963



Newport Beach
1965
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.

1950, 1951 Source Sheets



Seal Beach
1950
7.5-minute, 24000
Aerial Photo Revised 1947



Newport Beach
1951
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets

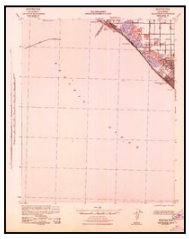


Seal Beach
1949
7.5-minute, 24000
Aerial Photo Revised 1947



Newport Beach
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1943 Source Sheets



Las Bolsas
1943
15-minute, 62500

1941 Source Sheets



Las Bolsas
1941
15-minute, 62500
Aerial Photo Revised 1939

Topo Sheet Key

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

1935 Source Sheets

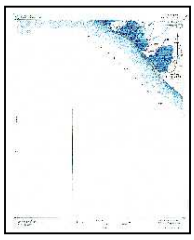


Newport Beach
1935
7.5-minute, 31680



Seal Beach
1935
7.5-minute, 31680

1934 Source Sheets



LAS BOLSAS
1934
15-minute, 62500

1896 Source Sheets



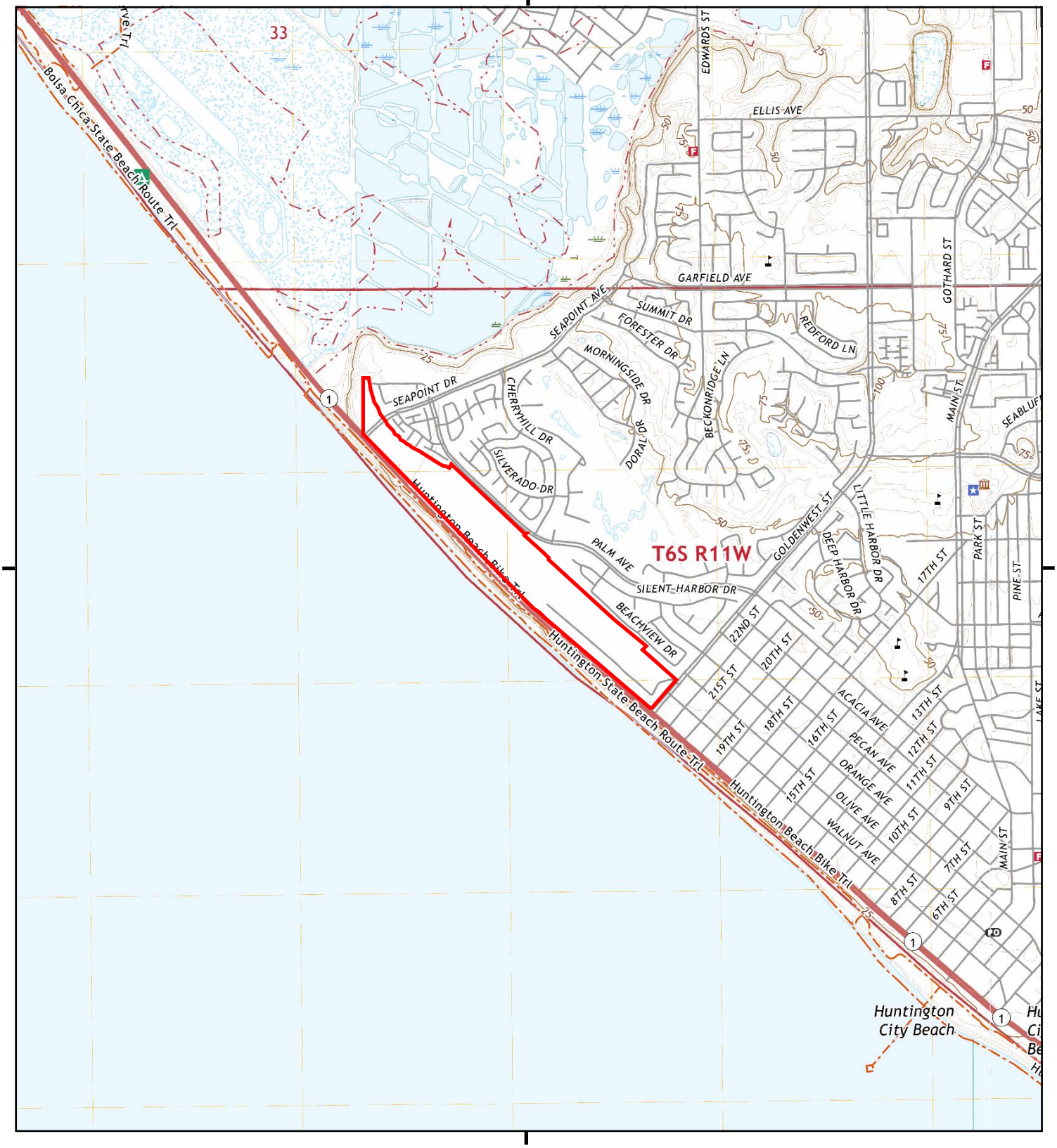
Las Bolsas
1896
15-minute, 62500



Santa Ana
1896
15-minute, 62500

Historical Topo Map

2022, 2021



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

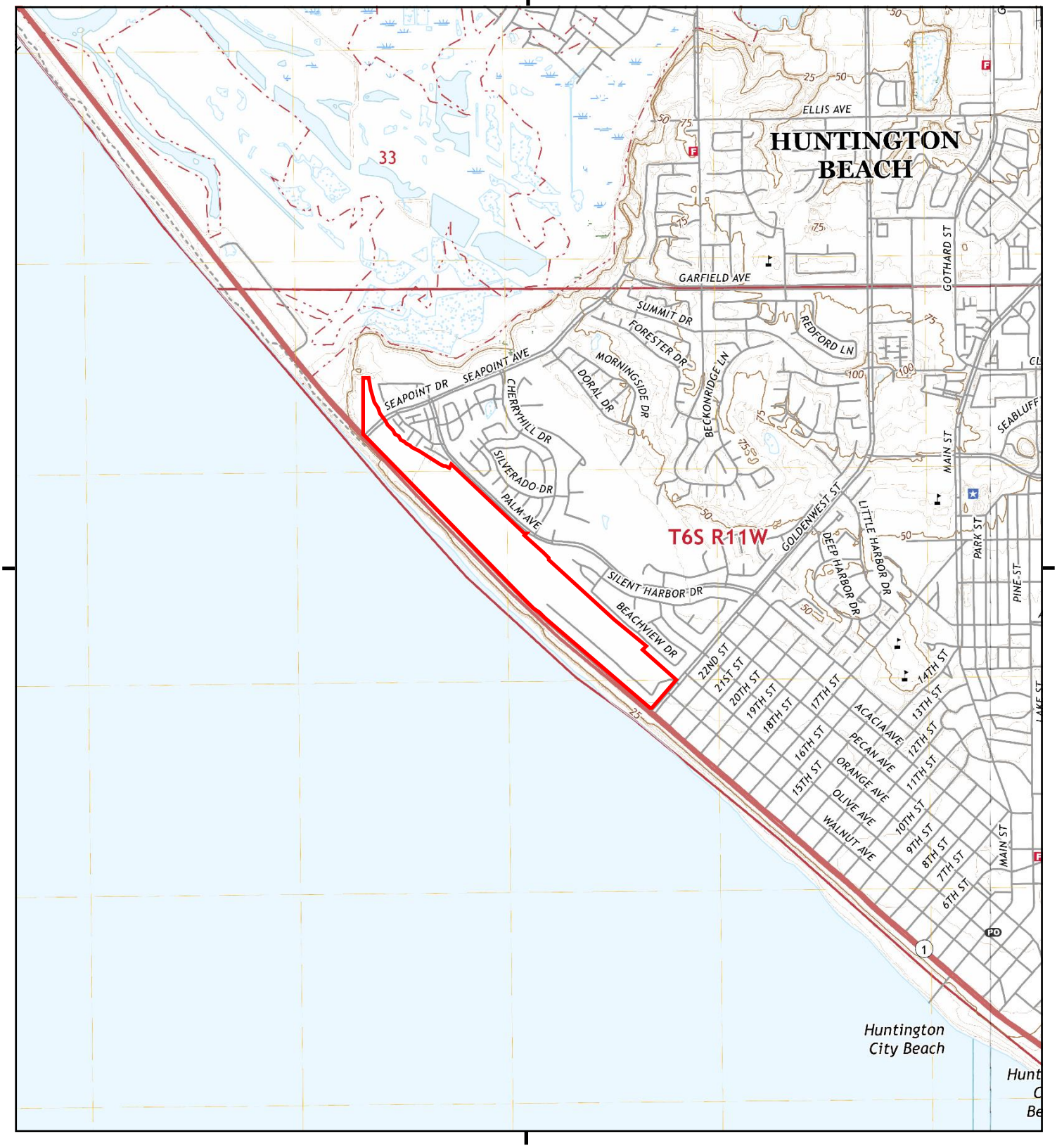
TP, Seal Beach, 2021, 7.5-minute
E, Newport Beach, 2022, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N

Historical Topo Map

2018



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

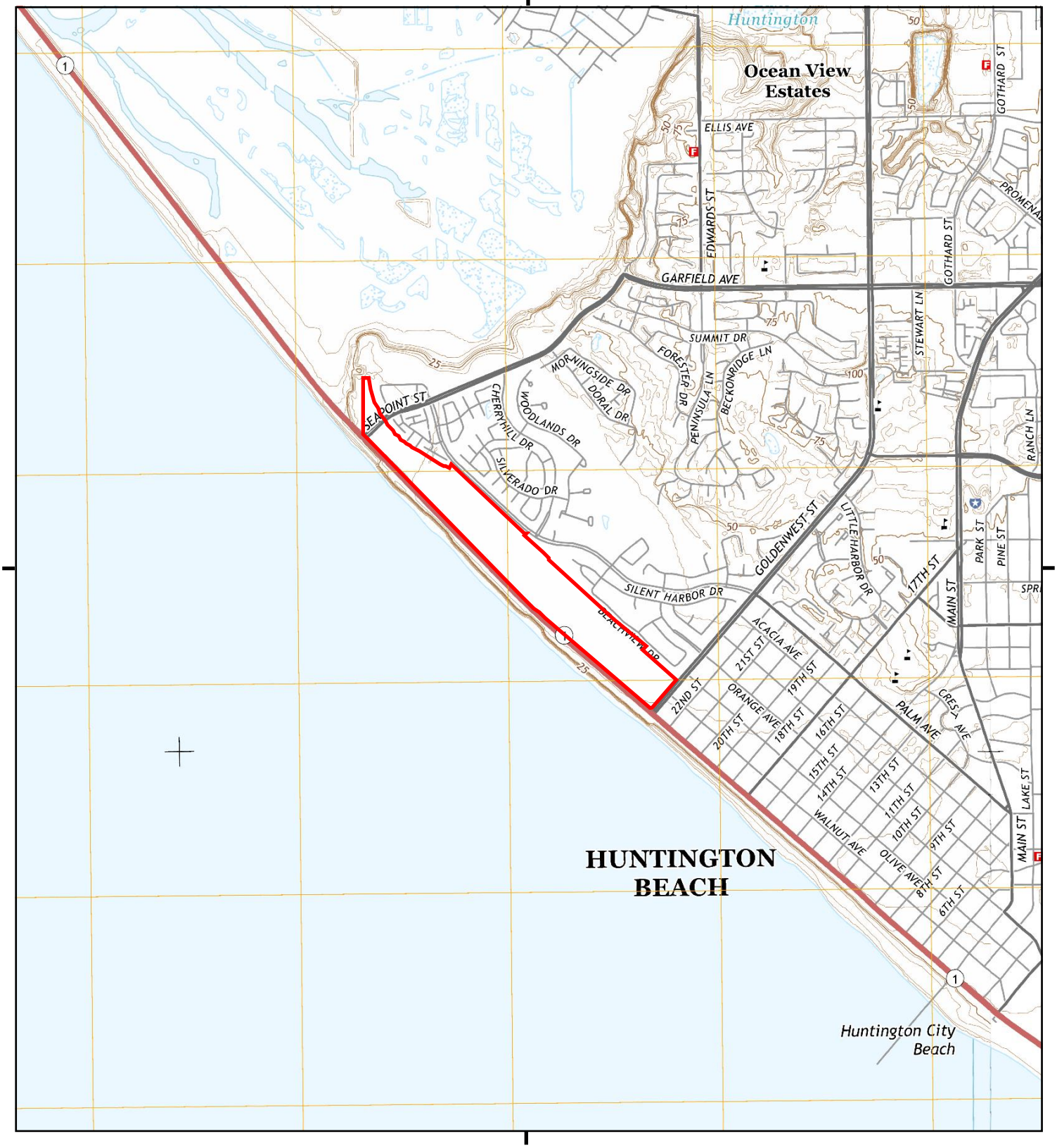
TP, Seal Beach, 2018, 7.5-minute
E, Newport Beach, 2018, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N

Historical Topo Map

2015



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

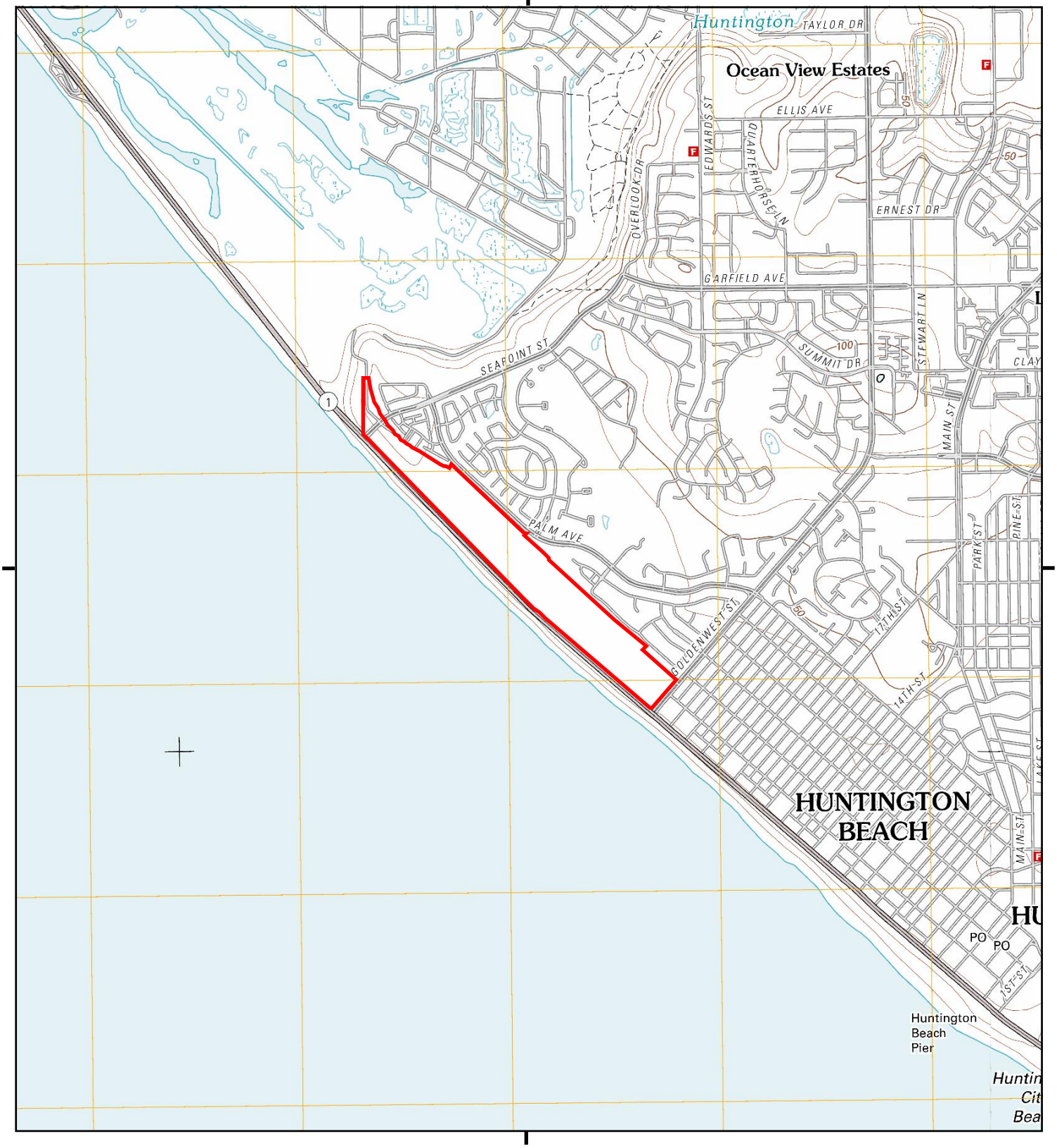
TP, Seal Beach, 2015, 7.5-minute
E, Newport Beach, 2015, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N

Historical Topo Map

2012



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

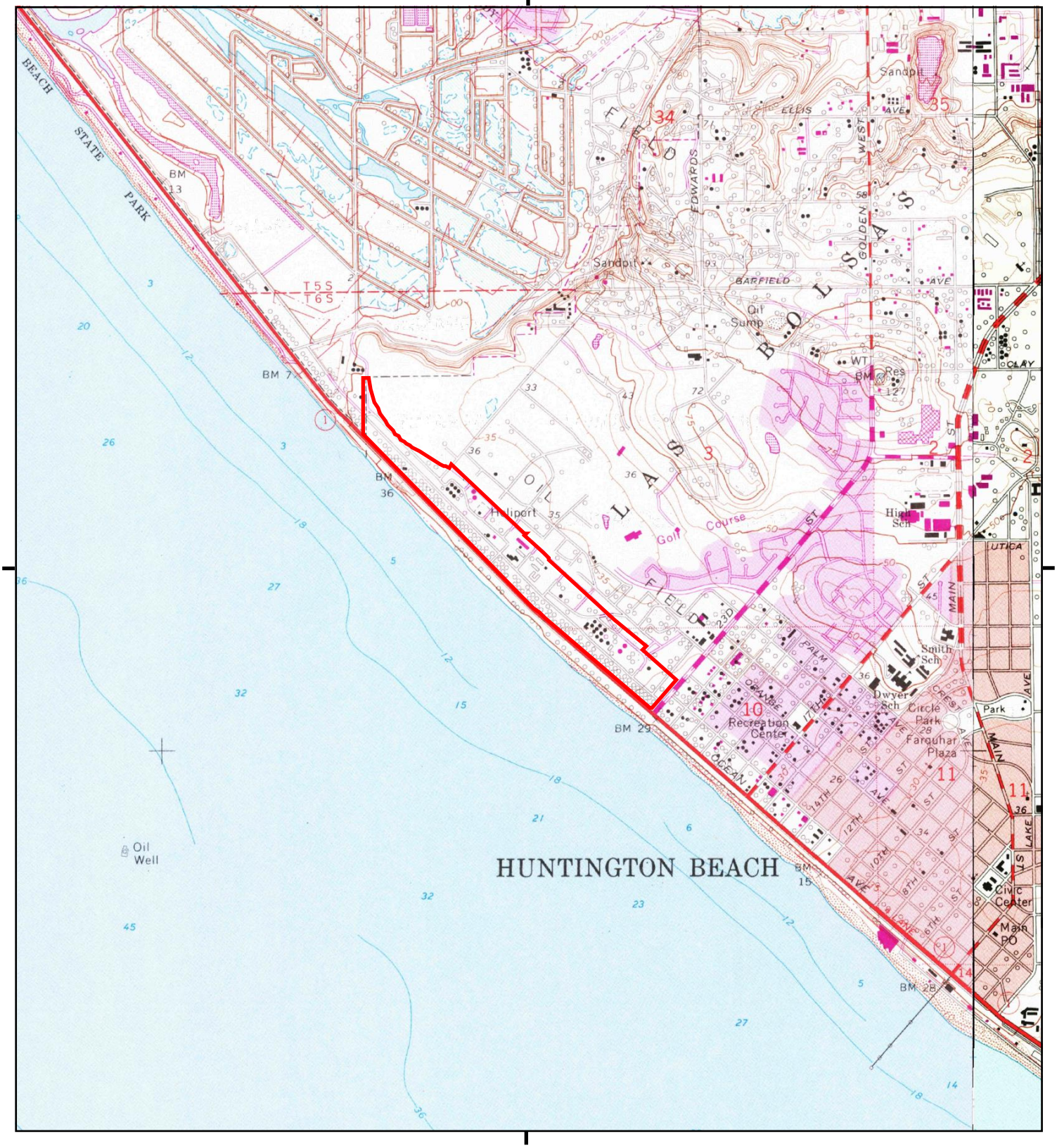
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 2012, 7.5-minute
E, Newport Beach, 2012, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

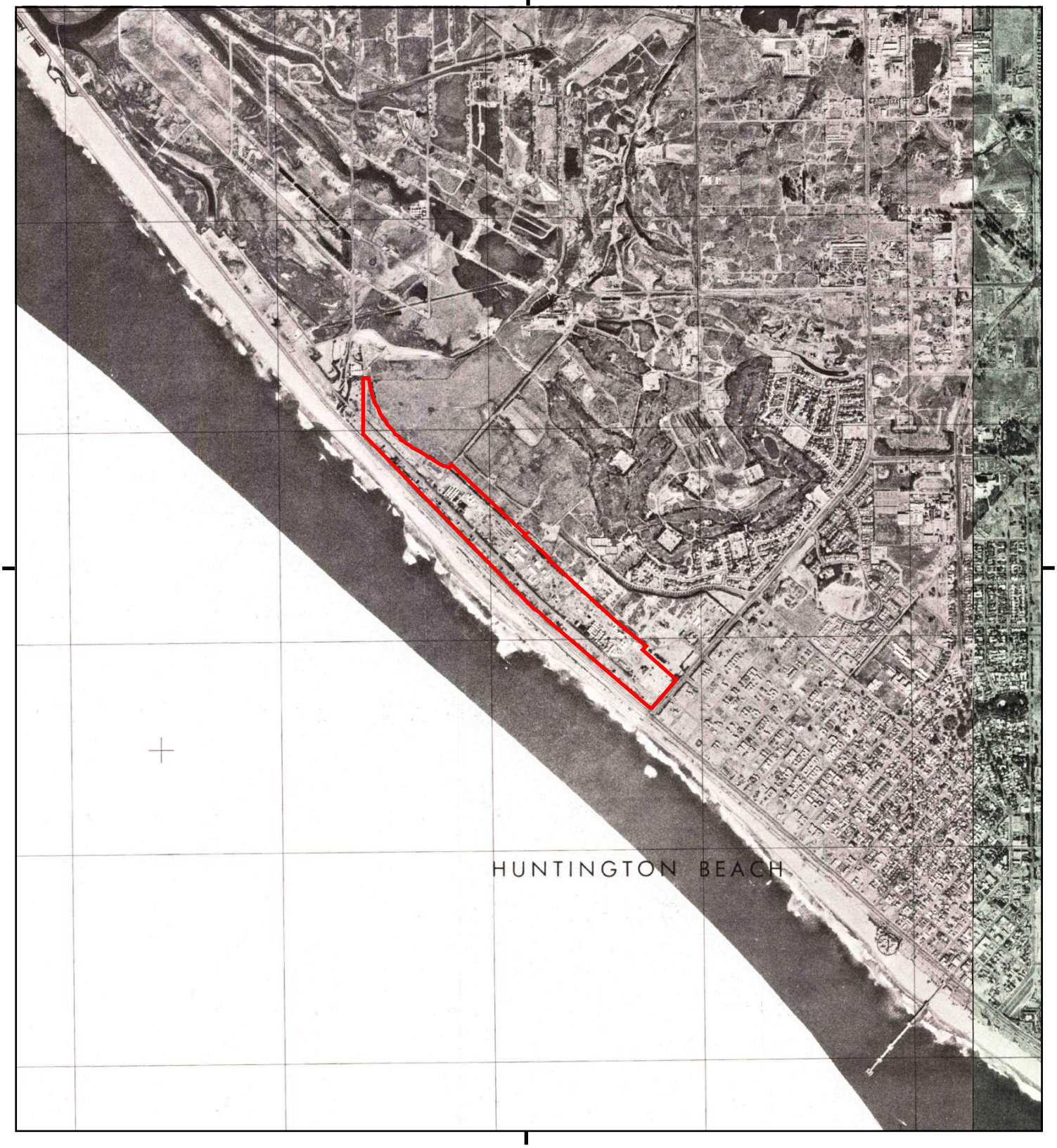
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1981, 7.5-minute
E, Newport Beach, 1981, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

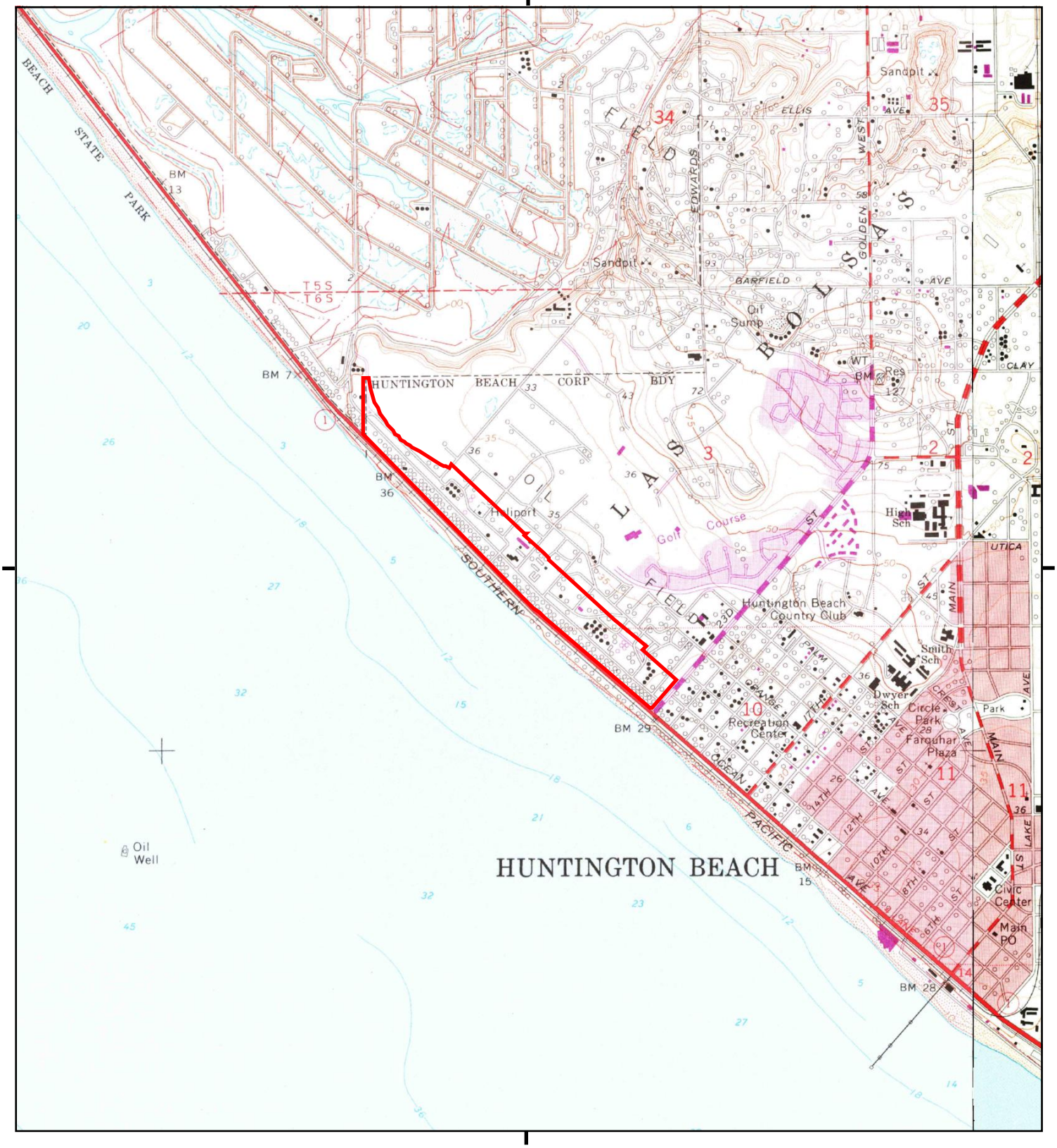
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1974, 7.5-minute
E, Costa Mesa, 1974, 7.5-minute
E, Newport Beach, 1974, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

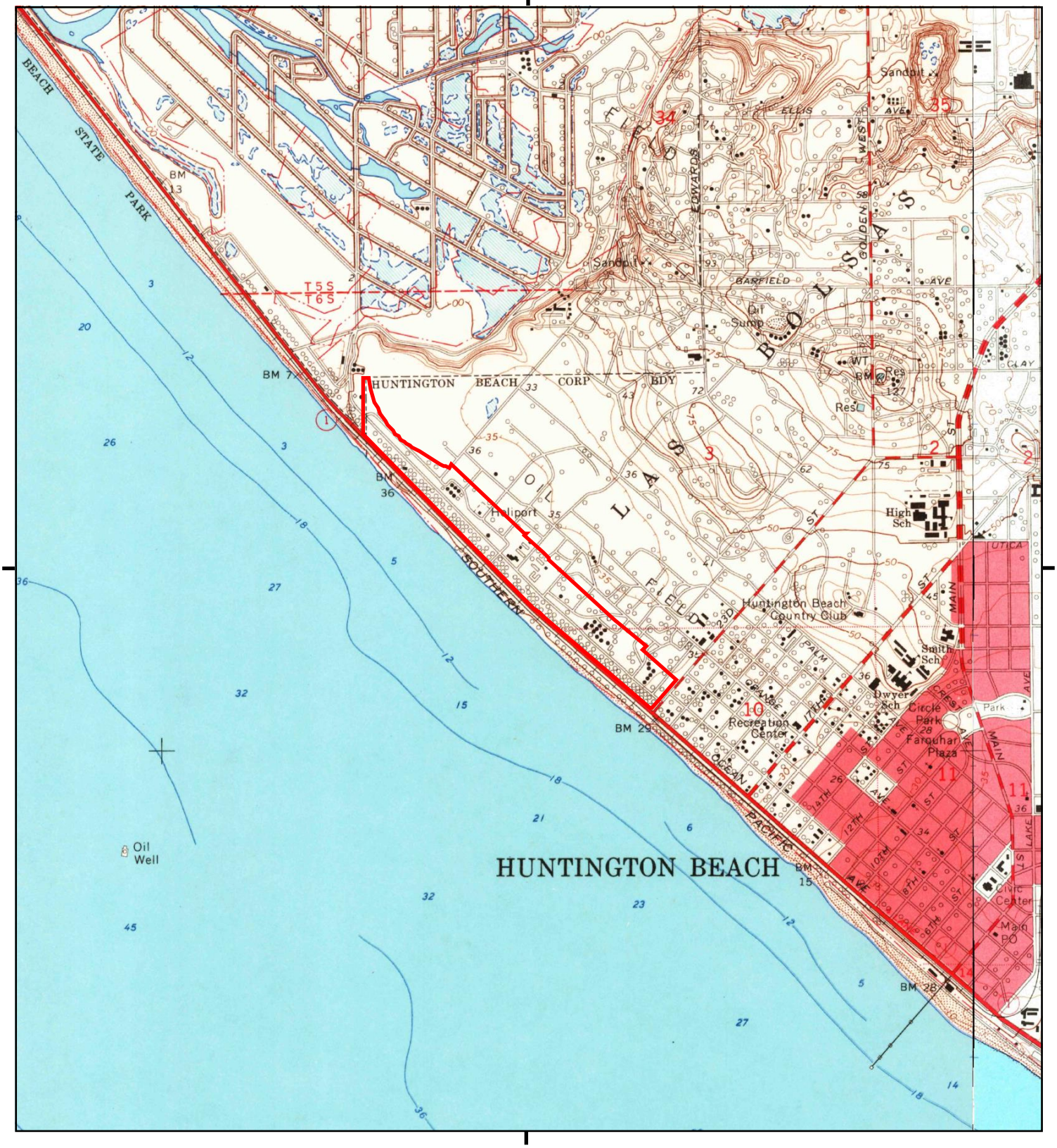
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1972, 7.5-minute
E, Newport Beach, 1972, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

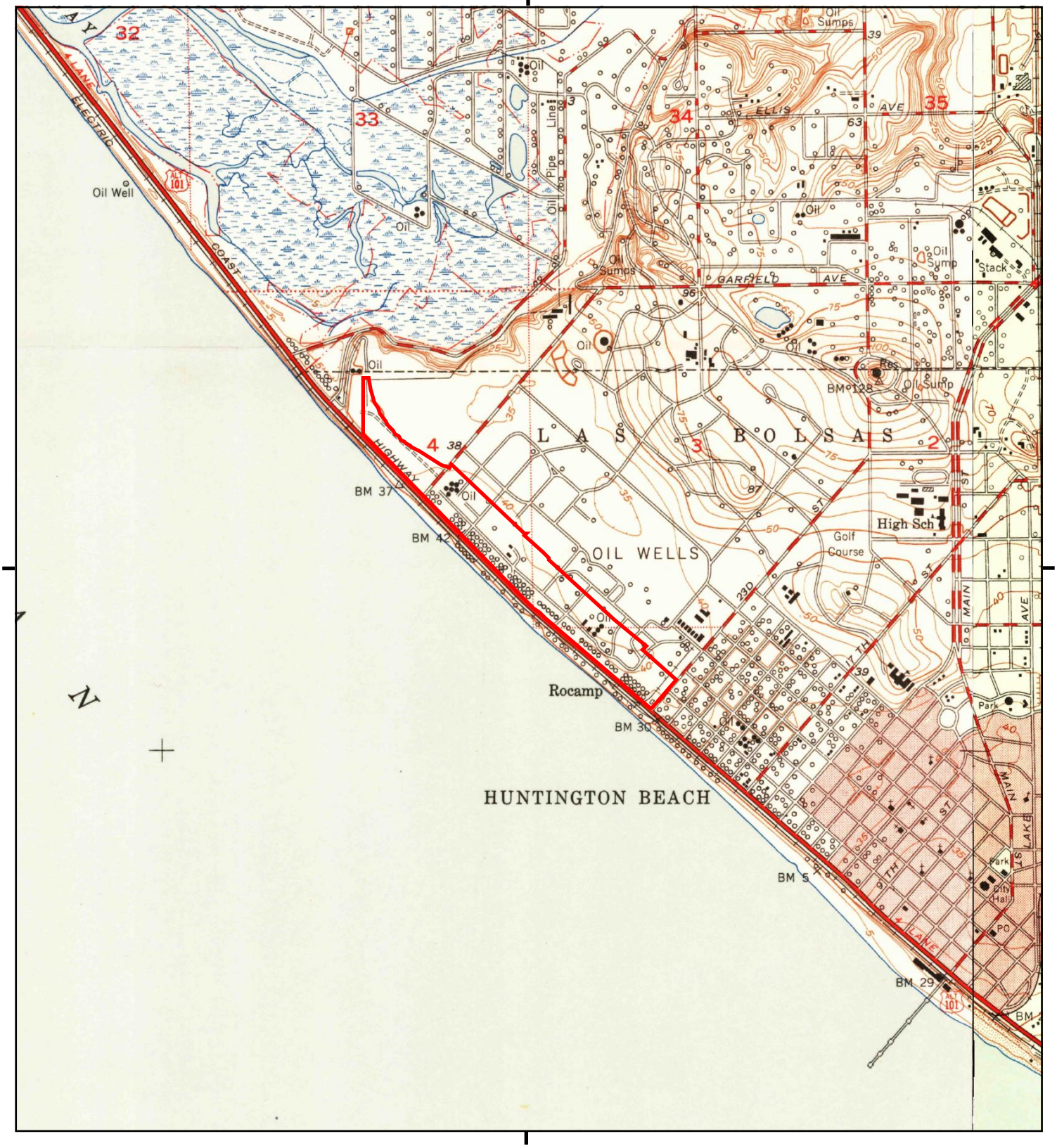
TP, Seal Beach, 1965, 7.5-minute
E, Newport Beach, 1965, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N

Historical Topo Map

1950, 1951



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

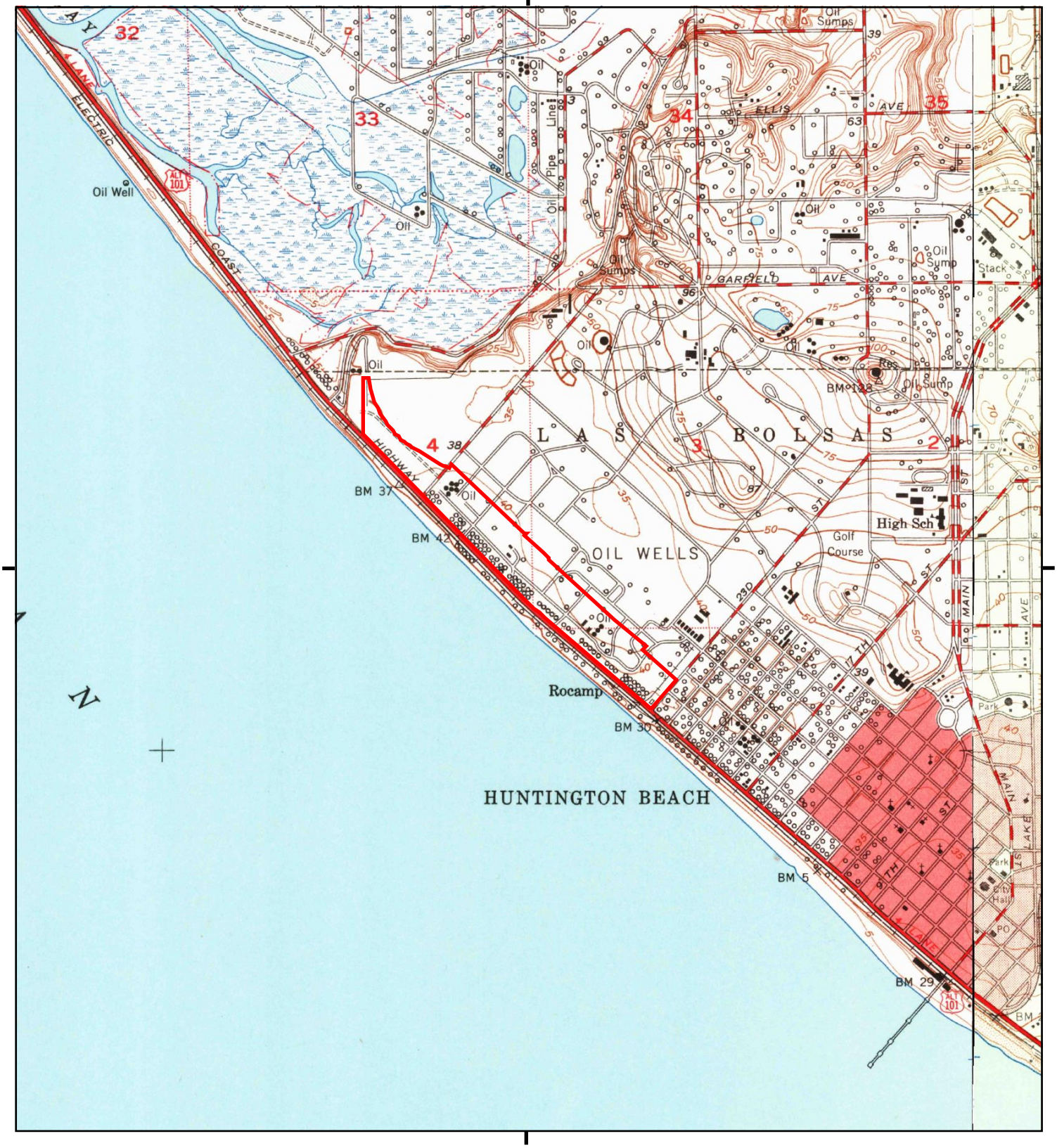
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1950, 7.5-minute
E, Newport Beach, 1951, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1949, 7.5-minute
E, Newport Beach, 1949, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

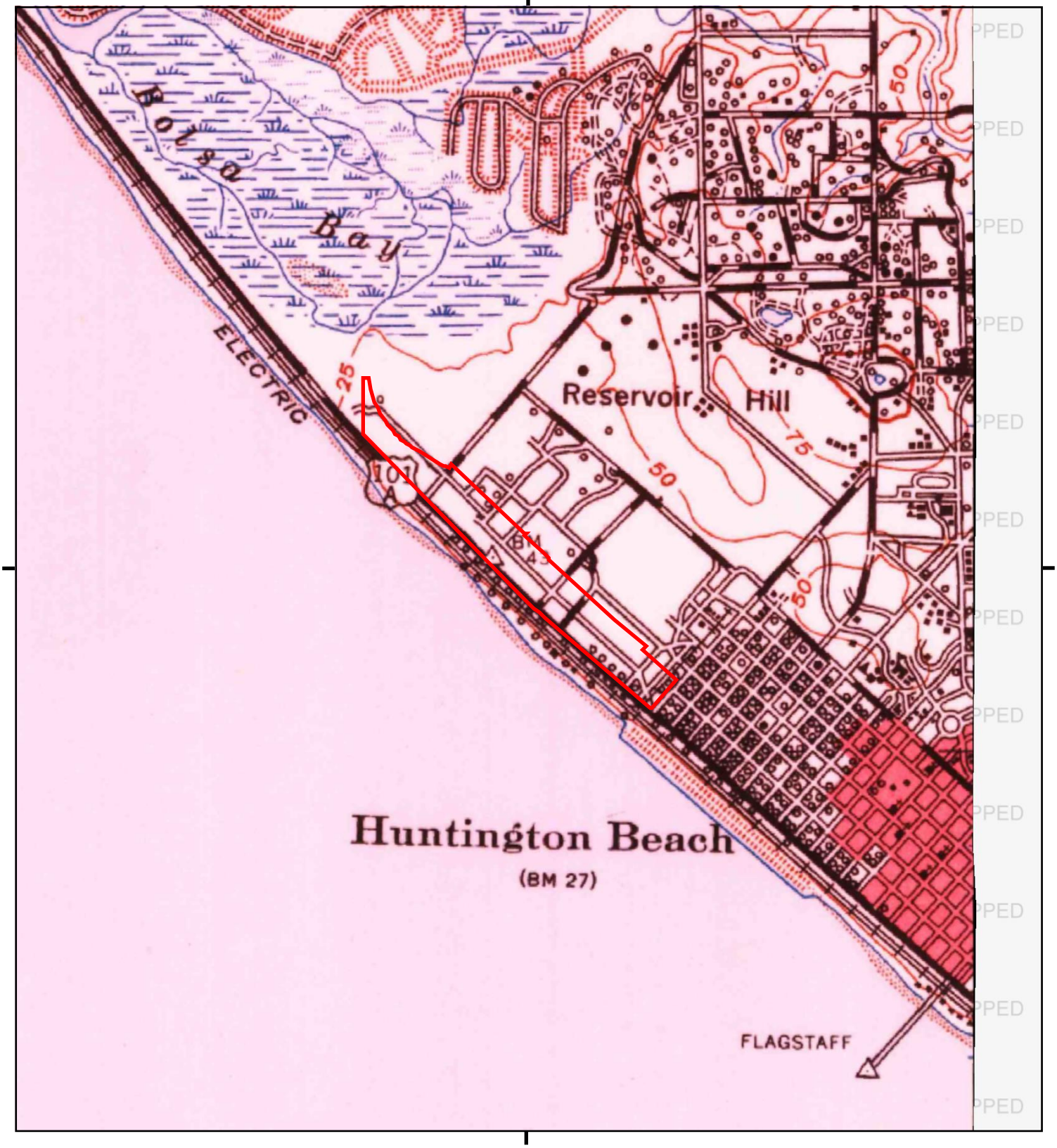
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Las Bolsas, 1943, 15-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

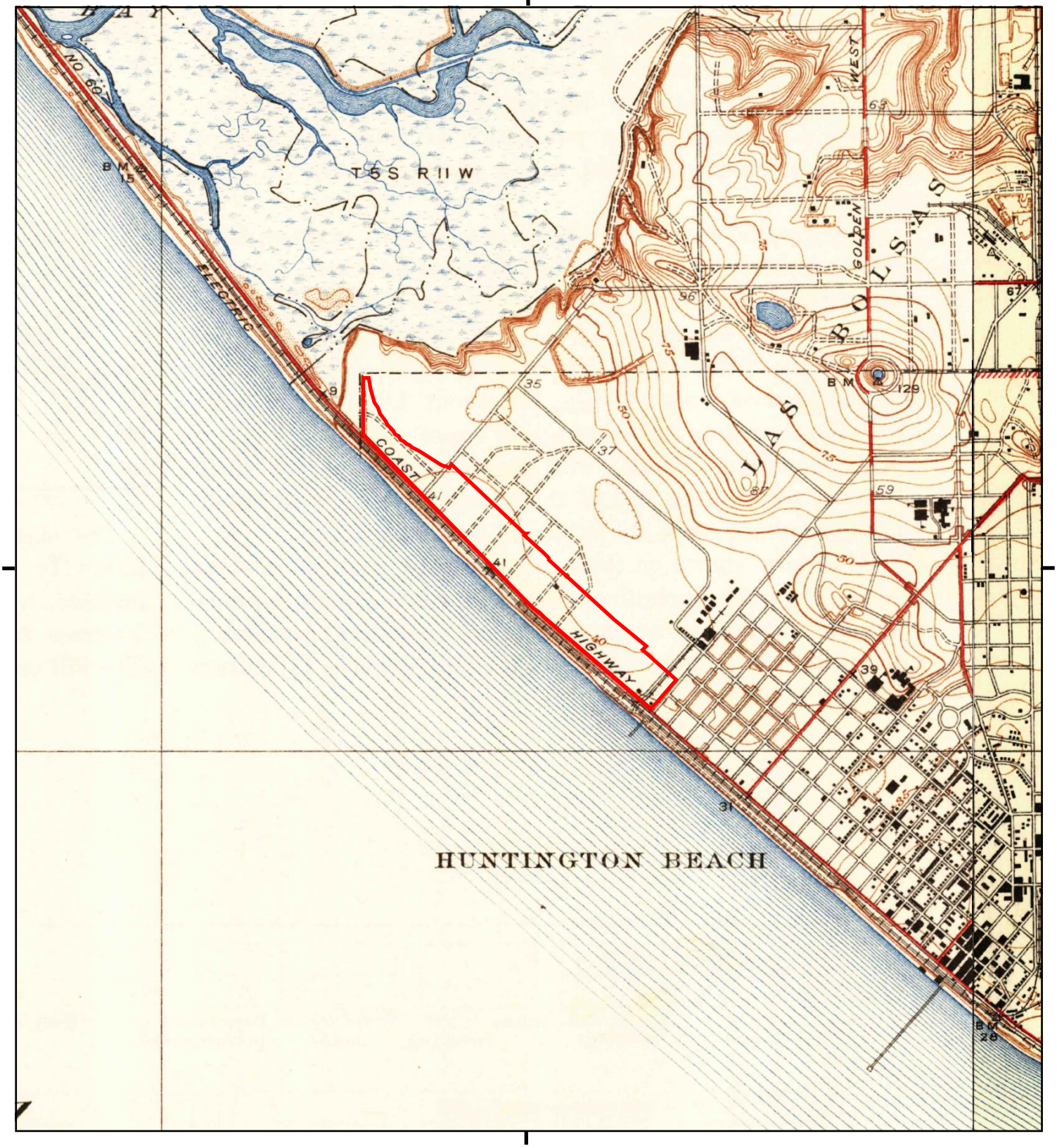
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Las Bolsas, 1941, 15-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

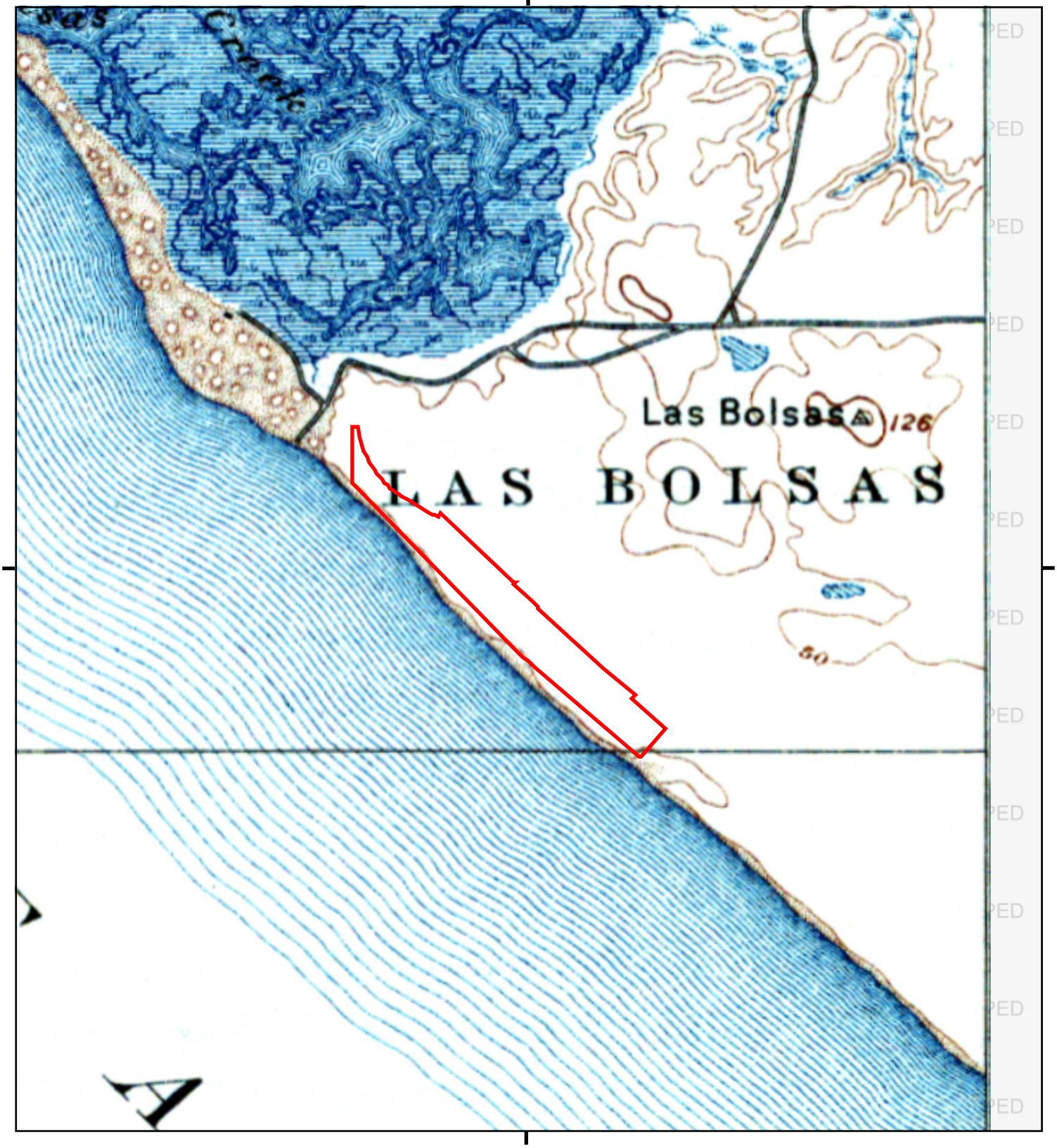
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Seal Beach, 1935, 7.5-minute
E, Newport Beach, 1935, 7.5-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

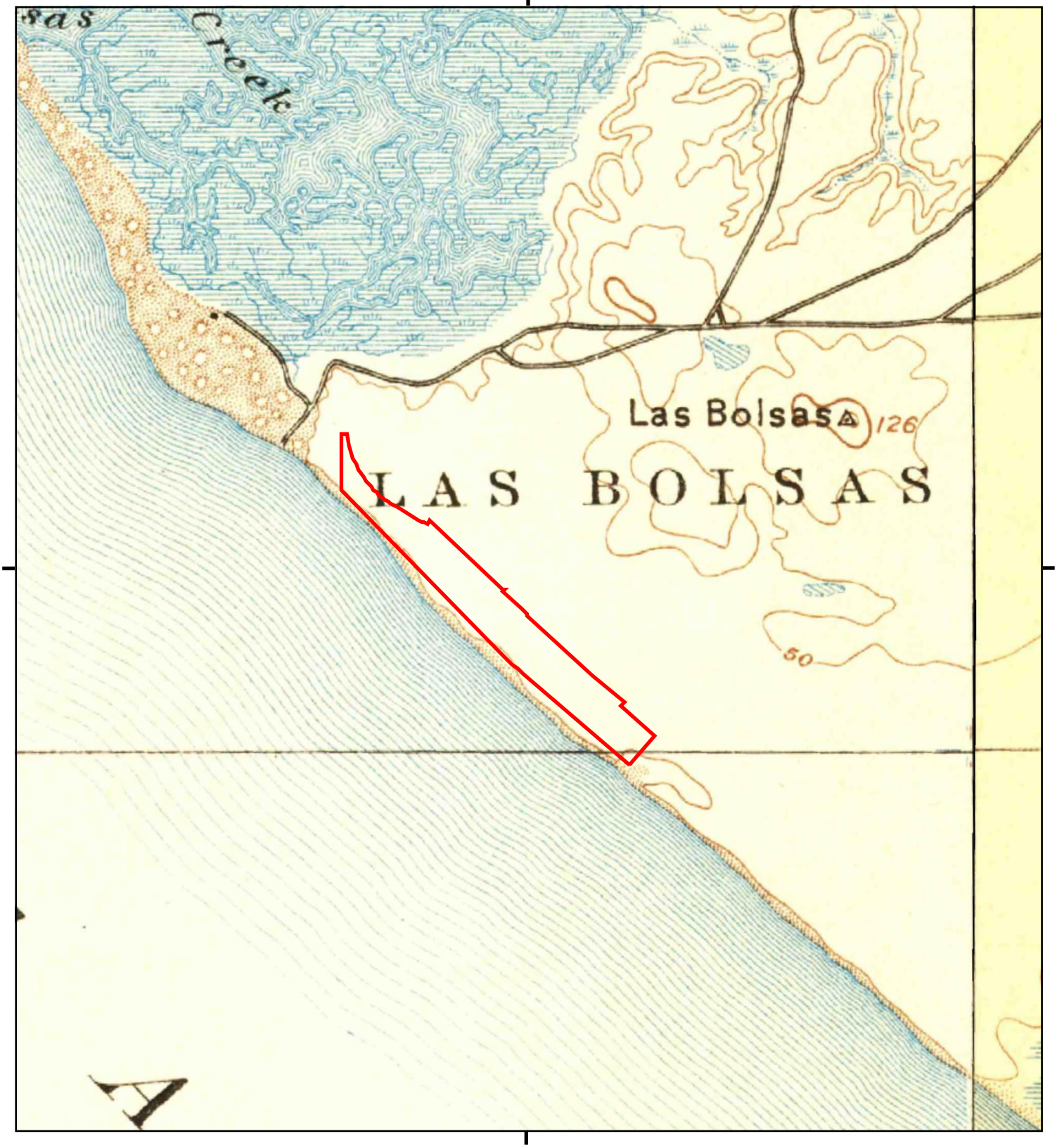
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, LAS BOLSAS, 1934, 15-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Las Bolsas, 1896, 15-minute
E, Santa Ana, 1896, 15-minute

SITE NAME: CRC Huntington Beach
ADDRESS: 20101 Goldenwest Street
Huntington Beach, CA 92648
CLIENT: Langan

N

APPENDIX F

ENVIRONMENTAL DATABASE REPORT

CRC Huntington Beach
20101 Goldenwest Street
Huntington Beach, CA 92648

Inquiry Number: 8040226.2s
July 08, 2025

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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Physical Setting Source Records Searched	PSGR-1

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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 (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

COORDINATES

Latitude (North):	33.6744870 - 33° 40' 28.15''
Longitude (West):	118.0237030 - 118° 1' 25.33''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	405100.1
UTM Y (Meters):	3726341.5
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50004919 SEAL BEACH, CA
Version Date:	2021
East Map:	50006177 NEWPORT BEACH, CA
Version Date:	2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20220512
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	SOCAL HOLDING LLC /	20101 GOLDENWEST AVE	RCRA-SQG, CHMIRS, ICIS, US AIRS, E MANIFEST, EMI		TP
A2	SHELL PROCESSING FAC	20101 GOLDENWEST STR	RGA LF		TP
A3	AERA-HUNTINGTON BEAC	20101 GOLDENWEST STR	TSCA		TP
A4	SHELL-HUNTINGTON BEA	20101 GOLDEN W. ST.	TSCA		TP
A5	ENVENT CORPORATION	20101 GOLDENWEST ST	FINDS		TP
A6		20101 GOLDENWEST ST	ERNS		TP
A7		20101 GOLDENWEST ST	ERNS		TP
A8	AMINOIL BOLSA CHICA	20101 GOLDEN W & PAC	SEMS-ARCHIVE		TP
A9		20101 GOLDENWEST ST	ERNS		TP
A10	SHELL OIL-HUNTINGTON	20101 GOLDEN WEST ST	TSCA		TP
A11	SHELL WESTERN E&P IN	20101 GOLDENWEST	LUST, Cortese		TP
A12	SHELL WESTERN E & P	20101 GOLDENWEST ST	CA FID UST, Orange Co. Ind Site		TP
A13	HUNTINGTON BEACH GAS	20101 GOLDEN W ST	TSCA		TP
A14	SOCAL HOLDING LLC	20101 GOLDENWEST ST	FINDS, ECHO		TP
A15	SOUTHERN CALIFORNIA	20101 GOLDENWEST STN	FINDS		TP
A16		20101 GOLDENWEST ST,	CHMIRS		TP
A17		20101 GOLDENWEST ST	CHMIRS		TP
A18	SHELL WESTERN E & P,	20101 GOLDENWEST STR	RGA LUST		TP
A19	ENSIGN - RIG 550	20101 GOLDENWEST ST	ECHO		TP
A20	OXY USA, INC. HUNTIN	20101 GOLDEN WEST ST	FINDS, ECHO		TP
A21		20101 GOLDENWEST STR	ERNS		TP
A22		20101 GOLDENWEST ST	ERNS		TP
A23		20101 GOLDENWEST ST	ERNS		TP
A24		20101 GOLDENWEST ST	ERNS		TP
A25		WELL #91-33, 20101 G	ERNS		TP
A26		WELL #426-135, 20101	ERNS		TP
A27		20101 GOLDENWEST STR	ERNS		TP
A28		20101 GOLDENWEST STR	ERNS		TP
A29		20101 GOLDENWEST ST	ERNS		TP
A30	CALRESOURCES LLC	20101 GOLDENWEST ST	UST		TP
A31	SOCAL HOLDING LLC	20101 GOLDENWEST ST	PFAS ECHO		TP
A32		20101 GOLDENWEST STR	ERNS		TP
A33	SHELL WESTERN E & P	20101 GOLDENWEST ST	HIST FTTS		TP
A34		20101 GOLDENWEST ST	ERNS		TP
A35		20101 GOLDENWEST ST	ERNS		TP
A36	OXY USA INC	20101 GOLDENWEST ST	SWF/LF, CPS-SLIC, HIST UST, CHMIRS, EMI, HWTS,...		TP
A37		20101 GOLDENWEST ST	ERNS		TP
A38		20101 GOLDENWEST STR	CHMIRS		TP
A39		20101 GOLDENWEST STR	ERNS		TP

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A40		20101 GOLDENWEST ST	CHMIRS		TP
A41	SHELL WESTERN E&P IN	20101 GOLDEN WEST	LUST, CHMIRS		TP
A42		20101 GOLDENWEST ST	ERNS		TP
A43		N. BOLSA/WELL #61-B/	ERNS		TP
A44		20101 GOLDENWEST ST	ERNS		TP
A45	AERA - HUNTINGTON BE	20101 GOLDENWEST STR	TSCA		TP
A46		20101 GOLDENWEST STR	CHMIRS		TP
A47		20101 GOLDENWEST ST.	CHMIRS		TP
A48	ENSIGN - RIG 550	20101 GOLDENWEST ST	RCRA NonGen / NLR		TP
A49	SHELL WESTERN E&P IN	20101 GOLDENWEST ST	LUST, CERS HAZ WASTE, HWTS, HAZNET, NPDES, CIWQS,...		TP
A50		20101 GOLDENWEST/WEL	ERNS		TP
A51	RECOVERY OXY HUNTING	20101 GOLDENWEST STR	NPDES, CIWQS		TP
A52	AREA ENERGY LLC	20101 GOLDENWEST ST	PFAS ECHO		TP
A53		20101 GOLDENWEST ST	ERNS		TP
A54	SHELL WESTERN E&P IN	20101 GOLDEN WEST	UST FINDER RELEASE		TP
A55	OXY USA INC HUNTINGT	20101 GOLDENWEST ST	HAZNET		TP
A56	SHELL WESTERN E & P	20101 GOLDENWEST ST	FTTS		TP
A57	SO CAL HOLDING, LLC	20101 GOLDENWEST ST	FINDS, ECHO		TP
B58	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B59	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C60	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B61	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B62	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B63	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C64	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C65	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C66	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B67	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C68	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
D69	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
E70	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
B71	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
F72	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B73	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B74	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B75	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B76	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B77	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
D78	CALIFORNIA RESOURCES		UIC	Higher	1 ft.

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F79	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
B80	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
G81	BOLSA CHICA LOWLANDS	19499 SEAPOINT AVE	NPDES, CIWQS	Higher	1 ft.
C82	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
G83	HARRIETT WEIDER REGI	19251 SEAPOINT AVE	CERS	Higher	1 ft.
G84	HARRIETT M WIEDER RE	19251 SEAPOINT AVE	CIWQS	Higher	1 ft.
G85	HARRIETT WEIDER REGI	19251 SEAPOINT AVE	CPS-SLIC, Orange Co. Ind Site	Higher	1 ft.
G86	BOLSA CHICA LOWLANDS	19499 SEAPOINT AVE	NPDES, CIWQS	Higher	1 ft.
G87	KEWIT PACIFIC	19499 SEAPOINT AVE	HWTS, HAZNET	Higher	1 ft.
G88	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
G89	FISH & WILDLIFE	19499 SEAPOINT AVE	HWTS	Higher	1 ft.
G90	ROSS ISLAND SAND & G	19499 SEAPOINT ST	HWTS, HAZNET	Higher	1 ft.
G91	KIEWIT PACIFIC	19499 SEAPOINT AVE	HWTS, HAZNET	Higher	1 ft.
B92	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C93	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C94	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C95	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C96	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
H97	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
H98	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
G99	19251 SEAPOINT ST	19251 SEAPOINT ST	CIWQS	Higher	1 ft.
H100	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
E101	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
B102	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
I103	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
E104	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
I105	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
F106	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C107	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
J108	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
I109	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
I110	CHEVRON U.S.A. INC.		UIC	Higher	1 ft.
F111	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
I112	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
I113	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
F114	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
I115	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C116	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
C117	ENSIGN USD - RIG 550	LAT/LONG_USED	HWTS	Higher	1 ft.

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K118	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
E119	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L120	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L121	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
F122	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
K123	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
K124	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
K125	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M126	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L127	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N128	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M129	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N130	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N131	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N132	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N133	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M134	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M135	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
O136	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M137	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
A138	PLATFORM EMMY	1.3 MILES OFFSHORE	CERS	Higher	1 ft.
L139	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
A140	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
A141	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
O142	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M143	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
O144	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L145	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L146	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
M147	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
L148	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P149	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
Q150	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
R151	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
Q152	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
Q153	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P154	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
R155	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P156	CALIFORNIA RESOURCES		UIC	Lower	1 ft.

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
R157	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P158	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
S159	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P160	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
N161	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
Q162	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P163	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
S164	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N165	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
S166	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P167	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N168	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
R169	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N170	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P171	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
P172	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
P173	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
Q174	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
R175	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
Q176	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
N177	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
Q178	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P179	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
180	OM 2501 MSA METER RE	ON GOLDENWEST STREET	NPDES, CIWQS	Higher	1 ft.
P181	CALIFORNIA RESOURCES		UIC	Lower	1 ft.
N182	CALIFORNIA RESOURCES		UIC	Higher	1 ft.
P183	AERA ENERGY, LLC	UNK PCH & GOLDENWEST	CPS-SLIC, Orange Co. Ind Site, CERS	Lower	101, 0.019, SE
P184	F V GROUP LLC PROPER	UNK NE PCH & GOLDENW	CPS-SLIC, Orange Co. Ind Site, CERS	Lower	101, 0.019, SE
J185	BP ANDREEA MOYES	6032 PANORAMA DR	EDR Hist Auto	Higher	225, 0.043, NNW
186	GARFIELD CHEVRON	19382 MAIDSTONE LN	EDR Hist Auto	Higher	437, 0.083, NNW
187	6651 FEATHER DRIVE	6651 FEATHER DRIVE	RCRA NonGen / NLR, E MANIFEST	Higher	473, 0.090, ESE
T188	BRIGHTVIEW GOLF AT S	6501 PALM AVE BUILD	E MANIFEST	Higher	525, 0.099, ENE
T189	SEACLIFF COUNTRY CLU	6501 PALM AVE	RCRA NonGen / NLR	Higher	525, 0.099, ENE
T190	THE HUNTINGTON CLUB	6501 PALM AVENUE	RCRA NonGen / NLR, E MANIFEST	Higher	525, 0.099, ENE
T191	BRIGHTVIEW GOLF AT S	6501 PALM AVE BUILD	RCRA NonGen / NLR, E MANIFEST	Higher	525, 0.099, ENE
T192	HUNTINGTON SEACLIFF	6501 PALM AVE	HAULERS, SWEEPS UST, CA FID UST, CERS TANKS,...	Higher	525, 0.099, ENE
T193	HUNTINGTON SEACLIFF	6501 PALM AVE	UST	Higher	525, 0.099, ENE
T194		6501 PALM AVE	AST	Higher	525, 0.099, ENE
U195	SHELL WESTERN E & P,	21ST ST	HIST CORTESE	Lower	798, 0.151, SE

MAPPED SITES SUMMARY

Target Property Address:
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
V196	ANGELA WANG	406 22ND ST UNIT A	RCRA NonGen / NLR	Higher	833, 0.158, ESE
U197	GOLDEN WEST PROPERTY	2000 PACIFIC COAST H	RCRA NonGen / NLR, E MANIFEST	Lower	878, 0.166, SE
198	SO CAL HOLDING, LLC		PFAS ECHO	Higher	934, 0.177, ESE
V199	MIKE Q NGUYEN	418 22ND ST	RCRA NonGen / NLR, E MANIFEST	Higher	961, 0.182, ESE
200	BOLSA CHICA SITES 1	2 -SITES -AT WEST EN	SWF/LF	Higher	994, 0.188, NNW
V201	SUN SUE KHALIL	422 22ND ST UNIT B	RCRA NonGen / NLR, E MANIFEST	Higher	1005, 0.190, ESE
V202	422 22ND ST #B	422 22ND ST #B	RCRA NonGen / NLR, E MANIFEST	Higher	1005, 0.190, ESE
V203	SUE KHALIL	422 22ND ST #B	RCRA NonGen / NLR	Higher	1005, 0.190, ESE
V204	SUE KHALIL	422 22ND ST APT B	RCRA NonGen / NLR, E MANIFEST	Higher	1005, 0.190, ESE
205	KIBLER HALL	317 20TH ST	CERS TANKS, EMI	Lower	1075, 0.204, ESE
W206	KIM MUNOZ	214 20TH ST, UNIT C	RCRA NonGen / NLR, E MANIFEST	Lower	1110, 0.210, SE
207	CHARLES GRIGER	426 21ST STREET	RCRA NonGen / NLR, E MANIFEST	Higher	1219, 0.231, ESE
W208	HB RENTALS	205 19TH ST. UNIT A	RCRA NonGen / NLR, E MANIFEST	Lower	1302, 0.247, SE
W209	JONAH VILLA	213 19TH ST UNIT 2	RCRA NonGen / NLR, E MANIFEST	Lower	1303, 0.247, SE
W210	JONAH VILLA	213 19TH ST UNIT 1	RCRA NonGen / NLR, E MANIFEST	Lower	1303, 0.247, SE
211	FORT APACHE	1810 PACIFIC COAST H	CPS-SLIC, Orange Co. Ind Site, CERS	Lower	1648, 0.312, SE
212	STATE LANDS COMMISSI	1700 PACIFIC COAST H	CPS-SLIC, UST, SWEEPS UST, HIST UST, CERS TANKS,...	Lower	1952, 0.370, SE
213	309 17TH ST, HB	309 17TH STREET	CPS-SLIC, Orange Co. Ind Site, CERS	Lower	2013, 0.381, SE
214	CHEVRON U.S.A. INC,	20031 GOLDEN WEST ST	SWF/LF, WMUDS/SWAT, DRYCLEANERS, EMI	Higher	2115, 0.401, East
X215	CHEVRON	20031 GOLDENWEST	UST FINDER RELEASE	Higher	2239, 0.424, East
X216	CHEVRON	20031 S GOLDENWEST S	LUST	Higher	2239, 0.424, East
X217	CHEVRON USA INC HUNT	20031 GOLDEN WEST AV	RCRA-SQG, LUST, FINDS, ECHO, Cortese, HWTS, HAZNET	Higher	2239, 0.424, East
Y218	HUNTER-THURMOND OIL	523 17TH STREET	ENVIROSTOR	Higher	2328, 0.441, ESE
Y219	HUNTER-THURMOND OIL	523 17TH ST	SEMS-ARCHIVE	Higher	2328, 0.441, ESE
Z220	FIRE CONTROL STATION		FUDS	Lower	2620, 0.496, ESE
Z221	F C STATION #12		ENVIROSTOR	Lower	2631, 0.498, ESE
222	HUNTINGTON BEACH HS	1905 MAIN STREET	ENVIROSTOR, SCH	Higher	5020, 0.951, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SOCAL HOLDING LLC / 20101 GOLDENWEST AVE HUNTINGTON BEACH, CA 92648	RCRA-SQG EPA ID:: CAD981443807 CHMIRS OES Incident Number: 1-6371 OES Incident Number: 2-4083 OES Incident Number: 987 OES Incident Number: 8-5806 OES Incident Number: 8-0813 **Additional key fields are available in the Map Findings section* ICIS FRS ID:: 110041469862 US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110001175718 E MANIFEST EMI Facility Id: 800241	CAD981443807
SHELL PROCESSING FAC 20101 GOLDENWEST STR HUNTINGTON BEACH, CA	RGA LF	N/A
AERA-HUNTINGTON BEAC 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	TSCA Chemical Number: 8006142	N/A
SHELL-HUNTINGTON BEA 20101 GOLDEN W. ST. HUNTINGTON BEACH, CA 92648	TSCA Chemical Number: 8006142 Chemical Number: 64741486	N/A
ENVENT CORPORATION 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	FINDS Registry ID:: 110041522661 Registry ID:: 110071786813	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 423681 Incident Date Time: 1998-02-09 10:00:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS	N/A

EXECUTIVE SUMMARY

	NRC Report #: 406561 Incident Date Time: 1997-10-07 10:15:00	
AMINOIL BOLSA CHICA 20101 GOLDEN W & PAC HUNTINGTON BEACH, CA 92649	SEMS-ARCHIVE Site ID: 0901336 EPA Id: CAD042137307	CAD042137307
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 424879 Incident Date Time: 1998-02-17 21:48:00	N/A
SHELL OIL-HUNTINGTON 20101 GOLDEN WEST ST HUNTINGTON BEACH, CA 92648	TSCA Chemical Number: 64741486	N/A
SHELL WESTERN E&P IN 20101 GOLDENWEST HUNTINGTON BEACH, CA 92648	LUST Database: LUST, Date of Government Version: 02/24/2025 Status: Completed - Case Closed Global Id: T0605900704 Cortese Cleanup Status: COMPLETED - CASE CLOSED	N/A
SHELL WESTERN E & P 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	CA FID UST Facility Id: 30006336 Status: A Orange Co. Ind Site Current Status: CLOSED Case ID: 91IC010	N/A
HUNTINGTON BEACH GAS 20101 GOLDEN W ST HUNTINGTON BEACH, CA 92648	TSCA Chemical Number: 64741486	N/A
SOCAL HOLDING LLC 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	FINDS Registry ID:: 110070387347 ECHO Registry ID: 110070387347	N/A
SOUTHERN CALIFORNIA 20101 GOLDENWEST STN HUNTINGTON BEACH, CA 92648	FINDS Registry ID:: 110066582102 Registry ID:: 110066515514	N/A

EXECUTIVE SUMMARY

20101 GOLDENWEST ST, 20101 GOLDENWEST ST, HUNTINGTON BEACH, CA 92648	CHMIRS OES Incident Number: 08-2945	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	CHMIRS OES Incident Number: 23-3000	N/A
SHELL WESTERN E & P, 20101 GOLDENWEST STR HUNTINGTON BEACH, CA	RGA LUST	N/A
ENSIGN - RIG 550 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ECHO Registry ID: 110071387016	N/A
OXY USA, INC. HUNTIN 20101 GOLDEN WEST ST HUNTINGTON BEACH, CA 92648	FINDS Registry ID:: 110071795869 Registry ID:: 110046317570 ECHO Registry ID: 110046317570	N/A
20101 GOLDENWEST STR 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 563438 Incident Date Time: 2001-04-19 16:15:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 462364 Incident Date Time: 1998-10-25 00:00:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 462292 Incident Date Time: 1998-11-02 03:30:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA	ERNS NRC Report #: 1275450 Incident Date Time: 4/15/2020 9:00	N/A
WELL #91-33, 20101 G WELL #91-33, 20101 G HUNTINGTON BEACH, CA	ERNS	N/A

EXECUTIVE SUMMARY

WELL #426-135, 20101 WELL #426-135, 20101 HUNTINGTON BEACH, CA	ERNS	N/A
20101 GOLDENWEST STR 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 542216 Incident Date Time: 2000-09-15 06:30:00	N/A
20101 GOLDENWEST STR 20101 GOLDENWEST STR HUNTINGTON BEACH, CA	ERNS NRC Report #: 545434 Incident Date Time: 2000-10-17 10:00:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 414872 Incident Date Time: 1997-12-06 10:00:00	N/A
CALRESOURCES LLC 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	UST Database: UST, Date of Government Version: 03/03/2025 Facility Id: 20	N/A
SOCAL HOLDING LLC 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	PFAS ECHO	N/A
20101 GOLDENWEST STR 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 500841 Incident Date Time: 1999-10-01 02:45:00	N/A
SHELL WESTERN E & P 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	HIST FTTS Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 438267 Incident Date Time: 1998-05-23 05:30:00	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS	N/A

EXECUTIVE SUMMARY

NRC Report #: 419366
Incident Date Time: 1998-01-12 08:15:00

OXY USA INC
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

SWF/LF N/A
Database: SWF/LF (SWIS), Date of Government Version: 02/03/2025
Facility ID: 30-AB-0012
Operational Status: Closed
Regulation Status: Exempt

CPS-SLIC
Database: CPS-SLIC, Date of Government Version: 02/24/2025
Global Id: SL208153870
Global Id: T10000018105
Facility Status: Completed - Case Closed

HIST UST
Facility Id: 00000057221

CHMIRS
OES Incident Number: 6-4566
OES Incident Number: 9-0817
OES Incident Number: 1-4016

EMI
Facility Id: 169754
Facility Id: 104017
Facility Id: 137729

HWTS
HAZNET
GEPAID: CAC002828234

CIWQS
CERS

20101 GOLDENWEST ST
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

ERNS N/A
NRC Report #: 532050
Incident Date Time: 2000-06-14 01:34:00

20101 GOLDENWEST STR
20101 GOLDENWEST STR
HUNTINGTON BEACH, CA

CHMIRS N/A
OES Incident Number: 20-2058

20101 GOLDENWEST STR
20101 GOLDENWEST STR
HUNTINGTON BEACH, CA 92648

ERNS N/A
NRC Report #: 542211
Incident Date Time: 2000-09-15 06:30:00

20101 GOLDENWEST ST
20101 GOLDENWEST ST
UNINCORPORATED COUNTY AREA, CA 92648

CHMIRS N/A

EXECUTIVE SUMMARY

	OES Incident Number: 0-3282	
SHELL WESTERN E&P IN 20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648	LUST Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0605900704 CHMIRS OES Incident Number: 17-2563 OES Incident Number: 8-1361	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 536356 Incident Date Time: 2000-07-24 08:50:00	N/A
N. BOLSA/WELL #61-B/ N. BOLSA/WELL #61-B/ HUNTINGTON BEACH, CA	ERNS	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 534354 Incident Date Time: 2000-07-05 07:50:00	N/A
AERA - HUNTINGTON BE 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	TSCA Chemical Number: 8006142	N/A
20101 GOLDENWEST STR 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	CHMIRS OES Incident Number: 9-2709 OES Incident Number: 3-5938	N/A
20101 GOLDENWEST ST. 20101 GOLDENWEST ST. HUNTINGTON BEACH, CA 92648	CHMIRS OES Incident Number: 0-4000	N/A
ENSIGN - RIG 550 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	RCRA NonGen / NLR EPA ID:: CAC003207849	CAC003207849

EXECUTIVE SUMMARY

SHELL WESTERN E&P IN 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	LUST Database: ORANGE CO. LUST, Date of Government Version: 02/05/2025 Facility Id: 88UT110 CERS HAZ WASTE HWTS HAZNET GEPAID: CAD981443807 NPDES Facility Status: Active CIWQS CERS	N/A
20101 GOLDENWEST/WEL 20101 GOLDENWEST/WEL HUNTINGTON BEACH, CA	ERNS	N/A
RECOVERY OXY HUNTING 20101 GOLDENWEST STR HUNTINGTON BEACH, CA 92648	NPDES CIWQS	N/A
AREA ENERGY LLC 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92646	PFAS ECHO	N/A
20101 GOLDENWEST ST 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	ERNS NRC Report #: 516084 Incident Date Time: 2000-01-03 21:05:00	N/A
SHELL WESTERN E&P IN 20101 GOLDEN WEST HUNTINGTON BEACH, CA 92648	UST FINDER RELEASE	N/A
OXY USA INC HUNTINGT 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	HAZNET GEPAID: CAD981443807	N/A
SHELL WESTERN E & P 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	FTTS Database: FTTS INSP, Date of Government Version: 04/09/2009	N/A
SO CAL HOLDING, LLC 20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92648	FINDS Registry ID:: 110041469862 Registry ID:: 110071387016 Registry ID:: 110071778887	N/A

EXECUTIVE SUMMARY

Registry ID:: 110071791774

ECHO
Registry ID: 110041469862

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

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ---------- State Response Sites

Lists of state and tribal leaking storage tanks

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register

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
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
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
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
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US MINES ..... Mines Master Index File
MINES MRDS ..... Mineral Resources Data System
ABANDONED MINES ..... Abandoned Mines
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
UXO ..... Unexploded Ordnance Sites
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
PFAS NPL ..... Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ..... Federal Sites PFAS Information
PFAS TRIS ..... List of PFAS Added to the TRI
PFAS TSCA ..... PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST ..... PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR ..... PFAS Contamination Site Location Listing
PFAS WQP ..... Ambient Environmental Sampling for PFAS
PFAS PROJECT ..... NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES ..... Clean Water Act Discharge Monitoring Information
PFAS ECHO FIRE TRAIN ..... Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT ..... All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC ..... Aqueous Foam Related Incidents Listing
BIOSOLIDS ..... ICIS-NPDES Biosolids Facility Data
UST FINDER ..... UST Finder Database
PFAS ..... PFAS Investigation Site Location Listing
AQUEOUS FOAM ..... Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN ..... Bond Expenditure Plan
CHROME PLATING ..... Chrome Plating Facilities Listing
CUPA Listings ..... CUPA Resources List
DRYCLEANERS ..... Cleaner Facilities
ENF ..... Enforcement Action Listing
Financial Assurance ..... Financial Assurance Information Listing

ICE ---- Inspection, Compliance and Enforcement
HWP ---- EnviroStor Permitted Facilities Listing
HWT ---- Registered Hazardous Waste Transporter Database
MINES ---- Mines Site Location Listing
MWMP ---- Medical Waste Management Program Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
HAZMAT ---- Hazardous Material Facilities
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

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

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status

indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/27/2025 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTER-THURMOND OIL Site ID: 0903194 EPA Id: CAD982359812	523 17TH ST	ESE 1/4 - 1/2 (0.441 mi.)	Y219	527

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/21/2025 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTER-THURMOND OIL Facility Id: 30130116 Status: Refer: Other Agency	523 17TH STREET	ESE 1/4 - 1/2 (0.441 mi.)	Y218	526
HUNTINGTON BEACH HS Facility Id: 60000095 Status: No Further Action	***1905 MAIN STREET***	***E 1/2 - 1 (0.951 mi.)***	***222***	***530***

Lower Elevation	Address	Direction / Distance	Map ID	Page
F C STATION #12 Facility Id: 80000244 Status: Inactive - Needs Evaluation		ESE 1/4 - 1/2 (0.498 mi.)	Z221	529

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOLSA CHICA SITES 1	2 -SITES -AT WEST EN	NNW 1/8 - 1/4 (0.188 mi.)	200	429
Database: SWF/LF (SWIS), Date of Government Version: 02/03/2025 Facility ID: 30-AB-0387 Operational Status: Closed Regulation Status: Unpermitted				
CHEVRON U.S.A. INC,	***20031 GOLDEN WEST ST***	***E 1/4 - 1/2 (0.401 mi.)***	***214***	***508***
Database: SWF/LF (SWIS), Date of Government Version: 02/03/2025 Facility ID: 30-AB-0170 Operational Status: Closed Regulation Status: Unpermitted				

Lists of state and tribal leaking storage tanks

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 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON	20031 S GOLDENWEST S	E 1/4 - 1/2 (0.424 mi.)	X216	511
Database: ORANGE CO. LUST, Date of Government Version: 02/05/2025 Facility Id: 89UT184				
CHEVRON USA INC HUNT	***20031 GOLDEN WEST AV***	***E 1/4 - 1/2 (0.424 mi.)***	***X217***	***512***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 02/24/2025 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0605901025 Global ID: T0605901025				

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 6 CPS-SLIC sites

within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARRIETT WEIDER REGI	***19251 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G85***	***304***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000017841 Facility Status: Completed - Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AERA ENERGY, LLC	***UNK PCH & GOLDENWEST***	***SE 0 - 1/8 (0.019 mi.)***	***P183***	***380***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000020536 Facility Status: Completed - Case Closed				
F V GROUP LLC PROPER	***UNK NE PCH & GOLDENW***	***SE 0 - 1/8 (0.019 mi.)***	***P184***	***381***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000020606 Facility Status: Completed - Case Closed				
FORT APACHE	***1810 PACIFIC COAST H***	***SE 1/4 - 1/2 (0.312 mi.)***	***211***	***467***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000021201 Facility Status: Open - Site Assessment				
STATE LANDS COMMISSI	***1700 PACIFIC COAST H***	***SE 1/4 - 1/2 (0.370 mi.)***	***212***	***469***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000018002 Facility Status: Completed - Case Closed				
309 17TH ST, HB	***309 17TH STREET***	***SE 1/4 - 1/2 (0.381 mi.)***	***213***	***506***
Database: CPS-SLIC, Date of Government Version: 02/24/2025 Global Id: T10000022574 Facility Status: Open - Site Assessment				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTINGTON SEACLIFF	6501 PALM AVE	ENE 0 - 1/8 (0.099 mi.)	T193	414
Database: UST, Date of Government Version: 03/03/2025 Facility Id: 4770				

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 is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	6501 PALM AVE	ENE 0 - 1/8 (0.099 mi.)	T194	415
Database: AST, Date of Government Version: 07/06/2016				

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 is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON U.S.A. INC,	***20031 GOLDEN WEST ST***	***E 1/4 - 1/2 (0.401 mi.)***	***214***	***508***

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 is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTINGTON SEACLIFF	***6501 PALM AVE***	***ENE 0 - 1/8 (0.099 mi.)***	***T192***	***401***
Status: A				
Tank Status: A				
Comp Number: 4770				

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/14/2025 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTINGTON SEACLIFF	***6501 PALM AVE***	***ENE 0 - 1/8 (0.099 mi.)***	***T192***	***401***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
KIBLER HALL	***317 20TH ST***	***ESE 1/8 - 1/4 (0.204 mi.)***	***205***	***444***

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 is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUNTINGTON SEACLIFF Facility Id: 30013239 Status: A	***6501 PALM AVE***	***ENE 0 - 1/8 (0.099 mi.)***	***T192***	***401***

Records of Emergency Release Reports

The Orange County Industrial Site Cleanups list comes from the Health Care Agency.

A review of the Orange Co. Ind Site list, as provided by EDR, and dated 02/05/2025 has revealed that there is 1 Orange Co. Ind Site site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARRIETT WEIDER REGI Current Status: CLOSED Case ID: 03IC019	***19251 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G85***	***304***

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 06/02/2025 has revealed that there are 16 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
6651 FEATHER DRIVE EPA ID:: CAC003195687	***6651 FEATHER DRIVE***	***ESE 0 - 1/8 (0.090 mi.)***	***187***	***383***
SEACLIFF COUNTRY CLU EPA ID:: CAL000060465	6501 PALM AVE	ENE 0 - 1/8 (0.099 mi.)	T189	390
THE HUNTINGTON CLUB EPA ID:: CAL000477172	***6501 PALM AVENUE***	***ENE 0 - 1/8 (0.099 mi.)***	***T190***	***393***
BRIGHTVIEW GOLF AT S EPA ID:: CAL000463310	***6501 PALM AVE BUILD***	***ENE 0 - 1/8 (0.099 mi.)***	***T191***	***397***
ANGELA WANG EPA ID:: CAC003262474	406 22ND ST UNIT A	ESE 1/8 - 1/4 (0.158 mi.)	V196	416
MIKE Q NGUYEN EPA ID:: CAC003095817	***418 22ND ST***	***ESE 1/8 - 1/4 (0.182 mi.)***	***V199***	***425***

EPA ID:: CAC003090861				
SUN SUE KHALIL EPA ID:: CAC003191043	***422 22ND ST UNIT B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V201***	***430***
422 22ND ST #B EPA ID:: CAC003168478	***422 22ND ST #B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V202***	***434***
SUE KHALIL EPA ID:: CAC003331096	422 22ND ST #B	ESE 1/8 - 1/4 (0.190 mi.)	V203	438
SUE KHALIL EPA ID:: CAC003172234	***422 22ND ST APT B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V204***	***440***
CHARLES GRIGER EPA ID:: CAC003099456	***426 21ST STREET***	***ESE 1/8 - 1/4 (0.231 mi.)***	***207***	***451***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN WEST PROPERTY EPA ID:: CAC002978075	***2000 PACIFIC COAST H***	***SE 1/8 - 1/4 (0.166 mi.)***	***U197***	***419***
KIM MUNOZ EPA ID:: CAC003269518	***214 20TH ST, UNIT C***	***SE 1/8 - 1/4 (0.210 mi.)***	***W206***	***447***
HB RENTALS EPA ID:: CAC003171591	***205 19TH ST. UNIT A***	***SE 1/8 - 1/4 (0.247 mi.)***	***W208***	***455***
JONAH VILLA EPA ID:: CAC003260295	***213 19TH ST UNIT 2***	***SE 1/8 - 1/4 (0.247 mi.)***	***W209***	***459***
JONAH VILLA EPA ID:: CAC003261862	***213 19TH ST UNIT 1***	***SE 1/8 - 1/4 (0.247 mi.)***	***W210***	***463***

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 01/30/2025 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIRE CONTROL STATION		ESE 1/4 - 1/2 (0.496 mi.)	Z220	528

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 03/24/2025 has revealed that there is 1 PFAS ECHO site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SO CAL HOLDING, LLC		ESE 1/8 - 1/4 (0.177 mi.)	198	423

EXECUTIVE SUMMARY

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON	20031 GOLDENWEST	E 1/4 - 1/2 (0.424 mi.)	X215	511

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 02/17/2025 has revealed that there are 14 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
6651 FEATHER DRIVE	***6651 FEATHER DRIVE***	***ESE 0 - 1/8 (0.090 mi.)***	***187***	***383***
BRIGHTVIEW GOLF AT S	6501 PALM AVE BUILD	ENE 0 - 1/8 (0.099 mi.)	T188	387
THE HUNTINGTON CLUB	***6501 PALM AVENUE***	***ENE 0 - 1/8 (0.099 mi.)***	***T190***	***393***
BRIGHTVIEW GOLF AT S	***6501 PALM AVE BUILD***	***ENE 0 - 1/8 (0.099 mi.)***	***T191***	***397***
MIKE Q NGUYEN	***418 22ND ST***	***ESE 1/8 - 1/4 (0.182 mi.)***	***V199***	***425***
SUN SUE KHALIL	***422 22ND ST UNIT B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V201***	***430***
422 22ND ST #B	***422 22ND ST #B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V202***	***434***
SUE KHALIL	***422 22ND ST APT B***	***ESE 1/8 - 1/4 (0.190 mi.)***	***V204***	***440***
CHARLES GRIGER	***426 21ST STREET***	***ESE 1/8 - 1/4 (0.231 mi.)***	***207***	***451***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN WEST PROPERTY	***2000 PACIFIC COAST H***	***SE 1/8 - 1/4 (0.166 mi.)***	***U197***	***419***
KIM MUNOZ	***214 20TH ST, UNIT C***	***SE 1/8 - 1/4 (0.210 mi.)***	***W206***	***447***
HB RENTALS	***205 19TH ST. UNIT A***	***SE 1/8 - 1/4 (0.247 mi.)***	***W208***	***455***
JONAH VILLA	***213 19TH ST UNIT 2***	***SE 1/8 - 1/4 (0.247 mi.)***	***W209***	***459***
JONAH VILLA	***213 19TH ST UNIT 1***	***SE 1/8 - 1/4 (0.247 mi.)***	***W210***	***463***

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/17/2025 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON USA INC HUNT	***20031 GOLDEN WEST AV***	***E 1/4 - 1/2 (0.424 mi.)***	***X217***	***512***

Cleanup Status: COMPLETED - CASE CLOSED

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SHELL WESTERN E & P, Reg Id: 083001149T	21ST ST	SE 1/8 - 1/4 (0.151 mi.)	U195	416

HWTS: DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

A review of the HWTS list, as provided by EDR, and dated 07/19/2024 has revealed that there are 5 HWTS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEWIT PACIFIC	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G87***	***310***
FISH & WILDLIFE	19499 SEAPOINT AVE	0 - 1/8 (0.000 mi.)	G89	316
ROSS ISLAND SAND & G	***19499 SEAPOINT ST***	***0 - 1/8 (0.000 mi.)***	***G90***	***316***
KIEWIT PACIFIC	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G91***	***318***
ENSIGN USD - RIG 550	LAT/LONG_USED	0 - 1/8 (0.000 mi.)	C117	337

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2024 has revealed that there are 3 HAZNET sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEWIT PACIFIC GEPAID: CAC002583494	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G87***	***310***
ROSS ISLAND SAND & G GEPAID: CAC002600878	***19499 SEAPOINT ST***	***0 - 1/8 (0.000 mi.)***	***G90***	***316***
KIEWIT PACIFIC GEPAID: CAC002602119	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G91***	***318***

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 02/03/2025 has revealed that there are 3 NPDES sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOLSA CHICA LOWLANDS	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G81***	***300***
BOLSA CHICA LOWLANDS	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G86***	***305***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OM 2501 MSA METER RE	*ON GOLDENWEST STREET*	*0 - 1/8 (0.000 mi.)*	*180*	*376*

UIC: A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

A review of the UIC list, as provided by EDR, and dated 02/27/2025 has revealed that there are 112 UIC sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	B58	286
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	B59	287
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	C60	287
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	B61	288
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	B62	288
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	B63	289
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	C64	290
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	C65	290
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	C66	291
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	B67	291
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	C68	292
CHEVRON U.S.A. INC. Well Status: Plugged		0 - 1/8 (0.000 mi.)	D69	293
CHEVRON U.S.A. INC. Well Status: Plugged		0 - 1/8 (0.000 mi.)	E70	293
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	B71	294
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	F72	294
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	B73	295
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	B74	296
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	B75	296
CALIFORNIA RESOURCES		0 - 1/8 (0.000 mi.)	B76	297

Well Status: Active			
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	B77	297
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	D78	298
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	F79	299
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	B80	299
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	C82	302
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	G88	315
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	B92	322
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	C93	322
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	C94	323
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	C95	323
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	C96	324
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	H97	325
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	H98	325
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	H100	326
CHEVRON U.S.A. INC. Well Status: Plugged	0 - 1/8 (0.000 mi.)	E101	327
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	B102	328
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	I103	328
CHEVRON U.S.A. INC. Well Status: Plugged	0 - 1/8 (0.000 mi.)	E104	329
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	I105	329
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	F106	330
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	C107	331
CHEVRON U.S.A. INC. Well Status: Plugged	0 - 1/8 (0.000 mi.)	J108	331
CALIFORNIA RESOURCES	0 - 1/8 (0.000 mi.)	I109	332

Well Status: Plugged			
CHEVRON U.S.A. INC. Well Status: Plugged	0 - 1/8 (0.000 mi.)	I110	332
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	F111	333
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	I112	334
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	I113	334
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	F114	335
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	I115	335
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	C116	336
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	K118	338
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	E119	338
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	L120	339
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	L121	339
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	F122	340
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	K123	341
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	K124	341
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	K125	342
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	M126	342
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	L127	343
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	N128	344
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	M129	344
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	N130	345
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	N131	345
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	N132	346
CALIFORNIA RESOURCES	0 - 1/8 (0.000 mi.)	N133	347

Well Status: Plugged			
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	M134	347
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	M135	348
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	O136	348
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	M137	349
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	L139	352
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	A140	352
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	A141	353
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	O142	353
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	M143	354
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	O144	355
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	L145	355
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	L146	356
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	M147	356
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	L148	357
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	Q150	358
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	R151	359
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	Q152	359
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	Q153	360
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	R155	361
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	R157	362
CALIFORNIA RESOURCES Well Status: Active	0 - 1/8 (0.000 mi.)	S159	364
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	N161	365
CALIFORNIA RESOURCES	0 - 1/8 (0.000 mi.)	Q162	365

Well Status: Active				
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	S164	367
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	N165	367
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	S166	368
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	P167	368
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	N168	369
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	R169	370
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	N170	370
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	Q174	373
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	R175	373
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	Q176	374
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	N177	374
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	Q178	375
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	N182	379

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	P149	358
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	P154	361
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	P156	362
CALIFORNIA RESOURCES Well Status: Idle		0 - 1/8 (0.000 mi.)	P158	363
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	P160	364
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	P163	366
CALIFORNIA RESOURCES Well Status: Plugged		0 - 1/8 (0.000 mi.)	P171	371
CALIFORNIA RESOURCES Well Status: Active		0 - 1/8 (0.000 mi.)	P172	371
CALIFORNIA RESOURCES		0 - 1/8 (0.000 mi.)	P173	372

Well Status: Plugged			
CALIFORNIA RESOURCES Well Status: Plugged	0 - 1/8 (0.000 mi.)	P179	376
CALIFORNIA RESOURCES Well Status: Idle	0 - 1/8 (0.000 mi.)	P181	379

CIWQS: 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.

A review of the CIWQS list, as provided by EDR, and dated 05/06/2025 has revealed that there are 5 CIWQS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOLSA CHICA LOWLANDS	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G81***	***300***
HARRIETT M WIEDER RE	19251 SEAPOINT AVE	0 - 1/8 (0.000 mi.)	G84	303
BOLSA CHICA LOWLANDS	***19499 SEAPOINT AVE***	***0 - 1/8 (0.000 mi.)***	***G86***	***305***
19251 SEAPOINT ST	19251 SEAPOINT ST	0 - 1/8 (0.000 mi.)	G99	326
OM 2501 MSA METER RE	***ON GOLDENWEST STREET***	***0 - 1/8 (0.000 mi.)***	***180***	***376***

CERS: 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

A review of the CERS list, as provided by EDR, and dated 04/14/2025 has revealed that there are 2 CERS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARRIETT WEIDER REGI	19251 SEAPOINT AVE	0 - 1/8 (0.000 mi.)	G83	303
PLATFORM EMMY	1.3 MILES OFFSHORE	0 - 1/8 (0.000 mi.)	A138	350

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

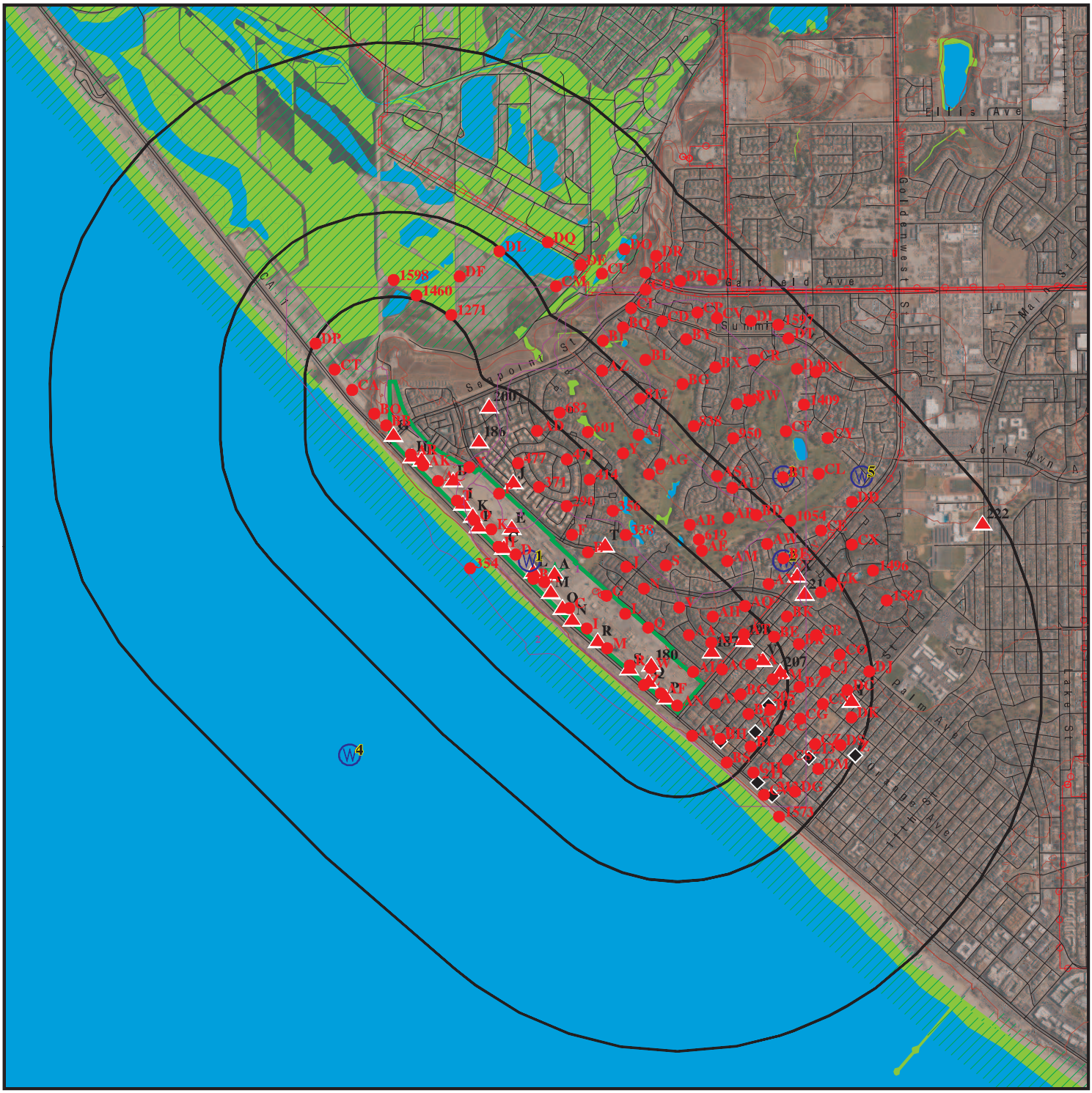
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BP ANDREEA MOYES	6032 PANORAMA DR	NNW 0 - 1/8 (0.043 mi.)	J185	383
GARFIELD CHEVRON	19382 MAIDSTONE LN	NNW 0 - 1/8 (0.083 mi.)	186	383

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
ROGER'S CABLE COMPANY (FORMER)	LUST, Cortese
CITY OF HUNTINGTON BEACH LANDFILL	RGA LF
CITY OF HUNTINGTON BEACH	RGA LF

OVERVIEW MAP - 8040226.2S



0 1/4 1/2 1 Miles

- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CRC Huntington Beach	CLIENT:	Langan
ADDRESS:	20101 Goldenwest Street Huntington Beach CA 92648	CONTACT:	Katherine Thomas
LAT/LONG:	33.674487 / 118.023703	INQUIRY #:	8040226.2s
		DATE:	July 08, 2025 11:18 am

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DETAIL MAP - 8040226.2S



- 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
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CRC Huntington Beach	CLIENT:	Langan
ADDRESS:	20101 Goldenwest Street Huntington Beach CA 92648	CONTACT:	Katherine Thomas
LAT/LONG:	33.674487 / 118.023703	INQUIRY #:	8040226.2s
		DATE:	July 08, 2025 11:24 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500	1	0	0	1	NR	NR	2
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001	22	0	NR	NR	NR	NR	22
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	2	1	NR	3
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500	1	0	1	1	NR	NR	3

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
Lists of state and tribal leaking storage tanks								
LUST	0.500	3	0	0	2	NR	NR	5
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500	1	3	0	3	NR	NR	7
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	1	0	NR	NR	NR	2
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	1	NR	NR	1
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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250	1	0	0	NR	NR	NR	1
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	0	NR	NR	NR	1
HIST UST	0.250	1	0	0	NR	NR	NR	1
CERS TANKS	0.250		1	1	NR	NR	NR	2
CA FID UST	0.250	1	1	0	NR	NR	NR	2
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	9	0	NR	NR	NR	NR	9
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
Orange Co. Ind Site	0.001	1	1	NR	NR	NR	NR	2
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	4	12	NR	NR	NR	17
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	5	0	NR	NR	NR	NR	5
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001	1	0	NR	NR	NR	NR	1
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	1	0	NR	NR	NR	NR	1
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	5	0	NR	NR	NR	NR	5
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	4	0	NR	NR	NR	NR	4
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250	2	0	1	NR	NR	NR	3
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500	1	0	0	1	NR	NR	2
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250	1	4	10	NR	NR	NR	15
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500	1	0	0	1	NR	NR	2
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001	2	0	NR	NR	NR	NR	2
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	1	0	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001	2	5	NR	NR	NR	NR	7
HAZNET	0.001	3	3	NR	NR	NR	NR	6
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001	2	3	NR	NR	NR	NR	5
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	0.001		112	NR	NR	NR	NR	112
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	3	5	NR	NR	NR	NR	8
CERS	0.001	2	2	NR	NR	NR	NR	4
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	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
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001	1	0	NR	NR	NR	NR	1
RGA LUST	0.001	1	0	NR	NR	NR	NR	1
- Totals --		83	149	26	13	1	0	272

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN
20101 GOLDENWEST AVE
HUNTINGTON BEACH, CA 92648

Site 1 of 60 in cluster A

Actual:
37 ft.

RCRA-SQG **1000287711**
CHMIRS **CAD981443807**
ICIS
US AIRS
E MANIFEST
EMI

RCRA Listings:

Date Form Received by Agency:		20111107
Handler Name:		Oxy Usa Inc Huntington Beach
Handler Address:		20101 Goldenwest Ave
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAD981443807
Contact Name:		DIANA LANG
Contact Address:		111 W OCEAN BLVD
Contact City,State,Zip:		LONG BEACH, CA 90802
Contact Telephone:		562-624-3314
Contact Fax:		562-624-3224
Contact Email:		DIANA_LANG@OXY.COM
Contact Title:		REGULATORY ENV COORD
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		111 W OCEAN BLVD
Mailing City,State,Zip:		LONG BEACH, CA 90802
Owner Name:	Oxy Usa Inc	
Owner Type:		Private
Operator Name:	Oxy Usa Inc	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20111117
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D009
Waste Description:	Mercury
Waste Code:	F003
Waste Description:	The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: OXY USA INC	
Legal Status:	Private
Date Became Current:	20111101
Date Ended Current:	Not reported
Owner/Operator Address:	301 E OCEAN BLVD
Owner/Operator City,State,Zip:	LONG BEACH, CA 90802
Owner/Operator Telephone:	562-495-9348
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Owner/Operator Indicator:	Owner
Owner/Operator Name: AERA ENERGY L L C	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 11164
Owner/Operator City,State,Zip:	BAKERSFIELD, CA 93389-1164
Owner/Operator Telephone:	805-326-5641
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AERA ENERGY L L C	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 11164
Owner/Operator City,State,Zip:	BAKERSFIELD, CA 93389-1164
Owner/Operator Telephone:	805-326-5641
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: OXY USA INC	
Legal Status:	Private
Date Became Current:	20111101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AERA ENERGY L L C	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 11164
Owner/Operator City,State,Zip:	BAKERSFIELD, CA 93389-1164
Owner/Operator Telephone:	805-326-5641
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19980514
Handler Name:	AERA HUNTINGTON BEACH UNIT
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980514
Handler Name: AERA HUNTINGTON BEACH UNIT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20111109
Handler Name: AERA HUNTINGTON BEACH UNIT
Federal Waste Generator Description: Not reported
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20111107
Handler Name: OXY USA INC HUNTINGTON BEACH
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940329
Handler Name: SHELL WESTERN E & P INC-HUNTINGTON BEACH
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

List of NAICS Codes and Descriptions:
NAICS Code: 211111
NAICS Description: Crude Petroleum And Natural Gas Extraction

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20061211
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19940706
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

CHMIRS:
Name: Not reported
Address: 20101 GOLDEN WEST ST

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	1-6371
OES notification:	11/04/2001
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:	Yes
Waterway:	Bolsa Chica Wetlands
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	AERA Energy
Incident Date:	11/4/200112:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Oil Field
E Date:	Not reported
Substance:	Produced water;;;
BBLS:	5
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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

#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:	Leak developed in a buried water injection pipeline. Pipeline has been shut down and no longer leaking.
Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	2-4083
OES notification:	07/27/2002
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
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:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	AERA Energy

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Incident Date:	7/27/200212:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Oil
Gallons:	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:	Per caller, vandalism may have caused the release from a well.
Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	987
OES notification:	Not reported
OES Date:	4/30/1994
OES Time:	07:45:53 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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	BOLSA VECHICA BIRD SANTUARY
Spill Site:	Not reported
Cleanup By:	SHELL WESTERN
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	shell western
Incident Date:	4/29/94 2110
Admin Agency:	Not reported
Amount:	10GALS 20GALS
Contained:	YES
Site Type:	O/F
E Date:	Not reported
Substance:	CRUDE OIL PRODUCED WATER
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:	MECHANICAL FAILURE OF BOOSTER PUMP
Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	8-5806
OES notification:	12/31/1998
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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

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:	AERA Energy
Incident Date:	12/31/199812:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
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:	Pinhole leak in a 4" gathering line. Went into a dry area of a wet cell, isolated and contained.
Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	8-0813

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

OES notification:	02/17/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	BOLSA CHICA WETLANDS
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:	AREA ENERGY
Incident Date:	2/17/199812:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Oil Field
E Date:	Not reported
Substance:	CRUDE OIL
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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

#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 STORM WATER TRANSFER SUBSTANCE ACCIDENTALLY ESCAPED.
Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	8-0159
OES notification:	01/13/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	BOLSA CHICA WETLANDS
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:	AERA ENERGY
Incident Date:	1/13/199812:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	CRUDE OIL
Gallons:	0.000000
Pints:	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:	SKIMMED OVERFLOW.

Name:	Not reported
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	09877
OES notification:	Not reported
OES Date:	9/5/1995
OES Time:	12:14:41 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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Waterway:	bolsa chica wet-cell
Spill Site:	Not reported
Cleanup By:	cal resources
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1995
Agency:	cal resources
Incident Date:	1015/05sept95
Admin Agency:	Not reported
Amount:	10 gal 500 gals
Contained:	YES
Site Type:	OTHER
E Date:	Not reported
Substance:	crude oil produced water
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:	spilled in bolsa chica wetlands from flowline leak. no outlet to coastal waters

ICIS:

Enforcement Action ID:	CASCAA200129830
FRS ID:	110041469862
Action Name:	NOVs P37241, P37242 RULE 2004(f)(1)
Facility Name:	SO CAL HOLDINGS
Facility Address:	20101 GOLDENWEST ST HUNTINGTON BEACH, CA 92646
Enforcement Action Type:	Notice of Violation
Facility County:	ORANGE
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	1311
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	33.674000
Longitude in Decimal Degrees:	-118.011000
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000605900025
Facility NAICS Code:	211111
Tribal Land Code:	Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Enforcement Action ID: CASCAA0000060590002500044
FRS ID: 110041469862
Action Name: OXY USA INC 060590002500044
Facility Name: SO CAL HOLDINGS
Facility Address: 20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92646
Enforcement Action Type: Administrative Order
Facility County: ORANGE
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 1311
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.674000
Longitude in Decimal Degrees: -118.011000
Permit Type Desc: Not reported
Program System Acronym: CASCA0000605900025
Facility NAICS Code: 211111
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060590002500043
FRS ID: 110041469862
Action Name: OXY USA INC 060590002500043
Facility Name: SO CAL HOLDINGS
Facility Address: 20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92646
Enforcement Action Type: Notice of Violation
Facility County: ORANGE
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 1311
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.674000
Longitude in Decimal Degrees: -118.011000
Permit Type Desc: Not reported
Program System Acronym: CASCA0000605900025
Facility NAICS Code: 211111
Tribal Land Code: Not reported

US AIRS (AFS):
Region Code: 09
County Code: CA059
Programmatic ID: AIR CASCA0000605900025
Facility Registry ID: 110041469862
D and B Number: Not reported
Facility Site Name: So Cal Holdings
Primary SIC Code: 1311
NAICS Code: 211111
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

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Programmatic ID: AIR CASCA0000605900025
Facility Registry ID: 110041469862
Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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

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

Air Program: Title V Permits
Activity Date: 2009-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Title V Permits
Activity Date: 2009-09-22 00:00:00
Activity Status Date: Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Title V Permits
Activity Date: 2009-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Title V Permits
Activity Date: 2008-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Title V Permits
Activity Date: 2005-04-28 00:00:00
Activity Status Date: 2005-04-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-04-28 00:00:00
Activity Status Date: 2005-04-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-01-11 00:00:00
Activity Status Date: 2005-01-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Air Program: Title V Permits
Activity Date: 2005-01-11 00:00:00
Activity Status Date: 2005-01-11 00:00:00
Activity Group: Enforcement Action

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Type: Administrative - Informal
Activity Status: Achieved

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-11-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Title V Permits
Activity Date: 2003-11-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1997-09-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-09-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1994-03-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-03-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1994-03-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1993-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1993-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-02-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1992-02-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1991-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1991-03-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-06-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1990-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1990-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1989-12-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-12-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1988-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Date: 1988-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1988-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1988-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1987-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1987-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-06-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1986-05-05 00:00:00

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1986-05-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1985-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
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

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-11-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1984-09-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: Prevention of Significant Deterioration of Air Quality
Activity Date: 1984-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-01-24 00:00:00
Activity Status Date: Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1983-12-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-12-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1983-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: New Source Performance Standards
Activity Date: 1982-12-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-12-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-06-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-05-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

E MANIFEST:
Manifest Tracking Number: 016506176JJK
Last Updated Date: 20190708
Shipped Date: 20190603
Received Date: 20190607
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAD981443807
Generator Name: Socal Holding Llc - Huntington Beach Facility
Generator Location Street Number: Not reported
Generator Location Street 1: 20101 GOLDENWEST ST
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA
Generator Location Zip: 92648-2628
Generator Mail Street Number: Not reported
Generator Mail Street 1: 111 W OCEAN BLVD STE 800
Generator Mail Street 2: Not reported
Generator Mail City: LONG BEACH
Generator Mail Zip: 90802
Generator Mail State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: CAD028409019
Designated Facility Name: Crosby & Overton

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	016506309JJK
Last Updated Date:	20200127
Shipped Date:	20191220
Received Date:	20191227
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding Llc - Huntington Beach Facility
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST ST
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648-2628
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	111 W OCEAN BLVD STE 800
Generator Mail Street 2:	Not reported
Generator Mail City:	LONG BEACH
Generator Mail Zip:	90802
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	1630
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	1630
Designated Facility Location Street 1:	W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021617089JJK

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Last Updated Date:	20210716
Shipped Date:	20210614
Received Date:	20210618
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding Llc / Socal Holding L.A. Basin
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST AVE
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	1 WORLD TRADE CENTER, SUITE 1500
Generator Mail Street 2:	STE 800
Generator Mail City:	LONG BEACH
Generator Mail Zip:	90831
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	1630
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	1630
Designated Facility Location Street 1:	W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021617174JJK
Last Updated Date:	20211112
Shipped Date:	20211021
Received Date:	20211022
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAD981443807
Generator Name:	Oxy Usa Inc Huntington Beach
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST AVE
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	1 WORLD TRADE CENTER, SUITE 1500
Generator Mail Street 2:	STE 800

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Generator Mail City:	Long Beach
Generator Mail Zip:	90831
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	1630
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	1630
Designated Facility Location Street 1:	W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021617197JJK
Last Updated Date:	20220107
Shipped Date:	20211207
Received Date:	20211217
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding Llc
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST STREET
Generator Location Street 2:	SOCAL HOLDING/ L.A. BASIN
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	1 WORLD TRADE CENTER SUITE 1500
Generator Mail Street 2:	Not reported
Generator Mail City:	LONG BEACH
Generator Mail Zip:	90831
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	1630
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	1630
Designated Facility Location Street 1:	W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	025747055JJK
Last Updated Date:	20240304
Shipped Date:	20240212
Received Date:	20240216
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding-La Basin
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST STREET
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20101 GOLDENWEST STREET
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	1630
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	1630
Designated Facility Location Street 1:	W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	025747495JJK
Last Updated Date:	20230808
Shipped Date:	20230718
Received Date:	20230721
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding-La Basin
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST STREET
Generator Location Street 2:	Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20101 GOLDENWEST STREET
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	016506134JJK
Last Updated Date:	20191106
Shipped Date:	20190228
Received Date:	20190305
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding Llc - Huntington Beach Facility
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST ST
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648-2628
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	111 W OCEAN BLVD STE 800
Generator Mail Street 2:	Not reported
Generator Mail City:	LONG BEACH
Generator Mail Zip:	90802
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	CA90813 CA037US 1630
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	023015062JJK
Last Updated Date:	20220803
Shipped Date:	20220707
Received Date:	20220715
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding-La Basin
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST STREET
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20101 GOLDENWEST STREET
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	023015258JJK
Last Updated Date:	20230110
Shipped Date:	20221213
Received Date:	20221216
Manifest Status:	Signed
Submission Type:	DataImage5Copy

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Origin Type:	Service
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding-La Basin
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST STREET
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20101 GOLDENWEST STREET
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019
Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	023015328JJK
Last Updated Date:	20230308
Shipped Date:	20230209
Received Date:	20230217
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAD981443807
Generator Name:	Socal Holding Llc
Generator Location Street Number:	Not reported
Generator Location Street 1:	20101 GOLDENWEST ST
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20101 GOLDENWEST ST
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD028409019

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Designated Facility Name:	Crosby & Overton
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1630 W. 17TH STREET
Designated Facility Mail City:	LONG BEACH
Designated Facility Mail Zip:	90813
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1630 W. 17TH STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LONG BEACH
Designated Facility Location Zip:	90813
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	026172893JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000181560
Transporter Name:	Remedial Transportation Services Inc Dba Rts

Waste Line:

Manifest Tracking Number:	026172893JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	(R.Q.) Asbestos, 9, Xxxxxx, Pg Iii Na2212
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	CM
Container Type Description:	Metal boxes, cartons, cases (including roll offs)
Waste Quantity:	40
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	33.6
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	33.6
Waste Quantity, in Kilograms:	30476.208
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	30476.208
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	30476.208
Quantity Non Haz Tons:	33.6
State Waste Codes:	CA-151

Click this hyperlink while viewing on your computer to access
3 additional US EManifest: record(s) in the EDR Site Report.

EMI:

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 926480000
Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	800241
Air District Name:	SC
SIC Code:	1311
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:	1892
Reactive Organic Gases Tons/Yr:	866
Carbon Monoxide Emissions Tons/Yr:	315
NOX - Oxides of Nitrogen Tons/Yr:	1647
SOX - Oxides of Sulphur Tons/Yr:	9
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 926480000
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	800241
Air District Name:	SC
SIC Code:	1311
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:	1236
Reactive Organic Gases Tons/Yr:	614
Carbon Monoxide Emissions Tons/Yr:	63
NOX - Oxides of Nitrogen Tons/Yr:	494
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 926480000
Year:	1995

SOCAL HOLDING LLC / SOCAL HOLDING L.A. BASIN (Continued) **1000287711**

County Code:	30
Air Basin:	SC
Facility ID:	800241
Air District Name:	SC
SIC Code:	1311
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:	279
Reactive Organic Gases Tons/Yr:	98
Carbon Monoxide Emissions Tons/Yr:	46
NOX - Oxides of Nitrogen Tons/Yr:	232
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A2 **SHELL PROCESSING FACILITY** **RGA LF** **S114732628**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA

Site 2 of 60 in cluster A

Actual: 37 ft.

RGA LF:

Name:	SHELL PROCESSING FACILITY		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1997	SHELL PROCESSING FACILITY	20101 GOLDENWEST STREET
Name:	SHELL PROCESSING FACILITY		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1996	SHELL PROCESSING FACILITY	20101 GOLDENWEST STREET
Name:	SHELL PROCESSING FACILITY		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1995	SHELL PROCESSING FACILITY	20101 GOLDENWEST STREET

A3 **AERA-HUNTINGTON BEACH DCU** **TSCA** **1007088155**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA 92648

Site 3 of 60 in cluster A

Actual: 37 ft.

TSCA:

Site Name:	AERA-HUNTINGTON BEACH DCU
Site Address:	20101 GOLDENWEST STREET
Site City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site County:	Not reported
Facility ID:	Not reported

TSCA 1986-2002:

Manufacturer/Importer Status:	Manufacture
CBIMFIM:	No
Company Name:	AERA ENERGY LLC
TSCA Name:	AERA-HUNTINGTON BEACH DCU
Facility Address:	20101 GOLDENWEST STREET

AERA-HUNTINGTON BEACH DCU (Continued) **1007088155**

Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 8006142
Chemical Name: Natural gas

1986-2002 Chemical:
Case Number: 8006-14-2
Preferred CA Index Name: Natural gas
Submitter Name: Natural gas; Synthetic natural gas
Chemical Substance Definition: Raw natural gas, as found in nature, or a gaseous combination of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 separated from raw natural gas by the removal of natural gas condensate, natural gas liquid, and natural g
Former Case Number: Not reported
Molecular Formula: Unspecified
UVCB Flag: UVCB
EPA Inventory Flag: Not reported

1986-2002 CUSAGG:
Case Number: 8006142
Range 86: > 1B
Range 90: > 1B
Range 94: > 1B
Range 98: > 1B
Range 02: > 1B
Chemical Name: Natural gas

A4 Target Property **SHELL-HUNTINGTON BEACH GAS PLANT** **TSCA** **1005932223**
20101 GOLDEN W. ST. **N/A**
HUNTINGTON BEACH, CA 92648

Site 4 of 60 in cluster A

Actual: 37 ft.

TSCA:
Site Name: SHELL-HUNTINGTON BEACH GAS PLANT
Site Address: 20101 GOLDEN W. ST.
Site City,State,Zip: HUNTINGTON BEACH, CA 92648
Site County: Not reported
Facility ID: Not reported

TSCA 1986-2002:
Manufacturer/Importer Status: Manufacture
CBIMFIM: No
Company Name: SHELL OIL CO.
TSCA Name: SHELL-HUNTINGTON BEACH GAS PLANT
Facility Address: 20101 GOLDEN W. ST.
Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 8006142
Chemical Name: Natural gas

1986-2002 Chemical:
Case Number: 8006-14-2
Preferred CA Index Name: Natural gas
Submitter Name: Natural gas; Synthetic natural gas
Chemical Substance Definition: Raw natural gas, as found in nature, or a gaseous combination of hydrocarbons having carbon numbers predominantly in the range of C1

SHELL-HUNTINGTON BEACH GAS PLANT (Continued) **1005932223**

through C4 separated from raw natural gas by the removal of natural gas condensate, natural gas liquid, and natural g
Former Case Number: Not reported
Molecular Formula: Unspecified
UVCB Flag: UVCB
EPA Inventory Flag: Not reported

1986-2002 CUSAGG:
Case Number: 8006142
Range 86: > 1B
Range 90: > 1B
Range 94: > 1B
Range 98: > 1B
Range 02: > 1B
Chemical Name: Natural gas

Manufacturer/Importer Status: Manufacture
CBIMFIM: No
Company Name: SHELL OIL CO.
TSCA Name: SHELL-HUNTINGTON BEACH GAS PLANT
Facility Address: 20101 GOLDEN W. ST.
Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 64741486
Chemical Name: Natural gas, petroleum, raw liq. mix

1986-2002 Chemical:
Case Number: 64741-48-6
Preferred CA Index Name: Natural gas (petroleum), raw liq. mix
Submitter Name: Natural gas liquid; Natural gas liquids
Chemical Substance Definition: A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C2 th
Former Case Number: Not reported
Molecular Formula: Unspecified
UVCB Flag: UVCB
EPA Inventory Flag: Not reported

1986-2002 CUSAGG:
Case Number: 64741486
Range 86: > 1B
Range 90: > 1B
Range 94: > 1B
Range 98: > 1B
Range 02: > 1B
Chemical Name: Natural gas, petroleum, raw liq. mix

A5 **ENVENT CORPORATION** **FINDS** **1014677076**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 5 of 60 in cluster A

Actual: **37 ft.**

FINDS:
Registry ID: 110041522661

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES
Registry ID: 110071786813

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6 **ERNS** **98423681**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 6 of 60 in cluster A

Actual: **37 ft.**

Incident Commons:

NRC Report #:	423681
Description of Incident:	DIRT BERM CONTAINMENT WALL WAS BREACHED/BREACH DUE TO BAD WEATHER ANDRESULTED IN RELEASE
Type of Incident:	FIXED
Incident Cause:	NATURAL PHENOMENON
Incident Date Time:	1998-02-09 10:00:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported

(Continued) **98423681**

Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1998
NRC Report #:	423681
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported

(Continued) **98423681**

Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	423681
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported

(Continued) **98423681**

Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLANDS
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	BERM REPAIRED BY HAND IMMEDIATELY TO STOP FURTHER RELEASE
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CLEAR/SUNNY/65F SHEEN SIZE: 15SQFT/RAINBOW COLORWILL NOTIFY: OSPR, DIV OF OIL AND GAS, STATE LANDS COMM., USCG
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

(Continued) **98423681**

Calls:

Year:	1998
NRC Report #:	423681
Site ID:	98423681
Date Time Received:	1998-02-09 14:26:23
Date Time Complete:	1998-02-09 14:34:32
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

Year:	1998
NRC Report #:	423681
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	0.98999999999999999
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	0.98999999999999999
Unit of Measure Reach Water:	GALLON(S)

A7 **ERNS** **97406561**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 7 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	406561
Description of Incident:	3 INCH PRODUCTION LINE / CAUSE OF RELEASE IS UNKNOWN
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	1997-10-07 10:15:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported

(Continued) **97406561**

Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1997
NRC Report #:	406561
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported

(Continued) **97406561**

OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1997
NRC Report #:	406561
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N

(Continued) **97406561**

Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	UNKNOWN
Additional Medium Info:	SOIL / DRY WATER BED
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	PLANNING TO EXCAVATE THE LINE TO LOCATE THE SOURCE OF THE MATERIALWAITING FOR FISH & GAME TO APPROVE CLEAN-UP PLAN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	DRY WATER BED WAS IN THE BOLSA CHICA WETLANDS
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N

(Continued) **97406561**

Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1997
NRC Report #:	406561
Site ID:	97406561
Date Time Received:	1997-10-07 14:00:23
Date Time Complete:	1997-10-07 14:07:53
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

Year:	1997
NRC Report #:	406561
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	10
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	UNKNOWN AMOUNT

Year:	1997
NRC Report #:	406561
Chris Code:	NCC
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	90
Unit of Measure:	GALLON(S)
Name of Material:	PRODUCED WATER
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	UNKNOWN AMOUNT

A8 **AMINOIL BOLSA CHICA** **SEMS-ARCHIVE** **1015732721**
Target **20101 GOLDEN W & PAC COAST HWY** **CAD042137307**
Property **HUNTINGTON BEACH, CA 92649**

Site 8 of 60 in cluster A

Actual:
37 ft.

SEMS Archive:

Site ID:	0901336
EPA ID:	CAD042137307
Name:	AMINOIL BOLSA CHICA
Address:	20101 GOLDEN W & PAC COAST HWY

AMINOIL BOLSA CHICA (Continued) **1015732721**

Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 92649
Cong District: 34
FIPS Code: 06059
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: 09
Site ID: 0901336
EPA ID: CAD042137307
Site Name: AMINOIL BOLSA CHICA
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1984-11-01 06:00:00
Qual: L
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901336
EPA ID: CAD042137307
Site Name: AMINOIL BOLSA CHICA
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: Not reported
Finish Date: 1988-07-01 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901336
EPA ID: CAD042137307
Site Name: AMINOIL BOLSA CHICA
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1979-11-01 05:00:00
Finish Date: 1979-11-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0901336
EPA ID: CAD042137307
Site Name: AMINOIL BOLSA CHICA

AMINOIL BOLSA CHICA (Continued) **1015732721**

NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-07-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

A9 **ERNS 98424879**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 9 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	424879
Description of Incident:	SOURCE: DURING TRANSFER OF STORM WATER FROM ONE AREA TO ANOTHERAREA A SHEEN WAS SIGHTED.
Type of Incident:	FIXED
Incident Cause:	OTHER
Incident Date Time:	1998-02-17 21:48:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1998
NRC Report #:	424879
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported

(Continued) **98424879**

Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported

(Continued) **98424879**

Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	424879
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLANDS
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U

(Continued) **98424879**

Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CLEAN UP CREWS ARE ONSCENE PUTTING CONTAIMENT BOOMS IN PLACE/VACUUMTRUCKS WILL BE USED TO CLEAN UP THE SPILL.
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	SHEEN COLOR: UNKNOWN/SHEEN SIZE: 300 SQ FT/WEATHER: CLR/WINDS: CALMCALLER WILL NOTIFY ALL REQUIRED STATE AGENCIES.
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1998
NRC Report #:	424879
Site ID:	98424879
Date Time Received:	1998-02-18 01:41:34
Date Time Complete:	1998-02-18 01:50:02
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH

(Continued) **98424879**

Responsible State: CA
Responsible Zip: 92648
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
Year: 1998
NRC Report #: 424879
Chris Code: OIL
Case Number: Not reported
UN Number: Not reported
Amount of Material: 2
Unit of Measure: GALLON(S)
Name of Material: OIL: CRUDE
If Reached Water: YES
Amount in Water: 2
Unit of Measure Reach Water: GALLON(S)

A10 **SHELL OIL-HUNTINGTON BEACH PLT** **TSCA** **1005932176**
Target **20101 GOLDEN WEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 10 of 60 in cluster A

Actual:
37 ft.

TSCA:
Site Name: SHELL OIL-HUNTINGTON BEACH PLT
Site Address: 20101 GOLDEN WEST ST
Site City,State,Zip: HUNTINGTON BEACH, CA 92648
Site County: Not reported
Facility ID: Not reported

TSCA 1986-2002:
Manufacturer/Importer Status: Manufacture
CBIMFIM: No
Company Name: SHELL OIL COMPANY
TSCA Name: SHELL OIL-HUNTINGTON BEACH PLT
Facility Address: 20101 GOLDEN WEST ST
Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 64741486
Chemical Name: Natural gas, petroleum, raw liq. mix

1986-2002 Chemical:
Case Number: 64741-48-6
Preferred CA Index Name: Natural gas (petroleum), raw liq. mix
Submitter Name: Natural gas liquid; Natural gas liquids
Chemical Substance Definition: A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C2 th
Former Case Number: Not reported
Molecular Formula: Unspecified
UVCB Flag: UVCB
EPA Inventory Flag: Not reported

1986-2002 CUSAGG:
Case Number: 64741486

SHELL OIL-HUNTINGTON BEACH PLT (Continued) **1005932176**

Range 86:	> 1B
Range 90:	> 1B
Range 94:	> 1B
Range 98:	> 1B
Range 02:	> 1B
Chemical Name:	Natural gas, petroleum, raw liq. mix

A11 **SHELL WESTERN E&P INC** **LUST** **S127815458**
Target **20101 GOLDENWEST** **Cortese** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 11 of 60 in cluster A

Actual: **37 ft.**

LUST:

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site

Geo Track:

Global Id:	T0605900704
Latitude:	33.7334913
Longitude:	-118.0025061
Status:	Completed - Case Closed
Status Date:	03/13/1997
Case Worker:	GH
RB Case Number:	083000890T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	88UT110
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline, Stoddard solvent / Mineral Spriits / Distillates
EPA Region:	9
Coordinate Source:	Google Geocode
Quantity Released Gallons:	0
Begin Date:	05/20/1988
Leak Reported Date:	05/20/1988
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Close and Remove Tank
Stop Description:	Not reported
No Further Action Date:	03/13/1997
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	40-45%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim Number:	3172
Claim Status:	Ineligible
Site History:	Not reported

SHELL WESTERN E&P INC (Continued) **S127815458**

LUST:
Global Id: T0605900704
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

Global Id: T0605900704
Contact Type: Regional Board Caseworker
Contact Name: JESSICA LAW
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: jessica.law@waterboards.ca.gov
Phone Number: 9517824381

LUST:
Global Id: T0605900704
Action Type: Other
Date: 05/20/1988
Action: Leak Discovery

Global Id: T0605900704
Action Type: REMEDIATION
Date: 05/20/1988
Action: Excavation

Global Id: T0605900704
Action Type: ENFORCEMENT
Date: 05/23/2024
Action: Historic Files

Global Id: T0605900704
Action Type: ENFORCEMENT
Date: 03/13/1997
Action: Closure/No Further Action Letter

Global Id: T0605900704
Action Type: Other
Date: 05/20/1988
Action: Leak Reported

LUST:
Global Id: T0605900704
Status: Open - Case Begin Date
Status Date: 05/20/1988

Global Id: T0605900704
Status: Completed - Case Closed
Status Date: 03/13/1997

SHELL WESTERN E&P INC (Continued) **S127815458**

CORTESE:

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605900704
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

A12 **SHELL WESTERN E & P INC** **CA FID UST** **1000725968**
Target **20101 GOLDENWEST ST** **Orange Co. Ind Site** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 12 of 60 in cluster A

Actual:
37 ft.

CA FID UST:

Facility ID:	30006336
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7149693234
Mail To:	Not reported
Mailing Address:	WCPD / H S & E P O B
Mailing Address 2:	Not reported
Mailing City,St,Zip:	HUNTINGTON BEACH 92648
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

Orange Co. Ind Site:

Name:	SHELL WESTERN E & P INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Case ID:	91IC010
Record ID:	RO0000295

SHELL WESTERN E & P INC (Continued) **1000725968**

Current Status: CLOSED
Closure Type: Voluntary Cleanup Program Termination
Released Chemical: FUEL WASTE
Closed Date: 6/13/2005
File Location: Not reported

A13 **HUNTINGTON BEACH GAS PLIANT** **TSCA** **1005929334**
Target **20101 GOLDEN W ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 13 of 60 in cluster A

Actual: 37 ft.

TSCA:
Site Name: HUNTINGTON BEACH GAS PLIANT
Site Address: 20101 GOLDEN W ST
Site City,State,Zip: HUNTINGTON BEACH, CA 92648
Site County: Not reported
Facility ID: Not reported

TSCA 1986-2002:
Manufacturer/Importer Status: Manufacture
CBIMFIM: No
Company Name: SHELL OIL CO
TSCA Name: HUNTINGTON BEACH GAS PLIANT
Facility Address: 20101 GOLDEN W ST
Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 64741486
Chemical Name: Natural gas, (petroleum), raw liq. mix

1986-2002 Chemical:
Case Number: 64741-48-6
Preferred CA Index Name: Natural gas (petroleum), raw liq. mix
Submitter Name: Natural gas liquid; Natural gas liquids
Chemical Substance Definition: A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C2 th
Former Case Number: Not reported
Molecular Formula: Unspecified
UVCB Flag: UVCB
EPA Inventory Flag: Not reported

1986-2002 CUSAGG:
Case Number: 64741486
Range 86: > 1B
Range 90: > 1B
Range 94: > 1B
Range 98: > 1B
Range 02: > 1B
Chemical Name: Natural gas, petroleum, raw liq. mix

A14
Target
Property

SOCAL HOLDING LLC
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

FINDS **1024599945**
ECHO **N/A**

Site 14 of 60 in cluster A

Actual:
37 ft.

FINDS:
Registry ID: 110070387347

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The Integrated Compliance Information System (ICIS) provides a database that, when complete, will contain integrated enforcement and compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained in ICIS by EPA in the Regional offices and it at Headquarters. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). 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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1024599945
Registry ID: 110070387347

DFR URL:
Name: SOCAL HOLDING LLC
Address: 20101 Goldenwest St
City,State,Zip: HUNTINGTON BEACH, CA 92648

A15
Target Property
SOUTHERN CALIFORNIA EDISON RECOVERY SUBSTATION
20101 GOLDENWEST STNA ENTRANCE 1800' SW/O PALM AVE
HUNTINGTON BEACH, CA 92648

FINDS **1023354867**
N/A

Site 15 of 60 in cluster A

Actual:
37 ft.

FINDS:
Registry ID: 110066582102

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).

Registry ID: 110066515514

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A16
Target Property
20101 GOLDENWEST ST, IN THE BOLSA CHICA WETLANDS
HUNTINGTON BEACH, CA 92648

CHMIRS **S110418736**
N/A

Site 16 of 60 in cluster A

Actual:
37 ft.

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST ST, IN THE BOLSA CHICA WETLANDS
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	08-2945
OES notification:	04/21/2008
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 Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

(Continued) **S110418736**

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:	Oil Field
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Qt.(s)
Other:	Not reported
Date/Time:	1040
Year:	2008
Agency:	Aera Energy
Incident Date:	4/21/2008
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	produced 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
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP States: A 3 inch gathering line was corroded and released the material onto the ground. This was an old unused line and scheduled for removal.

A17 **CHMIRS** **S130384492**
Target Property **20101 GOLDENWEST ST**
HUNTINGTON BEACH, CA 92648 **N/A**

Site 17 of 60 in cluster A

Actual:
37 ft.

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	23-3000
OES notification:	05/04/2023
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:	None
Spill Site:	Road
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Bbl.(s)
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1340
Year:	2023
Agency:	SoCal Holding
Incident Date:	05/04/2023
Admin Agency:	Huntington Beach Fire Department

(Continued) **S130384492**

Amount:	Not reported
Contained:	Stopped,Contained
Site Type:	None
E Date:	Not reported
Substance:	Produced Water
Quantity Released:	5
Unknown:	Not reported
Substance #2:	Crude Oil 2
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:	Produced water line leak caused a release of 5 bbls of produced water and 2 gallons of crude oil onto the roadway. Spill has been stopped and contained. Clean up is been coordinated by reporting party

---

A18 **SHELL WESTERN E & P, INC.** **RGA LUST** **S114688949**
Target **20101 GOLDENWEST STREET** **N/A**
Property **HUNTINGTON BEACH, CA**

Site 18 of 60 in cluster A

Actual: **37 ft.**

RGA LUST:

Name:	SHELL WESTERN E & P, INC.		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1995	SHELL WESTERN E & P, INC.	20101 GOLDENWEST STREET
Name:	SHELL WESTERN E & P, INC.		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1994	SHELL WESTERN E & P, INC.	20101 GOLDENWEST STREET
Name:	SHELL WESTERN E & P, INC.		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1993	SHELL WESTERN E & P, INC.	20101 GOLDENWEST STREET
Name:	SHELL WESTERN E & P, INC.		
Address:	20101 GOLDENWEST STREET		
City:	HUNTINGTON BEACH		
State:	HUNTINGTON BEACH		
	1992	SHELL WESTERN E & P, INC.	20101 GOLDENWEST STREET

A19
Target Property
ENSIGN - RIG 550
20101 GOLDENWEST ST
HUNTINGTON BEACH, CA 92648

ECHO **1027597365**
N/A

Site 19 of 60 in cluster A

Actual:
37 ft.

ECHO:
Envid: 1027597365
Registry ID: 110071387016

DFR URL:
Name: ENSIGN - RIG 550
Address: 20101 Goldenwest St
City,State,Zip: HUNTINGTON BEACH, CA 92648

A20
Target Property
OXY USA, INC. HUNTINGTON BEACH PRODUCTION UNIT
20101 GOLDEN WEST STREET
HUNTINGTON BEACH, CA 92648

FINDS **1015878215**
ECHO **N/A**

Site 20 of 60 in cluster A

Actual:
37 ft.

FINDS:
Registry ID: 110071795869

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES
Registry ID: 110046317570

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The California Environmental Reporting System (CERS) is a statewide web-based user and information exchange system to support over 140,000 regulated businesses and over 130 local agencies in electronically collecting and reporting significant hazardous materials, hazardous waste and compliance and enforcement data as mandated by California law. Under oversight by Cal/EPA, certified local governing agencies (Unified Program Agencies - UPAs) consolidate, coordinate and provide consistent regulatory activities for six state and federal environmental programs.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). 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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

OXY USA, INC. HUNTINGTON BEACH PRODUCTION UNIT (Continued) **1015878215**

Envid: 1015878215
Registry ID: 110046317570

DFR URL:
Name: SO CAL HOLDING, LLC
Address: 20101 Golden West Street
City,State,Zip: HUNTINGTON BEACH, CA 92648

A21 **ERNS** **2001563438**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA 92648

Site 21 of 60 in cluster A

Actual: 37 ft.

Incident Commons:
NRC Report #: 563438
Description of Incident: THE CALLER REPORTS THAT WHILE REMOVING AN IDLE 4-INCH PIPELINE IT DRIPPED 2 OUNCES OF OIL INTO A BOLSA CHICA WETLANDS. THE PIPELINE HAD BEEN FLUSHED PRIOR TO MAINTENANCE WORK.
Type of Incident: PIPELINE
Incident Cause: OTHER
Incident Date Time: 2001-04-19 16:15:00
Incident DTG: OCCURRED
Incident Location: OIL AND GAS PRODUCTION
Loaction Address: 20101 GOLDENWEST STREET
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: HUNTINGTON BEACH
Location State: CA
Location County: ORANGE
Location Zip: 92648
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
Year: 2001
NRC Report #: 563438
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported

(Continued) **2001563438**

Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	GATHERING
DOT Regulated:	N
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported

(Continued) **2001563438**

CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2001
NRC Report #:	563438
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLANDS > SEASONAL PONDS
Body of Water:	BOLSA CHICA WETLANDS
Tributary of:	SEASONAL PONDS
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	THE SPILLED MATERIAL WAS IMMEDIATELY CLEANED UP WITH SORBENT PADS.

(Continued) **2001563438**

State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	PARTLY CLOUDY
Air Temperature:	65
Wind Speed:	Not reported
Wind Direction:	W
Water Supply Contaminated:	N
Sheen Size:	Not reported
Sheen Color:	RAINBOW
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	0 CALM
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER WILL CONTACT THE CA OES, CA STATE LANDS COMMISSION, AND ORANGE CO. FIRE AUTHORITY.
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	1
Sheen Size Length Units:	FEET
Sheen Size Width:	1
Sheen Size Width Units:	FEET
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2001
NRC Report #:	563438
Site ID:	2001563438
Date Time Received:	2001-04-19 20:00:45
Date Time Complete:	2001-04-19 20:11:46
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	TELEPHONE

(Continued) **2001563438**

Material Involved:

Year:	2001
NRC Report #:	563438
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	2
Unit of Measure:	OUNCE(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	2
Unit of Measure Reach Water:	OUNCE(S)

A22 **ERNS 98462364**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 22 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	462364
Description of Incident:	2 INCH GAS LINE / UNKNOWN....LINE DEVELOPED A LEAK
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	1998-10-25 00:00:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1998
NRC Report #:	462364
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported

(Continued) **98462364**

Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported

(Continued) **98462364**

Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	462364
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	DRAINAGE DITCH > SOIL
Body of Water:	Not reported
Tributary of:	Not reported

(Continued) **98462364**

Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	RELEASE WAS SECURED / CONTAMINATED SOIL WAS REMOVED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY:OES
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1998
NRC Report #:	462364
Site ID:	98462364
Date Time Received:	1998-11-02 18:58:41
Date Time Complete:	1998-11-02 19:01:47
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA

(Continued) **98462364**

Responsible Zip: 92648
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
Year: 1998
NRC Report #: 462364
Chris Code: NCC
Case Number: Not reported
UN Number: Not reported
Amount of Material: 1
Unit of Measure: QUART(S)
Name of Material: GASOLINE CONDENSATE
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: UNKNOWN AMOUNT

A23 **ERNS** **98462292**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 23 of 60 in cluster A

Actual: 37 ft.

Incident Commons:
NRC Report #: 462292
Description of Incident: KIM-RAY VALVE ON PIPING / MATERIAL SPILLED DUE TO A PIN HOLE LEAK INTHE VALVE
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 1998-11-02 03:30:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 20101 GOLDENWEST ST
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: HUNTINGTON BEACH
Location State: CA
Location County: ORANGE
Location Zip: 92648
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
Year: 1998

(Continued) **98462292**

NRC Report #:	462292
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported

(Continued) **98462292**

Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	462292
Fire Involved:	N
Fire Extinguished:	Not reported
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	Not reported
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	Not reported
Track Closed:	Not reported
Track Desc:	Not reported
Track Closure Time:	Not reported

(Continued) **98462292**

Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	DRY DRAINAGE DITCH
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Not reported
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	Not reported
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	Not reported
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	Not reported
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1998
NRC Report #:	462292
Site ID:	98462292
Date Time Received:	1998-11-02 13:35:59
Date Time Complete:	1998-11-02 13:42:01

(Continued) **98462292**

Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

Year:	1998
NRC Report #:	462292
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	2
Unit of Measure:	BARREL(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	UNKNOWN AMOUNT

Year:	1998
NRC Report #:	462292
Chris Code:	NCC
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	5
Unit of Measure:	BARREL(S)
Name of Material:	PRODUCED WATER
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	UNKNOWN AMOUNT

A24 **ERNS** **2020275450**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA

Site 24 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	1275450
Description of Incident:	CALLER REPORTED A RELEASE OF 1 OUNCE OF CRUDE OIL FROM A WELL INTO AN ADJACENT WET CELL CREATING A 10X10 FOOT SHEEN DUE TO EQUIPMENT FAILURE.
Type of Incident:	FIXED
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	4/15/2020 9:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	WELL 52 E
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE

(Continued) **2020275450**

Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	N

Incidents:

Year:	2020
NRC Report #:	1275450
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	WELLHEAD
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported

(Continued) **2020275450**

Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX
Year:	2020
NRC Report #:	1275450
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported

(Continued) **2020275450**

Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	WELLHEAD
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported

(Continued) **2020275450**

FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2020
NRC Report #:	1275450
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	UNKNOWN
Medium Desc:	WATER
Additional Medium Info:	WET CELL
Body of Water:	WET CELL
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	UNKNOWN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported

(Continued) **2020275450**

Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	10
Sheen Size Length Units:	FEET
Sheen Size Width:	10
Sheen Size Width Units:	FEET
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO
Year:	2020
NRC Report #:	1275450
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported

(Continued) **2020275450**

Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	UNKNOWN
Medium Desc:	WATER
Additional Medium Info:	WET CELL
Body of Water:	WET CELL
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	UNKNOWN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	10
Sheen Size Length Units:	FEET
Sheen Size Width:	10
Sheen Size Width Units:	FEET

(Continued) **2020275450**

Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: NO

Calls:
Year: 2020
NRC Report #: 1275450
Site ID: 20201275450
Date Time Received: 2020-04-15 12:47:00
Date Time Complete: 2020-04-15 12:58:00
Call Type: INC
Responsible Company: SOCAL HOLDING LLC
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: HUNTINGTON BEACH
Responsible State: CA
Responsible Zip: 92648
On Behalf: Not reported
Source: TELEPHONE

Year: 2020
NRC Report #: 1275450
Site ID: 20201275450
Date Time Received: 2020-04-15 12:47:00
Date Time Complete: 2020-04-15 12:58:00
Call Type: INC
Responsible Company: SOCAL HOLDING LLC
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: HUNTINGTON BEACH
Responsible State: CA
Responsible Zip: 92648
On Behalf: Not reported
Source: TELEPHONE

Material Involved:
Year: 2020
NRC Report #: 1275450
Chris Code: OIL
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 1
Unit of Measure: OUNCE(S)
Name of Material: OIL: CRUDE
If Reached Water: YES
Amount in Water: 1
Unit of Measure Reach Water: OUNCE(S)

Year: 2020
NRC Report #: 1275450
Chris Code: OIL
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 1
Unit of Measure: OUNCE(S)
Name of Material: OIL: CRUDE

(Continued) **2020275450**

If Reached Water: YES
Amount in Water: 1
Unit of Measure Reach Water: OUNCE(S)

NRC Report #: 1275450
Description of Incident: CALLER REPORTED A RELEASE OF 1 OUNCE OF CRUDE OIL FROM A WELL INTO AN ADJACENT WET CELL CREATING A 10X10 FOOT SHEEN DUE TO EQUIPMENT FAILURE.
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 4/15/2020 9:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 20101 GOLDENWEST ST
Location Street 1: WELL 52 E
Location Street 2: Not reported
Location Nearest City: HUNTINGTON BEACH
Location State: CA
Location County: ORANGE
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: N

Incidents:
Year: 2020
NRC Report #: 1275450
Aircraft Type: Not reported
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: WELLHEAD
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U

(Continued) **2020275450**

Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported

(Continued) **2020275450**

Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX
Year:	2020
NRC Report #:	1275450
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	WELLHEAD
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	U
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported

(Continued) **2020275450**

OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2020
NRC Report #:	1275450
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported

(Continued) **2020275450**

Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	UNKNOWN
Medium Desc:	WATER
Additional Medium Info:	WET CELL
Body of Water:	WET CELL
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	UNKNOWN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	10
Sheen Size Length Units:	FEET
Sheen Size Width:	10
Sheen Size Width Units:	FEET
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported

(Continued) **2020275450**

Release Rate Rate:	Not reported
Passengers Transferred:	NO
Year:	2020
NRC Report #:	1275450
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	UNKNOWN
Medium Desc:	WATER
Additional Medium Info:	WET CELL
Body of Water:	WET CELL
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	UNKNOWN
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported

(Continued) **2020275450**

Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	10
Sheen Size Length Units:	FEET
Sheen Size Width:	10
Sheen Size Width Units:	FEET
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO

Calls:

Year:	2020
NRC Report #:	1275450
Site ID:	20201275450
Date Time Received:	2020-04-15 12:47:00
Date Time Complete:	2020-04-15 12:58:00
Call Type:	INC
Responsible Company:	SOCAL HOLDING LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	TELEPHONE

Year:	2020
NRC Report #:	1275450
Site ID:	20201275450
Date Time Received:	2020-04-15 12:47:00
Date Time Complete:	2020-04-15 12:58:00
Call Type:	INC
Responsible Company:	SOCAL HOLDING LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	TELEPHONE

Material Involved:

(Continued) **2020275450**

Year:	2020
NRC Report #:	1275450
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	OUNCE(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	1
Unit of Measure Reach Water:	OUNCE(S)

Year:	2020
NRC Report #:	1275450
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	OUNCE(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	1
Unit of Measure Reach Water:	OUNCE(S)

A25 **ERNS** **8722125**
Target Property **WELL #91-33, 20101 GOLDENWEST** **N/A**
HUNTINGTON BEACH, CA

Site 25 of 60 in cluster A

Actual: 37 ft.

ERNS 1987-1989:

NRC Report #:	00022125
Envid:	8722125
Spill Date:	19871008
Spill Time:	1630
EPA Region:	09
EPA Region 2:	Not reported
County:	ORANGE
Spill Address 1:	Not reported
Spill City:	HUNTINGTON BEACH
Spill State:	CA
Spill Zip:	Not reported
Number of Fatalities:	0
Number of Injured:	0
Number of Evacuees:	0
Damage Dollar Amount:	0.00
Initial Report:	True
Updated Report:	True
Damage:	False
EPA Notified:	True
Air:	False
Land:	True
Water:	False
Groundwater:	False
Facility:	False
Other:	False
Notes:	Not reported

(Continued) **8722125**

Transport Related:	False
Equipment Failure:	True
Operator Error:	False
Natural Phenomenon:	False
Dumping:	False
Other:	False
Unknown:	False
Cause Code:	Not reported
Source:	Not reported
Mode:	P
SRC:	E
Report Number:	Not reported
C.G. Unit:	Not reported
Type of Agency:	Not reported
Responding Agency:	Not reported
EPA Report Number:	87-4159
DC:	19950428
Discharger ID:	22125
Discharger DUNS:	Not reported
Discharger:	SHELL OIL (J. MELO)
Discharger Affiliation:	Not reported
Discharger Address:	20101 GOLDENWEST
Discharger County:	ORANGE
Discharger City:	HUNTINGTON BEACH
Discharger State:	CA
Discharger Zip:	92648
CID1:	0
Material Spilled 1:	WATER
CC1:	Not reported
Spill Total Quantity 1:	1.00
Units 1:	GAL
In Water 1:	0.00
Units in Water 1:	Not reported
Quantity Lbs 1:	0.00
CAS 1:	Not reported
DOT Number 1:	Not reported
CID2:	Not reported
Material Spilled 2:	Not reported
CC2:	Not reported
Spill Total Quantity 2:	Not reported
Units 2:	Not reported
In Water 2:	Not reported
Units in Water 2:	Not reported
Quantity Lbs 2:	Not reported
CAS 2:	Not reported
DOT Number 2:	Not reported
CID3:	Not reported
Material Spilled 3:	Not reported
CC3:	Not reported
Spill Total Quantity 3:	Not reported
Units 3:	Not reported
In Water 3:	Not reported
Units in Water 3:	Not reported
Quantity Lbs 3:	Not reported
CAS 3:	Not reported
DOT Number 3:	Not reported
Description:	FLOLINE LEAK/FLO TO LAND. FLOLINE LEAK/FLO TO LAND

(Continued) **8722125**

Site Location: WELL #91-33, 20101 GOLDENWEST
Action: RP=CU
Comments: Not reported

A26 **ERNS** **8722157**
Target Property **WELL #426-135, 20101 GOLDENWEST** **N/A**
HUNTINGTON BEACH, CA

Site 26 of 60 in cluster A

Actual: 37 ft.

ERNS 1987-1989:

NRC Report #:	00022157
Envid:	8722157
Spill Date:	19871010
Spill Time:	0930
EPA Region:	09
EPA Region 2:	Not reported
County:	ORANGE
Spill Address 1:	Not reported
Spill City:	HUNTINGTON BEACH
Spill State:	CA
Spill Zip:	Not reported
Number of Fatalities:	0
Number of Injured:	0
Number of Evacuees:	0
Damage Dollar Amount:	0.00
Initial Report:	True
Updated Report:	True
Damage:	False
EPA Notified:	True
Air:	False
Land:	True
Water:	False
Groundwater:	False
Facility:	False
Other:	False
Notes:	Not reported
Transport Related:	False
Equipment Failure:	True
Operator Error:	False
Natural Phenomenon:	False
Dumping:	False
Other:	False
Unknown:	False
Cause Code:	Not reported
Source:	Not reported
Mode:	P
SRC:	E
Report Number:	Not reported
C.G. Unit:	Not reported
Type of Agency:	Not reported
Responding Agency:	Not reported
EPA Report Number:	87-4141
DC:	19950428
Discharger ID:	22157
Discharger DUNS:	Not reported
Discharger:	SHELL WESTERN (J. MELO)
Discharger Affiliation:	Not reported

(Continued) **8722157**

Discharger Address:	20101 GOLDENWEST
Discharger County:	ORANGE
Discharger City:	HUNTINGTON BEACH
Discharger State:	CA
Discharger Zip:	92648
CID1:	0
Material Spilled 1:	WATER
CC1:	Not reported
Spill Total Quantity 1:	25.00
Units 1:	GAL
In Water 1:	0.00
Units in Water 1:	Not reported
Quantity Lbs 1:	0.00
CAS 1:	Not reported
DOT Number 1:	Not reported
CID2:	Not reported
Material Spilled 2:	Not reported
CC2:	Not reported
Spill Total Quantity 2:	Not reported
Units 2:	Not reported
In Water 2:	Not reported
Units in Water 2:	Not reported
Quantity Lbs 2:	Not reported
CAS 2:	Not reported
DOT Number 2:	Not reported
CID3:	Not reported
Material Spilled 3:	Not reported
CC3:	Not reported
Spill Total Quantity 3:	Not reported
Units 3:	Not reported
In Water 3:	Not reported
Units in Water 3:	Not reported
Quantity Lbs 3:	Not reported
CAS 3:	Not reported
DOT Number 3:	Not reported
Description:	3" PIPELINE LEAK/FLO TO LAND. 3" PIPELINE LEAK/FLO TO LAND.
Site Location:	WELL #426-135, 20101 GOLDENWEST
Action:	RP=CU
Comments:	Not reported

A27 **ERNS 2000542216**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA 92648

Site 27 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	542216
Description of Incident:	3 INCH FLOW LINE GASKETS ARE LEAKING DUE TO UNKNOWN CAUSES
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	2000-09-15 06:30:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST STREET
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH

(Continued) **2000542216**

Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	542216
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	FLOW
DOT Regulated:	N
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U

(Continued) **2000542216**

Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	542216
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N

(Continued) **2000542216**

Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLANDS
Body of Water:	BOLSA CHICA WETLANDS
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SHUTDOWN SYSTEM,INVESTIGATION UNDERWAY, SOURCE STOPPED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	FOGGY
Air Temperature:	78
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported

(Continued) **2000542216**

Additional Info:	CALLER WILL NOTIFY: CA OES / CA FISH AND GAME / MSO LA/LB / DIV OF OIL AND GAS / CA STATE LAND COMMISSION
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	542216
Site ID:	2000542216
Date Time Received:	2000-09-15 11:09:11
Date Time Complete:	2000-09-15 11:16:03
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	542216
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	10
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	10
Unit of Measure Reach Water:	GALLON(S)

Year:	2000
NRC Report #:	542216
Chris Code:	NCC
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	80
Unit of Measure:	GALLON(S)
Name of Material:	PRODUCE WATER
If Reached Water:	YES
Amount in Water:	80
Unit of Measure Reach Water:	GALLON(S)

A28 **ERNS** **2000545434**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA

Site 28 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	545434
Description of Incident:	THE MATERIAL WAS RELEASED FROM A 2 INCH OIL WELL FLOW LINE WHILE DEWAXING THE FLOW LINE DUE TO UNKNOWN CAUSES.
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	2000-10-17 10:00:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST STREET
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	545434
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	FLOW

(Continued) **2000545434**

DOT Regulated:	N
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported

(Continued) **2000545434**

Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	545434
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	Not reported
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SHUT DOWN SYSTEM
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	UNKNOWN
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported

(Continued) **2000545434**

Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER WILL NOTIFY CA OES, USCG, CA DEPT. OF FISH AND GAME, STATE GAS.
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	545434
Site ID:	2000545434
Date Time Received:	2000-10-17 14:26:41
Date Time Complete:	2000-10-17 14:33:01
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	545434
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	QUART(S)
Name of Material:	OIL: CRUDE

(Continued) **2000545434**

If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

A29 **ERNS** **97414872**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 29 of 60 in cluster A

Actual: 37 ft.

Incident Commons:
NRC Report #: 414872
Description of Incident: RESIDUAL OIL FROM AN EARLIER SPILL WASHED ONTO THE BANK OF A CHICA WETCELL / ORIGINAL SOURCE WAS A PIECE OF CHEMICAL TUBING
Type of Incident: FIXED
Incident Cause: OPERATOR ERROR
Incident Date Time: 1997-12-06 10:00:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 20101 GOLDENWEST ST
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: HUNTINGTON BEACH
Location State: CA
Location County: ORANGE
Location Zip: 92648
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
Year: 1997
NRC Report #: 414872
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported
Aircraft Fuel on Board: Not reported
Aircraft Fuel on Board Units: Not reported
Aircraft Spot Number: Not reported
Aircraft Hanger: Not reported
Aircraft Runway Number: Not reported
Road Mile Marker: Not reported
Building ID: Not reported

(Continued) **97414872**

Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX

(Continued) **97414872**

Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1997
NRC Report #:	414872
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NO MATERIAL ACTUALLY ENTERED THE WATER BUT IT DID STAIN THE ADJOININGSHORELINE/ SOIL WAS EXCAVATED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported

(Continued) **97414872**

Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	SPILL AREA WAS 10FT X 10FT
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1997
NRC Report #:	414872
Site ID:	97414872
Date Time Received:	1997-12-08 13:51:51
Date Time Complete:	1997-12-08 14:00:13
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

Year:	1997

(Continued) **97414872**

NRC Report #:	414872
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	2
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	NONE

A30 **CALRESOURCES LLC** **UST** **U003432711**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 30 of 60 in cluster A

Actual:
37 ft.

UST:

Name:	CALRESOURCES LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	20
Permitting Agency:	ORANGE COUNTY
CERSID:	Not reported
Latitude:	33.6707792
Longitude:	-118.0151881
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported

CALRESOURCES LLC (Continued) **U003432711**

Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

A31 **SOCAL HOLDING LLC** **PFAS ECHO** **1027420544**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 31 of 60 in cluster A

Actual:
37 ft.

PFAS ECHO:

Facility ID:	110070387347
Name:	Socal Holding Llc
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Latitude:	33.67056
Longitude:	-118.01887
Count:	1
County:	ORANGE COUNTY
Status:	Inactive
Region:	09
Industry:	Oil and Gas

ECHO Facility Report:

Facility Percent Minority:	28.175
Facility Derived Tribes:	-
Facility Population:	6146.96
EPA Programs:	CAA; CWA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06059
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18070201
Facility Derived WBD:	180702010001
Facility Derived CD113:	48
Facility Derived CB2010:	060590993082009
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	Y

SOCAL HOLDING LLC (Continued) **1027420544**

SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	09000000CA059
CAA Permit Types:	No Classification In ICIS
CAA NAICS:	211120
CAA SICS:	-
NPDES IDS:	CAZ503516
CWA Permit Types:	Non-M
CWA NAICS:	-
CWA SICS:	1311
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

A32 **ERNS 99500841**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA 92648

Site 32 of 60 in cluster A

Actual: **37 ft.**

Incident Commons:

NRC Report #:	500841
Description of Incident:	UNDERGROUND PIPELINE / SIZE AND TYPE OF LINE:UNKNOWN / CAUSE OF RELEASEUNKNOWN / LINE IS NOT REGULATED BY THE DOT AND DOES NOT LEAVE FACILITY
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	1999-10-01 02:45:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST STREET
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported

(Continued) **99500841**

Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	33
Location Township:	5 SOUTH
Location range:	11 WEST
Potential Range:	Not reported

Incidents:

Year:	1999
NRC Report #:	500841
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported

(Continued) **99500841**

State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1999
NRC Report #:	500841
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported

(Continued) **99500841**

Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SHUT DOWN SUSPECTING WELLS THAT FEED THE LINE / RELEASE HAS BEENSECURED / AMOUNT OF OIL REPORTED IS AN ESTIMATION
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	OIL HAS AFFECTED SOME PICKLEWEED THAT IS A HABITAT FOR A PROTECTEDANIMAL SPECIES / CALLER WILL NOTIFY:OES AND FISH AND GAME
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported

(Continued) **99500841**

Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:
Year: 1999
NRC Report #: 500841
Site ID: 99500841
Date Time Received: 1999-10-01 06:33:18
Date Time Complete: 1999-10-01 06:40:53
Call Type: INC
Responsible Company: AERA ENERGY LLC
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: HUNTINGTON BEACH
Responsible State: CA
Responsible Zip: 92648
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
Year: 1999
NRC Report #: 500841
Chris Code: OIL
Case Number: Not reported
UN Number: Not reported
Amount of Material: 5
Unit of Measure: BARREL(S)
Name of Material: OIL: CRUDE
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: NONE

A33 **SHELL WESTERN E & P INC** **HIST FTTS** **1008189242**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 33 of 60 in cluster A

Actual:
37 ft.

HIST FTTS INSP:
Inspection Number: 19890315CA001 3
Region: 09
Inspection Date: Not reported
Inspector: BERMAN
Violation occurred: Yes
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

A34 **ERNS** **98438267**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 34 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	438267
Description of Incident:	OIL WELL CELLAR / UNKNOWN BUT CELLAR OVERFLOWED
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	1998-05-23 05:30:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1998
NRC Report #:	438267
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U

(Continued) **98438267**

Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported

(Continued) **98438267**

Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	438267
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	SOIL > BOLSACHICA WETLANDS
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	OIL LEAKED THROUGH GOPHER HOLES INTO DRY WETLANDS AREA / CA FISH ANDGAME IS ENROUTE TO INSPECT / VACUUM TRUCKS,SHOVELS USED ON REMAINDER
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported

(Continued) **98438267**

Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	MAJORITY OF MATERIAL IS CONTAINED WITHIN BERMED AREAWILL NOTIFY: MSO LONG BEACH, CA FISH AND GAME
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1998
NRC Report #:	438267
Site ID:	98438267
Date Time Received:	1998-05-23 12:13:26
Date Time Complete:	1998-05-23 12:19:16
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

Year:	1998
NRC Report #:	438267
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	BARREL(S)

(Continued) **98438267**

Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	4
Unit of Measure Reach Water:	GALLON(S)

A35 **ERNS** **98419366**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 35 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	419366
Description of Incident:	U/G 3 INCH FLOW LINE/UNKNOWN (SUSPECTED CORROSION OF FLOW LINE)
Type of Incident:	PIPELINE
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	1998-01-12 08:15:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	BOLSA CHICA WETLANDS
Location Street 2:	NORTH BOLSA LEASE AREA
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	1998
NRC Report #:	419366
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported

(Continued) **98419366**

Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX

(Continued) **98419366**

Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1998
NRC Report #:	419366
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLAND (STANDING STORMWATER)
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SORBENT PADS WERE USED TO SOAK UP OIL AND WATER/FLOW WAS SHUT DOWNAND WILL BE CLAMPED THEN REPLACED PRIOR TO RESUMING OPERATION
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported

(Continued) **98419366**

Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	SHEEN SIZE:10 SQFT/RAINBOW WX: OVERCAST/60F/LIGHT WINDWILL NOTIFY: CA OSPR, COAST GUARD, CA DIV OF OIL & GAS,STATE LANDS COM
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	1998
NRC Report #:	419366
Site ID:	98419366
Date Time Received:	1998-01-12 12:19:22
Date Time Complete:	1998-01-12 12:32:06
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

(Continued) **98419366**

Year:	1998
NRC Report #:	419366
Chris Code:	NCC
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	GALLON(S)
Name of Material:	PRODUCED WATER
If Reached Water:	YES
Amount in Water:	1
Unit of Measure Reach Water:	GALLON(S)

Year:	1998
NRC Report #:	419366
Chris Code:	OIL
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	PINT(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	1
Unit of Measure Reach Water:	PINT(S)

A36 **OXY USA INC** **SWF/LF** **U001577333**
Target **20101 GOLDENWEST ST** **CPS-SLIC** **N/A**
Property **HUNTINGTON BEACH, CA 92648** **HIST UST**
CHMIRS
Site 36 of 60 in cluster A **EMI**
HWTS
Actual: **HAZNET**
37 ft. **CIWQS**
CERS

SWF/LF (SWIS):

Name:	SHELL PROCESSING FACILITY
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 99999
Region:	STATE
Facility ID:	30-AB-0012
SWIS Number:	30-AB-0012
Point of Contact:	Casey Yearout
Is Archived:	Yes
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	D
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Huntington Beach
Reporting Agency Legal Name:	County of Orange
Reporting Agency Department:	Health Care Agency, Environmental Health Division
Enforcing Agency Legal Name:	County of Orange

OXY USA INC (Continued) **U001577333**

Enforcing Agency Department: Health Care Agency, Environmental Health Division
Regulation Status: Exempt

Owner:
SWIS Number: 30-AB-0012
Owner: Signal Landmark Properties
Owner Address: 4343 Von Karman Ave
Owner City: Newport Beach
Owner State: CA
Owner Zip: 92660
Site Name: Shell Processing Facility
Site Operational Status: Closed
Site Type: Disposal Only
Site Regulatory Status: Exempt
Latitude: 33.66667
Longitude: -117.98333
Is Archived: Yes
Started On: Not reported
Contact Name: Jeffrey Nolm
Contact Title: Vice President
Contact Email: Not reported
Contact Phone: (714) 261-0360

Waste:
SWIS Number: 30-AB-0012
Site Name: Shell Processing Facility
Activity: Solid Waste Disposal Site
Waste Type: Sludge (BioSolids)
Site Is Archived: Yes
Site Operational Status: Closed
Site Regulatory Status: Exempt
Site Type: Disposal Only
Point of Contact: Casey Yearout
Activity Is Archived: Yes
Activity Operational Status: Closed
Activity Regulatory Status: Exempt
Activity Category: Disposal
Activity Classification: Solid Waste Disposal Site

CPS-SLIC:
Name: SHELL WESTERN E & P INC., SWPI HUNTINGTON BCH GAS
Address: 20101 GOLDENWEST STREET
City,State,Zip: HUNTINGTON BEACH, CA
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/12/2010
Global Id: SL208153870
Lead Agency: SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number: Not reported
Latitude: 33.6707631885782
Longitude: -118.018382223728
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SL208153870
File Location: Regional Board

OXY USA INC (Continued) **U001577333**

Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Google Map Move
Quantity Released Gallons:	Not reported
Begin Date:	05/18/1995
Leak Reported Date:	01/02/1965
How Discovered:	* RPR
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	05/12/2010
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	1-5% (lowest scores)
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	The gas plant was in operation from approx. 1932 to 1995. In 1990, liquid phase petroleum hydrocarbons (LPHs) were observed to be seeping from the base of hillside within the Site. Series of subsurface investigations were performed to identify the source and charcterize the extent of LPHs. Follow-up shallow soil excavation and treatment of the soil on-site and vapor extraction of deeper soil took place for approximately 10 years. Extensive groundwater monitoring of the Site provided information to keep the vapor extraction and treatment system active. Final groundwater sampling event was conducted in August 2006 from 44 on-site and off-site monitoring wells. Soil confirmation sampling of three borings was conducte on August 9, 2006.

Click here to access the California GeoTracker records for this facility:

Name:	SHELL WESTERN E & P INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/13/2005
Global Id:	T10000018105
Lead Agency:	ORANGE COUNTY LOP
Lead Agency Case Number:	91IC010
Latitude:	33.673981
Longitude:	-118.0233661
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported

OXY USA INC (Continued) **U001577333**

EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	06/13/2005
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	06/13/2005
CA Water Watershed Name:	Not reported
Dwr Groundwater Subbasin Name:	Not reported
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	6-10%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Please refer to recent Site Documents or Monitoring Reports for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

HIST UST:

Name:	HUNTINGTON BEACH LEASE
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
File Number:	0002e4cd

URL:

Region:	STATE
Facility ID:	00000057221
Facility Type:	Other
Other Type:	OIL PRODUCTION FACIL
Contact Name:	D. E. VANDENBERG
Telephone:	7145366521
Owner Name:	AMINOIL INC.
Owner Address:	20101 GOLDENWEST STREET
Owner City,St,Zip:	HUNTINGTON BEACH, CA 92648
Total Tanks:	0006
Tank Num:	001
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor
Tank Num:	002

OXY USA INC (Continued) **U001577333**

Container Num:	#2
Year Installed:	1972
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	#3
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	WASTE
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor

Tank Num:	004
Container Num:	#4
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	#5
Year Installed:	1974
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	1975
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4"
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	6-4566
OES notification:	08/01/2006
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

OXY USA INC (Continued) **U001577333**

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:	2006
Agency:	AERA Energy
Incident Date:	8/1/2006 12:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Pipe Line
E Date:	Not reported
Substance:	Crude oil
Gallons:	0.000000
Quarts:	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

OXY USA INC (Continued) **U001577333**

Fatals:	Not reported
Comments:	Not reported
Description:	Per caller, residue in a pipe released onto soil in a wetland area.
Name:	Not reported
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	9-0817
OES notification:	02/21/1999
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 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:	1999
Agency:	AERA Energy
Incident Date:	2/21/199912:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
BBLS:	5

OXY USA INC (Continued) **U001577333**

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:	Released from 4" piping on separator while removing solids screen, material contained on facility strip
Name:	Not reported
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	1-4016
OES notification:	07/12/2001
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:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported

OXY USA INC (Continued) **U001577333**

What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Aera Energy
Incident Date:	7/12/200112:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude oil
BBLS:	5
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:	Leak from 4 inch pipeline. This is not in wetlands area.

EMI:

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	1996
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	938
Reactive Organic Gases Tons/Yr:	592
Carbon Monoxide Emissions Tons/Yr:	24
NOX - Oxides of Nitrogen Tons/Yr:	32
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST

OXY USA INC (Continued) **U001577333**

City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	1997
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	737
Reactive Organic Gases Tons/Yr:	372
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	1998
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	500
Reactive Organic Gases Tons/Yr:	249
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	1999
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	737
Reactive Organic Gases Tons/Yr:	372
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

OXY USA INC (Continued) **U001577333**

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2000
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	737
Reactive Organic Gases Tons/Yr:	372
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2001
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	83
Reactive Organic Gases Tons/Yr:	37
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	11
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2002
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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
Reactive Organic Gases Tons/Yr:	21
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0

OXY USA INC (Continued) **U001577333**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: AERA ENERGY LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2003
County Code: 30
Air Basin: SC
Facility ID: 104017
Air District Name: SC
SIC Code: 1311
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
Reactive Organic Gases Tons/Yr: 21
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: AERA ENERGY LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2004
County Code: 30
Air Basin: SC
Facility ID: 104017
Air District Name: SC
SIC Code: 1311
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: 38.120842
Reactive Organic Gases Tons/Yr: 21.31
Carbon Monoxide Emissions Tons/Yr: 0.4587
NOX - Oxides of Nitrogen Tons/Yr: 1.2713
SOX - Oxides of Sulphur Tons/Yr: 0.012567
Particulate Matter Tons/Yr: 0.09017
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.09

Name: AERA ENERGY LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2005
County Code: 30
Air Basin: SC
Facility ID: 104017
Air District Name: SC
SIC Code: 1311
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: 12.60232
Reactive Organic Gases Tons/Yr: 7.188090466

OXY USA INC (Continued) **U001577333**

Carbon Monoxide Emissions Tons/Yr:	1.04484
NOX - Oxides of Nitrogen Tons/Yr:	2.86633
SOX - Oxides of Sulphur Tons/Yr:	.017687
Particulate Matter Tons/Yr:	.17074536
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.170076026148

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8744
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:	.0036122817579771222
Reactive Organic Gases Tons/Yr:	.003
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	28.78310978959381023
Reactive Organic Gases Tons/Yr:	15.993
Carbon Monoxide Emissions Tons/Yr:	3.892
NOX - Oxides of Nitrogen Tons/Yr:	13.275
SOX - Oxides of Sulphur Tons/Yr:	.07
Particulate Matter Tons/Yr:	.787
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.787

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8744
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

OXY USA INC (Continued) **U001577333**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.0036122817579771222
Reactive Organic Gases Tons/Yr:	.003
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1311
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:	28.78173282387720633
Reactive Organic Gases Tons/Yr:	15.993
Carbon Monoxide Emissions Tons/Yr:	3.892
NOX - Oxides of Nitrogen Tons/Yr:	13.275
SOX - Oxides of Sulphur Tons/Yr:	.07
Particulate Matter Tons/Yr:	.787
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.787

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2008
County Code:	30
Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8999
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:	.0035335340156532209
Reactive Organic Gases Tons/Yr:	.0029346
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2008
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC

OXY USA INC (Continued) **U001577333**

SIC Code:	1381
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:	34.99089435426801066
Reactive Organic Gases Tons/Yr:	20.33302981219747862
Carbon Monoxide Emissions Tons/Yr:	2.87
NOX - Oxides of Nitrogen Tons/Yr:	6.54
SOX - Oxides of Sulphur Tons/Yr:	.0572675
Particulate Matter Tons/Yr:	.5664053
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.54920112154

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2009
County Code:	30
Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8999
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:	3.5279951836243201E-3
Reactive Organic Gases Tons/Yr:	2.9299999999999999E-3
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2009
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1381
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:	24.827894181750398
Reactive Organic Gases Tons/Yr:	13.8068188
Carbon Monoxide Emissions Tons/Yr:	2.71
NOX - Oxides of Nitrogen Tons/Yr:	5.2999999999999998
SOX - Oxides of Sulphur Tons/Yr:	3.6271999999999999E-2
Particulate Matter Tons/Yr:	0.470358675
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.4691561822775

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2010
County Code:	30

OXY USA INC (Continued) **U001577333**

Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8999
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:	3.6845273931366599E-3
Reactive Organic Gases Tons/Yr:	3.0599999999999998E-3
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2010
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1381
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:	22.314395024627299
Reactive Organic Gases Tons/Yr:	13.09338
Carbon Monoxide Emissions Tons/Yr:	5.1797899999999997
NOX - Oxides of Nitrogen Tons/Yr:	9.2051599999999993
SOX - Oxides of Sulphur Tons/Yr:	7.2400000000000006E-2
Particulate Matter Tons/Yr:	0.85038040800000003
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.84979507963440004

Name:	OXY USA INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2011
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	1311
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:	3.5821957654
Reactive Organic Gases Tons/Yr:	2.00092
Carbon Monoxide Emissions Tons/Yr:	0.57627
NOX - Oxides of Nitrogen Tons/Yr:	1.20564
SOX - Oxides of Sulphur Tons/Yr:	0.08231
Particulate Matter Tons/Yr:	0.11399
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.11393384

Name:	ENVENT CORPORATION
Address:	20101 GOLDENWEST ST

OXY USA INC (Continued) **U001577333**

City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2011
County Code:	30
Air Basin:	SC
Facility ID:	137729
Air District Name:	SC
SIC Code:	8999
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:	0.0013967489464
Reactive Organic Gases Tons/Yr:	0.00116
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 Smllr Tons/Yr:	0

Name:	AERA ENERGY LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2011
County Code:	30
Air Basin:	SC
Facility ID:	104017
Air District Name:	SC
SIC Code:	1381
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:	16.700351152
Reactive Organic Gases Tons/Yr:	9.74199
Carbon Monoxide Emissions Tons/Yr:	3.24768
NOX - Oxides of Nitrogen Tons/Yr:	6.27936
SOX - Oxides of Sulphur Tons/Yr:	0.0509
Particulate Matter Tons/Yr:	0.58938
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.58876164

Name:	OXY USA INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2012
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	9999
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:	15.149612885
Reactive Organic Gases Tons/Yr:	8.90467209
Carbon Monoxide Emissions Tons/Yr:	2.01278
NOX - Oxides of Nitrogen Tons/Yr:	4.1959
SOX - Oxides of Sulphur Tons/Yr:	0.03087
Particulate Matter Tons/Yr:	0.42855
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.414388828

OXY USA INC (Continued) **U001577333**

Name:	OXY USA INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2013
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	1311
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:	16.080505058
Reactive Organic Gases Tons/Yr:	9.38305
Carbon Monoxide Emissions Tons/Yr:	2.60068
NOX - Oxides of Nitrogen Tons/Yr:	6.35937
SOX - Oxides of Sulphur Tons/Yr:	0.03794
Particulate Matter Tons/Yr:	0.49008
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.4870156

Name:	OXY USA INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2014
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	1311
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:	28.721725293
Reactive Organic Gases Tons/Yr:	14.52736
Carbon Monoxide Emissions Tons/Yr:	6.54448
NOX - Oxides of Nitrogen Tons/Yr:	12.15388
SOX - Oxides of Sulphur Tons/Yr:	0.105565
Particulate Matter Tons/Yr:	1.39239
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.38573914

Name:	SO CAL HOLDING, LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2015
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	1311
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:	31.326690825
Reactive Organic Gases Tons/Yr:	15.917855533
Carbon Monoxide Emissions Tons/Yr:	5.08628645
NOX - Oxides of Nitrogen Tons/Yr:	9.549669107
SOX - Oxides of Sulphur Tons/Yr:	0.085794197

OXY USA INC (Continued) **U001577333**

Particulate Matter Tons/Yr: 1.10604809
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1.1005246596

Name: SO CAL HOLDING, LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2016
County Code: 30
Air Basin: SC
Facility ID: 169754
Air District Name: SC
SIC Code: 1311
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: 23.620808006
Reactive Organic Gases Tons/Yr: 11.617272
Carbon Monoxide Emissions Tons/Yr: 5.46847
NOX - Oxides of Nitrogen Tons/Yr: 9.72754
SOX - Oxides of Sulphur Tons/Yr: 0.07685117
Particulate Matter Tons/Yr: 1.156795
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1.151739008

Name: SO CAL HOLDING, LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2017
County Code: 30
Air Basin: SC
Facility ID: 169754
Air District Name: SC
SIC Code: 1311
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: 23.575813686
Reactive Organic Gases Tons/Yr: 11.696147
Carbon Monoxide Emissions Tons/Yr: 5.143855
NOX - Oxides of Nitrogen Tons/Yr: 7.26379
SOX - Oxides of Sulphur Tons/Yr: 0.06701434
Particulate Matter Tons/Yr: 1.039216
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1.034810176

Name: SO CAL HOLDING, LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2018
County Code: 30
Air Basin: SC
Facility ID: 169754
Air District Name: SC
SIC Code: 1311
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: 18.320700999
Reactive Organic Gases Tons/Yr: 9.189710203

OXY USA INC (Continued) **U001577333**

Carbon Monoxide Emissions Tons/Yr:	4.306783175
NOX - Oxides of Nitrogen Tons/Yr:	5.14014135
SOX - Oxides of Sulphur Tons/Yr:	0.090540602
Particulate Matter Tons/Yr:	1.131542295
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.1294162787

Name:	SO CAL HOLDING, LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2019
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	6719
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:	14.990250052
Reactive Organic Gases Tons/Yr:	7.335586564
Carbon Monoxide Emissions Tons/Yr:	3.66698032
NOX - Oxides of Nitrogen Tons/Yr:	3.9443877
SOX - Oxides of Sulphur Tons/Yr:	0.0504507387
Particulate Matter Tons/Yr:	0.61356799
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.61125054646

Name:	SO CAL HOLDING, LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2020
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	6719
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:	13.529329713
Reactive Organic Gases Tons/Yr:	6.545093
Carbon Monoxide Emissions Tons/Yr:	2.64816
NOX - Oxides of Nitrogen Tons/Yr:	3.66749
SOX - Oxides of Sulphur Tons/Yr:	0.03613685
Particulate Matter Tons/Yr:	0.513485
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.51116861

Name:	SO CAL HOLDING, LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Year:	2021
County Code:	30
Air Basin:	SC
Facility ID:	169754
Air District Name:	SC
SIC Code:	6719
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

OXY USA INC (Continued) **U001577333**

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 16.673203589
Reactive Organic Gases Tons/Yr: 7.498434543
Carbon Monoxide Emissions Tons/Yr: 2.297516437
NOX - Oxides of Nitrogen Tons/Yr: 3.951461484
SOX - Oxides of Sulphur Tons/Yr: 0.045838231
Particulate Matter Tons/Yr: 0.577279081
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.57498312276

Name: SO CAL HOLDING, LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2022
County Code: 30
Air Basin: SC
Facility ID: 169754
Air District Name: SC
SIC Code: 6719
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: 23.3074723653811649723554
Reactive Organic Gases Tons/Yr: 13.048714
Carbon Monoxide Emissions Tons/Yr: 2.07292
NOX - Oxides of Nitrogen Tons/Yr: 3.21357
SOX - Oxides of Sulphur Tons/Yr: 0.02194552
Particulate Matter Tons/Yr: 0.31006
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.30891964

Name: SO CAL HOLDING, LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Year: 2023
County Code: 30
Air Basin: SC
Facility ID: 169754
Air District Name: SC
SIC Code: 6719
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: 12.053972941
Reactive Organic Gases Tons/Yr: 5.604646411
Carbon Monoxide Emissions Tons/Yr: 3.716400469
NOX - Oxides of Nitrogen Tons/Yr: 3.607135454
SOX - Oxides of Sulphur Tons/Yr: 0.0377346067
Particulate Matter Tons/Yr: 0.440400361
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.43848959359

HWTS:
Name: SOUTHERN CALIFORNIA EDISON RECOVERY SUBSTATION
Address: 20101 GOLDENWEST ST
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 92648
EPA ID: CAC002828234
Inactive Date: 12/02/2015
Create Date: 09/01/2015

OXY USA INC (Continued) **U001577333**

Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 800
Mailing Address 2: Not reported
Mailing City,State,Zip: ROSEMEAD, CA 917700000
Owner Name: SOUTHERN CALIFORNIA EDISON
Owner Address: PO BOX 800
Owner Address 2: Not reported
Owner City,State,Zip: ROSEMEAD, CA 917700000
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: SARA M. DUVALL
Contact Address: P.O. BOX 800
Contact Address 2: Not reported
City,State,Zip: ROSEMEAD, CA 91770
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 33.673787
Longitude: -118.011929

Name: ENSIGN - RIG 550
Address: 20101 GOLDENWEST ST
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 92648
EPA ID: CAC003207849
Inactive Date: 03/10/2023
Create Date: 12/09/2022
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 7001 CHARITY AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: BAKERSFIELD, CA 93308
Owner Name: ENSIGN ENERGY
Owner Address: 7001 CHARITY AVE
Owner Address 2: Not reported
Owner City,State,Zip: BAKERSFIELD, CA 93308
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: SCOTT ERICKSON
Contact Address: 7001 CHARITY AVE
Contact Address 2: Not reported
City,State,Zip: BAKERSFIELD, CA 93308
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: Temporary
Category: State
Latitude: 33.674473999999996
Longitude: -118.02369100999999

HAZNET:
Name: SOUTHERN CALIFORNIA EDISON RECOVERY SUBSTATION
Address: 20101 GOLDENWEST ST
Address 2: Not reported

OXY USA INC (Continued) **U001577333**

City,State,Zip: HUNTINGTON BEACH, CA 926482628
Contact: SARA DUVALL
Telephone: 6263021212
Mailing Name: Not reported
Mailing Address: PO BOX 800

Year: 2015
Gepaid: CAC002828234
TSD EPA ID: CAD050806850
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 11.59

Additional Information:
Year: 2015
Gen EPA ID: CAC002828234

Shipment Date: 20150918
Creation Date: 12/2/2015 22:15:28
Receipt Date: 20150918
Manifest ID: 008786443FLE
Trans EPA ID: CAD072953771
Trans Name: UNITED PUMPING SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: CLEAN HARBORS LOS ANGELES LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 7.79
Waste Quantity: 2050
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150918
Creation Date: 12/2/2015 22:15:28
Receipt Date: 20150918
Manifest ID: 008786442FLE
Trans EPA ID: CAD072953771
Trans Name: UNITED PUMPING SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD050806850
Trans Name: CLEAN HARBORS LOS ANGELES LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil

OXY USA INC (Continued) **U001577333**

RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 3.8
Waste Quantity: 1000
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CIWQS:
Name: Storm,H.B. Production Facility
Address: 20101 GOLDENWEST STREET
City,State,Zip: HUNTINGTON BEACH, CA 92648
Agency: Aera Energy LLC
Agency Address: 10000 Ming Avenue, Bakersfield, CA 93311
Place/Project Type: Oil/Gas Extraction
SIC/NAICS: 1311
Region: 8
Program: INDSTW
Regulatory Measure Status: Historical
Regulatory Measure Type: NPDES Permit
Order Number: R8-2002-0078
WDID: 8 303885001
NPDES Number: CAS618001
Adoption Date: 10/25/2002
Effective Date: 10/25/2002
Termination Date: 06/15/2012
Expiration/Review Date: 10/01/2007
Design Flow: 0.5
Major/Minor: Minor
Complexity: B
TTWQ: 3
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.67056
Longitude: -118.01887

Name: Storm,H.B. Production Facility
Address: 20101 GOLDENWEST STREET
City,State,Zip: HUNTINGTON BEACH, CA 92648
Agency: Oxy USA Inc.
Agency Address: 20101 Goldenwest Street, Huntington Beach, CA 92648
Place/Project Type: Oil/Gas Extraction
SIC/NAICS: 1311
Region: 8
Program: INDSTW
Regulatory Measure Status: Historical
Regulatory Measure Type: NPDES Permit
Order Number: R8-2012-0029
WDID: 8 303885001
NPDES Number: CAS618001
Adoption Date: 06/15/2012
Effective Date: 06/15/2012
Termination Date: 12/07/2018

OXY USA INC (Continued) **U001577333**

Expiration/Review Date: 06/01/2017
Design Flow: 0.5
Major/Minor: Minor
Complexity: B
TTWQ: 3
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.67056
Longitude: -118.01887

CERS:
Name: SO CA GAS CO - OM2503
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 441377
CERS ID: 10768957
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-04-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-28-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-07-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No problems found.
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-02-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTED BY B. KHO
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer

OXY USA INC (Continued) **U001577333**

Entity Name:	Mariza Arnot
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Erica Jacalone
Entity Title:	Not reported
Affiliation Address:	PO Box 2300, M/L SC9314
Affiliation City:	Chatsworth
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91313
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 2300, M/L SC9314
Affiliation City:	CHATSWORTH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91313
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	SO CA GAS CO - OM2503 CRC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 634-3199,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jason Anderson
Entity Title:	District Operations Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Southern California Gas Company
Entity Title:	Not reported
Affiliation Address:	PO BOX 2300, M/L SC9314
Affiliation City:	Chatsworth
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91313-2300

OXY USA INC (Continued) **U001577333**

Affiliation Phone: (714) 634-3199,

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Parent Corporation
Entity Name: Southern California Gas Company
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: ENVENT CORPORATION
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 466568
CERS ID: 110041522661
CERS Description: US EPA Air Emission Inventory System (EIS)

Name: SCE RECOVERY SUBSTATION
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 69535
CERS ID: 10175719
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-02-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-23-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-29-2014

OXY USA INC (Continued) **U001577333**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-27-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS approved.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Southern California Edison
Entity Title: Not reported
Affiliation Address: P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City: Rosemead
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91770
Affiliation Phone: (626) 302-1212,

Affiliation Type Desc: Environmental Contact
Entity Name: Environmental Notification Center
Entity Title: Not reported
Affiliation Address: P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City: Rosemead
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91770
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Jeremy Gates
Entity Title: Senior Advisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District

OXY USA INC (Continued) **U001577333**

Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Southern California Edison, Transmission and Distribution Organization (TD)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jeremy Gates
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City:	Rosemead
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91770
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Southern California Edison
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(626) 302-1212,
Name:	SCE SOCO SUBSTATION
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	155371
CERS ID:	10180479
CERS Description:	Chemical Storage Facilities

OXY USA INC (Continued) **U001577333**

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-23-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-02-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Jeremy Gates
Entity Title: Senior Advisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Southern California Edison
Entity Title: Not reported
Affiliation Address: P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City: Rosemead
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91770

OXY USA INC (Continued) **U001577333**

Affiliation Phone:	(626) 302-1212,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jeremy Gates
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City:	Rosemead
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91770
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Southern California Edison
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(626) 302-1212,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Southern California Edison, Transmission and Distribution Organization (TD)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Environmental Notification Center
Entity Title:	Not reported
Affiliation Address:	P.O. Box 5085 (Attn: ESD, Programs & Governance)
Affiliation City:	Rosemead
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91770
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120

OXY USA INC (Continued) **U001577333**

Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Name: AREA ENERGY LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92646
Site ID: 452219
CERS ID: 110041469862
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: DIANA LANG
Entity Title: REGULATORY ENV COORD
Affiliation Address: 111 W OCEAN BLVDSTE 800
Affiliation City: LONGBEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Local Agency Caseworker
Entity Name: GENIECE HIGGINS ORNG CNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTAANA
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Regional Board Caseworker
Entity Name: CARL BERNHARDT SANTA ANA RWQCB REGN 8
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREETNA SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: NORTH & SOUTH OF BOLSA CHICA
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 518800
CERS ID: 10784464
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-13-2025
Violations Found: No
Eval Type: Routine done by local agency

OXY USA INC (Continued) **U001577333**

Eval Notes: On site for routine Hazardous Materials inspection. Consent to enter and inspect was granted by Desmond Fuzee, HSE Advisor Sr. Drove throughout location accompanied by Mr. Fuzee and observed hazardous materials storage areas. The following materials were observed in amounts that meet or exceed the minimum amounts required for disclosure: - SCW4056 Scale Inhibitor - CRW3658 Corrosion Inhibitor - PAO103 Paraffin Facility has submitted to CERS for 2024. Employee training documents were available
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. The inspection was conducted with Desmond Fuzee, HSE Advisor. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - SCW4056 Scale Inhibitor - CRW3658A Corrosion Inhibitor Facility has submitted to CERS for 2022. Employee training documents were available for review. The facility is respon
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Desmond Fuzee
Entity Title: Sr. HSE Advisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: SoCal Holding LLC
Entity Title: Not reported
Affiliation Address: 1 World Trade Center Suite 1500
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90831
Affiliation Phone: (562) 999-8552,

Affiliation Type Desc: Document Preparer
Entity Name: Desmond Fuzee
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

OXY USA INC (Continued) **U001577333**

Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Desmond Fuzee
Entity Title: Not reported
Affiliation Address: 1 World Trade Center Suite 1500
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90831
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Terry Junkins
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (562) 999-8638,

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1 World Trade Center Suite 1500
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90831
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: CALIFORNIA RESOURCES PRODUCTION CORP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: SHELL WESTERN E & P INC., SWPI HUNTINGTON BCH GAS
Address: 20101 GOLDENWEST STREET
City,State,Zip: HUNTINGTON BEACH, CA
Site ID: 902833

OXY USA INC (Continued) **U001577333**

CERS ID: SL208153870
CERS Description: Cleanup Program Site

A37 **ERNS** **2000532050**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 37 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	532050
Description of Incident:	LEAK IN 2 INCH FLOW LINE SERVICING A LARGER LINE
Type of Incident:	FIXED
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2000-06-14 01:34:00
Incident DTG:	DISCOVERED
Incident Location:	OIL AND GAS PRODUCTION
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	532050
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	REFINERY
Power Generating Facility:	U
Generating Capacity:	Not reported

(Continued) **2000532050**

Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported

(Continued) **2000532050**

Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	532050
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	SOIL
Additional Medium Info:	DRY WETLAND
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SECURED LEAK/WILL COMMENCE CLEAN UP AT DAY LIGHT
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	CLEAR
Air Temperature:	60
Wind Speed:	Not reported
Wind Direction:	Not reported

(Continued) **2000532050**

Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	M
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	PRODUCT HAS IMPACTED THE DRY WETLANDS AREA KNOWN AS BOLSA CHICA/PRODUCT WILL BE RECOVERED BY HAND SINCE SOME PICKLE WEED IS IN THE AREA/CALL WILL CALL OES
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	532050
Site ID:	2000532050
Date Time Received:	2000-06-14 05:04:40
Date Time Complete:	2000-06-14 05:11:05
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	532050
Chris Code:	OIL

(Continued) **2000532050**

Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	1
Unit of Measure:	BARREL(S)
Name of Material:	OIL: CRUDE
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

A38 **CHMIRS** **S126328085**
Target Property **20101 GOLDENWEST STREET, WELL #52E** **N/A**
HUNTINGTON BEACH, CA

Site 38 of 60 in cluster A

Actual:
37 ft.

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST STREET, WELL #52E
City,State,Zip:	HUNTINGTON BEACH, CA
OES Incident Number:	20-2058
OES notification:	04/15/2020
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:	Yes
Waterway:	Wet Cell (self contained)
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported

(Continued) **S126328085**

Type:	PETROLEUM
Measure:	Oz.
Other:	Not reported
Date/Time:	900
Year:	2020
Agency:	National Response Center
Incident Date:	04/15/2020
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Stopped,Contained
Site Type:	Wet Cell (self contained)
E Date:	Not reported
Substance:	Oil, crude
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:	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:	Per NRC #1275450, " Caller reported a release of 1 ounce of crude oil was released from a well into an adjacent wet cell creating a 10 x 10 foot sheen due to equipment failure." SHEEN LENGTH: 10 feet SHEEN WIDTH: 10 feet BODY OF WATER: Wet cell TYPE OF FIXED OBJECT: Wellhead

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A39 **ERNS** **2000542211**
Target Property **20101 GOLDENWEST STREET** **N/A**
HUNTINGTON BEACH, CA 92648

Site 39 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	542211
Description of Incident:	A 4 INCH GATHERING LINE LEAKED DUE TO UNKNOWN CAUSES
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	2000-09-15 06:30:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST STREET
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648

(Continued) **2000542211**

Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	542211
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	GATHERING
DOT Regulated:	N
Pipeline Above Ground:	BELOW
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported

(Continued) **2000542211**

Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	542211
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N

(Continued) **2000542211**

Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	BOLSA CHICA WETLANDS
Body of Water:	BOLSA CHICA WETLANDS
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SHUTDOWN SYSTEM,INVESTIGATION UNDERWAY, SOURCE STOPPED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	FOGGY
Air Temperature:	70
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER WILL NOTIFY: CA OES/ CA DEPT FISH AND GAME / MSO LA/LB / CA DIV OIL AND GAS / CA STATE LAND COMMISSION
State Agency Notified:	Not reported

(Continued) **2000542211**

Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	542211
Site ID:	2000542211
Date Time Received:	2000-09-15 10:55:54
Date Time Complete:	2000-09-15 11:07:45
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	542211
Chris Code:	NCC
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	20
Unit of Measure:	GALLON(S)
Name of Material:	PRODUCE WATER
If Reached Water:	YES
Amount in Water:	20
Unit of Measure Reach Water:	GALLON(S)

Year:	2000
NRC Report #:	542211
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	2
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	2
Unit of Measure Reach Water:	GALLON(S)

A40 **CHMIRS** **S106393923**
Target Property **20101 GOLDENWEST ST - SPILL SITE IS IN UNI AREA OF ORANGE CO** **N/A**
UNINCORPORATED COUNTY AREA, CA 92648

Site 40 of 60 in cluster A

Actual: **37 ft.**

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST ST - SPILL SITE IS IN UNI AREA OF ORANGE CO
City,State,Zip:	UNINCORPORATED COUNTY AREA, CA 92648
OES Incident Number:	0-3282
OES notification:	07/24/2000
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:	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:	Aera Energy
Incident Date:	7/24/200012:00:00 AM
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
Gallons:	20

(Continued) **S106393923**

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 operator error associated with a pipe line cleaning activity caused the spill. No water was contacted but is in the Bolsa Chica Wetlands, some pickle weed is impacted.

A41 **SHELL WESTERN E&P INC** **LUST** **S106392545**
Target **20101 GOLDEN WEST** **CHMIRS** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 41 of 60 in cluster A

Actual: **37 ft.**

LUST REG 8:

Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDEN WEST
City:	HUNTINGTON BEACH
Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000890T
Local Case Num:	88UT110
Case Type:	Other ground water affected
Substance:	8006619,8052
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900704
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	5/20/1988
Enforcement Date:	Not reported
Close Date:	3/13/1997
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported

SHELL WESTERN E&P INC (Continued) **S106392545**

Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6792236
Longitude:	-118.0061354
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	CAB
Staff Initials:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CHMIRS:

Name:	Not reported
Address:	20101 GOLDEN WEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	17-2563
OES notification:	04/03/2017
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

SHELL WESTERN E&P INC (Continued) **S106392545**

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:	Oil Field
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Bbl.(s)
Other:	Not reported
Type:	PETROLEUM
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	2152
Year:	2017
Agency:	California Resources Production Company
Incident Date:	04/03/2017
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	N/A
E Date:	Not reported
Substance:	Produced Water
Quantity Released:	50
Unknown:	Not reported
Substance #2:	Crude Oil 5
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Yes
#2 Pipeline:	Yes
#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: A leak occurred on an onshore pipeline at the Huntington Beach Facility. The release origin is unknown, but it is contained to the pipe chase. The release has been stopped with no threats to life, property, or environment. The release did not enter a storm drain or waterway. The release will be mitigated by an undetermined contractor.

SHELL WESTERN E&P INC (Continued) **S106392545**

Name:	Not reported
Address:	20101 GOLDEN WEST RD. SOUTH WEST CORNER OF THE NORTH BOLSA OIL FIELD.
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	8-1361
OES notification:	03/19/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Bolsa Chica Wetlands
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	DFG
Incident Date:	3/19/199812:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Acid unknown
Gallons:	unk
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0

SHELL WESTERN E&P INC (Continued) **S106392545**

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:	Form of acid has gotten into a ditch and has gotten into the Bolsa Chica Wetlands. Unknown when this occured and was discovered a couple days ago.

A42 **ERNS 2000536356**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 42 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	536356
Description of Incident:	THE CALLER STATED THAT WHILE CLEANING A PIPELINE THERE WAS A RELEASE FROM AN 8 INCH OIL FIELD GATHERING LINE.
Type of Incident:	PIPELINE
Incident Cause:	OPERATOR ERROR
Incident Date Time:	2000-07-24 08:50:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	536356
Aircraft Type:	UNKNOWN

(Continued) **2000536356**

Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	GATHERING
DOT Regulated:	N
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U

(Continued) **2000536356**

Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	536356
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND

(Continued) **2000536356**

Additional Medium Info:	BOLSA CHICA DRY WATERWAY
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	RELEASE STOPPED IMMEDIATELY. SHOVEL USED TO CLEAN UP
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	OVERCAST
Air Temperature:	70
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	M
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER WILL NOTIFY: CA OES, USCG
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	536356
Site ID:	2000536356
Date Time Received:	2000-07-24 12:32:53
Date Time Complete:	2000-07-24 12:42:30
Call Type:	INC
Responsible Company:	AERA ENERGY LLC

(Continued) **2000536356**

Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	536356
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	20
Unit of Measure:	GALLON(S)
Name of Material:	OIL: CRUDE
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

Year:	2000
NRC Report #:	536356
Chris Code:	NCC
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	20
Unit of Measure:	GALLON(S)
Name of Material:	PRODUCE WATER
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

A43 **ERNS 8721830**
Target Property **N. BOLSA/WELL #61-B/20101 GOLDENWEST AVE** **N/A**
HUNTINGTON BEACH, CA

Site 43 of 60 in cluster A

Actual: 37 ft.

ERNS 1987-1989:

NRC Report #:	00021830
Envid:	8721830
Spill Date:	19870923
Spill Time:	0830
EPA Region:	09
EPA Region 2:	Not reported
County:	ORANGE
Spill Address 1:	Not reported
Spill City:	HUNTINGTON BEACH
Spill State:	CA
Spill Zip:	Not reported
Number of Fatalities:	0
Number of Injured:	0
Number of Evacuees:	0
Damage Dollar Amount:	0.00
Initial Report:	True
Updated Report:	True

(Continued) **8721830**

Damage:	False
EPA Notified:	True
Air:	False
Land:	True
Water:	True
Groundwater:	False
Facility:	False
Other:	False
Notes:	SHERMAN CREEK
Transport Related:	False
Equipment Failure:	True
Operator Error:	False
Natural Phenomenon:	False
Dumping:	False
Other:	False
Unknown:	False
Cause Code:	Not reported
Source:	Not reported
Mode:	F
SRC:	E
Report Number:	Not reported
C.G. Unit:	Not reported
Type of Agency:	Not reported
Responding Agency:	Not reported
EPA Report Number:	87-3921
DC:	19950428
Discharger ID:	21830
Discharger DUNS:	Not reported
Discharger:	SHELL (JOHN MELO)
Discharger Affiliation:	Not reported
Discharger Address:	20101 GOLDENWEST
Discharger County:	ORANGE
Discharger City:	HUNTINGTON BEACH
Discharger State:	CA
Discharger Zip:	92648
CID1:	1858
Material Spilled 1:	OIL : CRUDE
CC1:	OIL
Spill Total Quantity 1:	15.00
Units 1:	GAL
In Water 1:	0.00
Units in Water 1:	Not reported
Quantity Lbs 1:	105.00
CAS 1:	Not reported
DOT Number 1:	UN1270
CID2:	Not reported
Material Spilled 2:	Not reported
CC2:	Not reported
Spill Total Quantity 2:	Not reported
Units 2:	Not reported
In Water 2:	Not reported
Units in Water 2:	Not reported
Quantity Lbs 2:	Not reported
CAS 2:	Not reported
DOT Number 2:	Not reported
CID3:	Not reported
Material Spilled 3:	Not reported

(Continued) **8721830**

CC3:	Not reported
Spill Total Quantity 3:	Not reported
Units 3:	Not reported
In Water 3:	Not reported
Units in Water 3:	Not reported
Quantity Lbs 3:	Not reported
CAS 3:	Not reported
DOT Number 3:	Not reported
Description:	WELL BLOW-OUT/FLO TO LAND & WATER/ 1/2 GA TO:CREEK. WELL BLOW-OUT/FLO TO LAND &
Site Location:	N. BOLSA/WELL #61-B/20101 GOLDENWEST AVE
Action:	RP=CU
Comments:	Not reported

A44 **ERNS** **2000534354**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 44 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	534354
Description of Incident:	6 INCH PRODUCTION GATHERING LINE / CAUSE UNKNOWN
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	2000-07-05 07:50:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE
Location Zip:	92648
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	534354
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported

(Continued) **2000534354**

Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	GATHERING
DOT Regulated:	N
Pipeline Above Ground:	BELOW
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported

(Continued) **2000534354**

Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	534354
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	Not reported
Body of Water:	BOLSACHICA WET LANDS
Tributary of:	Not reported
Release Secured:	U

(Continued) **2000534354**

Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	ALL WELL SHUT IN / FREE LIQUIDS WILL BE RECOVED WITH A VACUUM TRUCK / SPILL SECURED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	OVERCAST
Air Temperature:	70
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	M
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER WILL NOTIFY: CA OES / MSO LA/LB / CA OSPR
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	534354
Site ID:	2000534354
Date Time Received:	2000-07-05 11:16:56
Date Time Complete:	2000-07-05 11:23:08
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA

(Continued) **2000534354**

Responsible Zip: 92648
On Behalf: Y
Source: UNAVAILABLE

Material Involved:
Year: 2000
NRC Report #: 534354
Chris Code: OIL
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 5
Unit of Measure: BARREL(S)
Name of Material: OIL: CRUDE
If Reached Water: YES
Amount in Water: 5
Unit of Measure Reach Water: BARREL(S)

Year: 2000
NRC Report #: 534354
Chris Code: NCC
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 10
Unit of Measure: BARREL(S)
Name of Material: PRODUCE WATER
If Reached Water: YES
Amount in Water: 10
Unit of Measure Reach Water: BARREL(S)

A45 **AERA - HUNTINGTON BEACH DCU** **TSCA** **1009308155**
Target **20101 GOLDENWEST STREET** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 45 of 60 in cluster A

Actual:
37 ft.

TSCA:
Site Name: AERA - HUNTINGTON BEACH DCU
Site Address: 20101 GOLDENWEST STREET
Site City,State,Zip: HUNTINGTON BEACH, CA 92648
Site County: Not reported
Facility ID: Not reported

TSCA 1986-2002:
Manufacturer/Importer Status: Manufacture
CBIMFIM: Not reported
Company Name: AERA ENERGY LLC
TSCA Name: AERA - HUNTINGTON BEACH DCU
Facility Address: 20101 GOLDENWEST STREET
Facility Address 2: Not reported
Facility City,State,Zip: HUNTINGTON BEACH, CA 92648
Case Number: 8006142
Chemical Name: Natural gas

1986-2002 Chemical:
Case Number: 8006-14-2
Preferred CA Index Name: Natural gas
Submitter Name: Natural gas; Synthetic natural gas

AERA - HUNTINGTON BEACH DCU (Continued) **1009308155**

Chemical Substance Definition:	Raw natural gas, as found in nature, or a gaseous combination of hydrocarbons having carbon numbers predominantly in the range of C1 through C4 separated from raw natural gas by the removal of natural gas condensate, natural gas liquid, and natural g
Former Case Number:	Not reported
Molecular Formula:	Unspecified
UVCB Flag:	UVCB
EPA Inventory Flag:	Not reported

1986-2002 CUSAGG:

Case Number:	8006142
Range 86:	> 1B
Range 90:	> 1B
Range 94:	> 1B
Range 98:	> 1B
Range 02:	> 1B
Chemical Name:	Natural gas

A46 **CHMIRS S105661053**
Target Property **20101 GOLDENWEST STREET, HUNTINGTON BEACH FACILITY** **N/A**
HUNTINGTON BEACH, CA 92648

Site 46 of 60 in cluster A

Actual: 37 ft.

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST STREET, HUNTINGTON BEACH FACILITY
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	9-2709
OES notification:	06/26/1999
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 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

(Continued) **S105661053**

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:	1999
Agency:	Area Energy
Incident Date:	6/26/199912:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude oil
BBLS:	20
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:	Small pressure vessel malfunctioning.
Name:	Not reported
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	3-5938
OES notification:	11/15/2003
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

(Continued) **S105661053**

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:	2003
Agency:	Aera Energy LLC
Incident Date:	11/15/200312:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Pipe Line
E Date:	Not reported
Substance:	crude oil
BBLS:	5
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:	Leak in oil field production line. All contained on the property.

A47 **CHMIRS** **S105665841**
Target **20101 GOLDENWEST ST.** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 47 of 60 in cluster A

Actual: **37 ft.**

CHMIRS:

Name:	Not reported
Address:	20101 GOLDENWEST ST.
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	0-4000
OES notification:	09/06/2000
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:	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:	Aera Energy
Incident Date:	9/6/200012:00:00 AM
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
BBLS:	2

(Continued) **S105665841**

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:	Flange leak on a 2" test line. This occurred on the facility strip and no threat to the Bolsa Chica Wetlands

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A48 **ENSIGN - RIG 550** **RCRA NonGen / NLR** **1027515959**
Target **20101 GOLDENWEST ST** **CAC003207849**
Property **HUNTINGTON BEACH, CA 92648**

Site 48 of 60 in cluster A

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:		20221209
Handler Name:		Ensign - Rig 550
Handler Address:		20101 Goldenwest St
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003207849
Contact Name:		SCOTT ERICKSON
Contact Address:		7001 CHARITY AVE
Contact City,State,Zip:		BAKERSFIELD, CA 93308
Contact Telephone:		661-203-0063
Contact Fax:		Not reported
Contact Email:		CLERK@KERNOILFILTERRECYCLING.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		7001 CHARITY AVE
Mailing City,State,Zip:		BAKERSFIELD, CA 93308
Owner Name:	Ensign Energy	
Owner Type:		Other
Operator Name:	Scott Erickson	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

ENSIGN - RIG 550 (Continued) **1027515959**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221213
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SCOTT ERICKSON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7001 CHARITY AVE
Owner/Operator City,State,Zip:	BAKERSFIELD, CA 93308
Owner/Operator Telephone:	661-203-0063
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: ENSIGN ENERGY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

ENSIGN - RIG 550 (Continued) **1027515959**

Owner/Operator Address: 7001 CHARITY AVE
Owner/Operator City,State,Zip: BAKERSFIELD, CA 93308
Owner/Operator Telephone: 661-589-0111
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20221209
Handler Name: ENSIGN - RIG 550
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A49 **SHELL WESTERN E&P INC** **LUST** **S123816206**
Target **20101 GOLDENWEST ST** **CERS HAZ WASTE** **N/A**
Property **HUNTINGTON BEACH, CA 92648** **HWTS**
HAZNET
Site 49 of 60 in cluster A **NPDES**
CIWQS
Actual: **CERS**
37 ft.

ORANGE CO. LUST:
Name: SHELL WESTERN E&P INC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648-2628
Region: ORANGE
Facility Id: 88UT110
Current Status: Closed
Type of Closure: Closure certification issued
Released Substance: Not reported
Date Closed: 03/13/1997
File Location: Local Agency

CERS HAZ WASTE:
Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address: 20101 GOLDENWEST ST

SHELL WESTERN E&P INC (Continued) **S123816206**

City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 394939
CERS ID: 10446451
CERS Description: Hazardous Waste Generator

HWTS:
Name: SOCAL HOLDING LLC - HUNTINGTON BEACH FACILITY
Address: 20101 GOLDENWEST ST
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 92648
EPA ID: CAD981443807
Inactive Date: Not reported
Create Date: 04/10/1987
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1 WORLD TRADE CENTER, SUITE 1500
Mailing Address 2: Not reported
Mailing City,State,Zip: LONG BEACH, CA 90831
Owner Name: SOCAL HOLDING LLC
Owner Address: 1 WORLD TRADE CENTER, SUITE 1500
Owner Address 2: Not reported
Owner City,State,Zip: LONG BEACH, CA 90831
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: THOMAS CROUTHERS
Contact Address: 1 WORLD TRADE CENTER, SUITE 1500
Contact Address 2: Not reported
City,State,Zip: LONG BEACH, CA 90831
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Active
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 33.674031
Longitude: -118.01164

NAICS:
EPA ID: CAD981443807
Create Date: 2002-03-14 16:36:26.000
NAICS Code: 211111
NAICS Description: Crude Petroleum and Natural Gas Extraction
Issued EPA ID Date: 1987-04-10 00:00:00
Inactive Date: Not reported
Facility Name: SOCAL HOLDING LLC - HUNTINGTON BEACH FACILITY
Facility Address: 20101 GOLDENWEST ST
Facility Address 2: Not reported
Facility City: HUNTINGTON BEACH
Facility County: Not reported
Facility State: CA
Facility Zip: 926482628

HAZNET:
Name: SOCAL HOLDING LLC - HUNTINGTON BEACH FACILITY
Address: 20101 GOLDENWEST ST
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 926482628

SHELL WESTERN E&P INC (Continued) **S123816206**

Contact:	THOMAS CROUTHERS
Telephone:	5625446308
Mailing Name:	Not reported
Mailing Address:	1 WORLD TRADE CENTER SUITE 1500
Year:	2021
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Year:	2021
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.24
Year:	2021
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.17
Year:	2019
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.57500
Year:	2019
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	551 - Laboratory waste chemicals
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.14000
Year:	2019
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.55000
Year:	2019
Gepaid:	CAD981443807
TSD EPA ID:	CAD028409019
CA Waste Code:	221 - Waste oil and mixed oil

SHELL WESTERN E&P INC (Continued) **S123816206**

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00000

Year: 2018
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.08000

Year: 2018
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.15000

Year: 2017
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.5

Click this hyperlink while viewing on your computer to access
126 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:
Year: 2021
EM Manifest ID: Not reported
Shipment Date: 12/7/2020
Shipment Date: 12/7/2020
Receipt Date: 12/16/2020
Manifest Number: 001441492JJK
Generator EPA ID: CAD981443807
Name: OXY USA INC HUNTINGTON BEACH
Address: 20101 GOLDENWEST AVE
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH 92648
Telephone: Not reported
Contact: DIANA LANG
Contact Telephone: 562-624-3314
Contact Email: Not reported
Transporter 1 EPA ID: CAD981443807
Transporter Name: Not reported
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: Not reported
Transporter Name 2: Not reported
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD028409019
TSDF Name: CROSBY & OVERTON
TSDF Address 1: W. 17TH STREET

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF Address 2:	Not reported
TSDF City,State,Zip:	LONG BEACH 90813-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	12/7/2020
Shipment Date:	12/7/2020
Receipt Date:	12/16/2020
Manifest Number:	001441492JJK
Generator EPA ID:	CAD981443807
Name:	OXY USA INC HUNTINGTON BEACH
Address:	20101 GOLDENWEST AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH 92648
Telephone:	Not reported
Contact:	DIANA LANG
Contact Telephone:	562-624-3314
Contact Email:	Not reported
Transporter 1 EPA ID:	CAD981443807
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD028409019
TSDF Name:	CROSBY & OVERTON
TSDF Address 1:	W. 17TH STREET
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LONG BEACH 90813-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	12/7/2020
Shipment Date:	12/7/2020
Receipt Date:	12/16/2020
Manifest Number:	001441492JJK
Generator EPA ID:	CAD981443807
Name:	OXY USA INC HUNTINGTON BEACH
Address:	20101 GOLDENWEST AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH 92648

SHELL WESTERN E&P INC (Continued) **S123816206**

Telephone:	Not reported
Contact:	DIANA LANG
Contact Telephone:	562-624-3314
Contact Email:	Not reported
Transporter 1 EPA ID:	CAD981443807
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD028409019
TSDF Name:	CROSBY & OVERTON
TSDF Address 1:	W. 17TH STREET
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LONG BEACH 90813-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Additional Information:

Year:	2017
Gen EPA ID:	CAD981443807
Shipment Date:	20170630
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170707
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	016505806JJK

SHELL WESTERN E&P INC (Continued) **S123816206**

Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.045
Waste Quantity:	90
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170707
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60

SHELL WESTERN E&P INC (Continued) **S123816206**

Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170707
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170630
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170707
Manifest ID:	016505806JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Shipment Date:	20170314
Creation Date:	5/24/2017 18:31:05
Receipt Date:	20170317
Manifest ID:	016505740JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170314
Creation Date:	5/24/2017 18:31:05
Receipt Date:	20170317
Manifest ID:	016505740JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2016
Gen EPA ID:	CAD981443807

Shipment Date:	20151202
Creation Date:	2/8/2016 22:17:20
Receipt Date:	20151203

SHELL WESTERN E&P INC (Continued) **S123816206**

Manifest ID:	013880354JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.00834
Waste Quantity:	2
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06

SHELL WESTERN E&P INC (Continued) **S123816206**

Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2015
Gen EPA ID:	CAD981443807
Shipment Date:	20151202
Creation Date:	2/8/2016 22:17:20
Receipt Date:	20151203
Manifest ID:	013880354JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075

SHELL WESTERN E&P INC (Continued) **S123816206**

Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	2/5/2016 22:15:30
Receipt Date:	20151120
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151111
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	013880336JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.00834
Waste Quantity:	2
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2014
Gen EPA ID:	CAD981443807

Shipment Date:	20141001
Creation Date:	12/17/2014 22:14:47
Receipt Date:	20141009
Manifest ID:	012446262JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.75
Waste Quantity:	1500
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140513
Creation Date:	7/12/2014 22:15:17
Receipt Date:	20140516
Manifest ID:	012446131JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140513
Creation Date:	7/12/2014 22:15:17
Receipt Date:	20140516
Manifest ID:	012446131JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.055

SHELL WESTERN E&P INC (Continued) **S123816206**

Waste Quantity:	110
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140513
Creation Date:	7/12/2014 22:15:17
Receipt Date:	20140516
Manifest ID:	012446131JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.02085
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140423
Creation Date:	7/10/2014 22:15:07
Receipt Date:	20140423
Manifest ID:	006842777JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Shipment Date:	20140204
Creation Date:	4/1/2014 22:15:03
Receipt Date:	20140214
Manifest ID:	012446077JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140204
Creation Date:	4/1/2014 22:15:03
Receipt Date:	20140214
Manifest ID:	012446077JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140107
Creation Date:	3/3/2014 22:15:17
Receipt Date:	20140110
Manifest ID:	012446065JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140107
Creation Date:	3/3/2014 22:15:17
Receipt Date:	20140110
Manifest ID:	012446065JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140107
Creation Date:	3/3/2014 22:15:17
Receipt Date:	20140110
Manifest ID:	012446065JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

SHELL WESTERN E&P INC (Continued) **S123816206**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.475
Waste Quantity:	950
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D018
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

NPDES:

Name:	SOCAL HOLDING LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30I027973
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:	11/28/2018
Operator Name:	SoCal Holding LLC
Operator Address:	1 World Trade Center Suite 1500
Operator City:	Long Beach
Operator State:	California
Operator Zip:	90831

Name:	SOCAL HOLDING LLC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	503516
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30I027973
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/28/2018
Termination Date Of Regulatory Measure:	Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 1 World Trade Center Suite 1500
Discharge Name: SoCal Holding LLC
Discharge City: Long Beach
Discharge State: California
Discharge Zip: 90831
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

CIWQS:
Name: Socal Holding Llc
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Agency: SoCal Holding LLC
Agency Address: 1 World Trade Center Suite 1500, Long Beach, CA 90831
Place/Project Type: Industrial - Crude Petroleum and Natural Gas
SIC/NAICS: 1311
Region: 8
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 30I027973
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 11/28/2018
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: 33.67056
Longitude: -118.01887

CERS:
Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 394939
CERS ID: 10446451
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 05-06-2014
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description: Failure to include adequate emergency response procedures in the

SHELL WESTERN E&P INC (Continued) **S123816206**

	business plan for a release or threatened release.
Violation Notes:	25505. (a) A business plan shall contain all of the following information: (1) The inventory of information required by this article and additional information the governing body of the unified program agency finds necessary to protect the health and safety of persons, property, or the environment. Locally required information shall be adopted by local ordinance or required by state law. This information shall be subject to trade secret protection specified in Section 25512. (2) A site map that contains north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Updates to existing maps to meet these requirements shall be completed by January 1, 2015. (3) Emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material, i
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	394939
Site Name:	California Resources Production Corporation
Violation Date:	08-28-2013
Citation:	HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description:	Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes:	25505. (a) A business plan shall contain all of the following information: (1) The inventory of information required by this article and additional information the governing body of the unified program agency finds necessary to protect the health and safety of persons, property, or the environment. Locally required information shall be adopted by local ordinance or required by state law. This information shall be subject to trade secret protection specified in Section 25512. (2) A site map that contains north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Updates to existing maps to meet these requirements shall be completed by January 1, 2015. (3) Emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material, i
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	394939
Site Name:	California Resources Production Corporation
Violation Date:	05-06-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Need to update map with all chemicals present.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

SHELL WESTERN E&P INC (Continued) **S123816206**

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 06-24-2014
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes: 25505. (a) A business plan shall contain all of the following information: (1) The inventory of information required by this article and additional information the governing body of the unified program agency finds necessary to protect the health and safety of persons, property, or the environment. Locally required information shall be adopted by local ordinance or required by state law. This information shall be subject to trade secret protection specified in Section 25512. (2) A site map that contains north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Updates to existing maps to meet these requirements shall be completed by January 1, 2015. (3) Emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material, i
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 03-02-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 03/15/2016. 3/2/2016 - NOV Letter, failure to submit annual inventory submittal/certification. 3/15/2016 - online submission recv'd.
Violation Division: Huntington Beach Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 06-24-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Need to update map with all chemicals present.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 04-14-2014
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)

SHELL WESTERN E&P INC (Continued) **S123816206**

Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes: 25505. (a) A business plan shall contain all of the following information: (1) The inventory of information required by this article and additional information the governing body of the unified program agency finds necessary to protect the health and safety of persons, property, or the environment. Locally required information shall be adopted by local ordinance or required by state law. This information shall be subject to trade secret protection specified in Section 25512. (2) A site map that contains north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Updates to existing maps to meet these requirements shall be completed by January 1, 2015. (3) Emergency response plans and procedures in the event of a reportable release or threatened release of a hazardous material, i
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 04-14-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Need to update map with all chemicals present.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Violation Date: 08-28-2013
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Need to update map with all chemicals present.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-13-2025
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Consent to enter and inspect was granted by Desmond Fuzee, HSE Advisor, Sr. Walked throughout the facility and observed hazardous waste storage areas. - Containers were closed and properly labeled. - Manifests were available and reviewed. - Employees are reported to be trained. - Emergency plan is posted on site. - No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste

SHELL WESTERN E&P INC (Continued) **S123816206**

violations were observed this dat
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-01-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct an annual routine Hazardous Waste Inspection. Met with Diana who explained the process, escorted me through the site and gave consent to enter/inspect. Facility contains HW storage area , area is empty Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to DTSC. (Department of Toxic Substances Control, P.O. Box 400, Sacramento, CA 95812-0400). 2. Hazardous Waste Emergency Response information. Verified contact and owner information.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-14-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed CERS submission (submitted 3/19/2014). Requested business emergency plan to be submitted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-06-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Please contact this agency for a routine hazardous waste inspection. Facility contact and phone number do not seem to be current. Jnegro@ochca.com Thank you
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported

SHELL WESTERN E&P INC (Continued) **S123816206**

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-04-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HMBP not certified by March 1 - Mailed Late Notice Letter.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: could not find location. Stopped and called. Will have to call before visit. It is on oil field.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-29-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Write up and email report
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a Hazardous Waste Inspection. Met with Kristy Monju who explained the process, escorted me through the site and gave consent to enter/inspect. Facility contains: Hazardous waste storage area. Facility has gotten rid of the following waste stream: Stratford solids Facility recycles less than 27 per month of oil, it is put back into the process. Hazardous waste containers are properly labeled and covered. All containers storing hazardous waste must be labeled with the following information: 1. The words HAZARDOUS Waste 2. Waste (name) 3. Hazardous property of the waste (e.g. toxic, flammable, corrosive, etc.) 4. Physical state of the waste (liquid or solid) 5. Name and address of the business. 6. Accumulation date (date the first drop of waste has been placed in container) Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). - Note: A copy of the federal manifest must be sent to [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-26-2021

SHELL WESTERN E&P INC (Continued) **S123816206**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Thomas Crouthers and Desmond Fuzee. Walked throughout the facility and observed hazardous waste storage areas. - Containers were closed and properly labeled. - Manifests were available and reviewed. - Employees are reported to be trained. - Emergency plan is posted on site. - No hazardous waste or universal waste observed in the dumpster/enclosure area. No hazardous waste violations were observed this date.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-02-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-10-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: review for ownership change
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-15-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-26-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: on site for a routine inspection. kristy was on site, she prefered to conduct the inspection another date.
Eval Division: Orange County Environmental Health

SHELL WESTERN E&P INC (Continued) **S123816206**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-28-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-26-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed file. Received Transfer of request Will conduct F03
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-24-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Entered into EC. Inspection report was lost. Uncovered Orange file
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 394939
Site Name: California Resources Production Corporation
Site Address: 20101 GOLDENWEST ST
Site City: HUNTINGTON BEACH
Site Zip: 92648
Enf Action Date: 03-02-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Annual online inventory submitted 3/15/2016.
Enf Action Division: Huntington Beach Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 394939
Site Name: California Resources Production Corporation
Site Address: 20101 GOLDENWEST ST
Site City: HUNTINGTON BEACH

SHELL WESTERN E&P INC (Continued) **S123816206**

Site Zip:	92648
Enf Action Date:	03-02-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	NOV Letter, failure to submit annual 2016 on-line inventory submittal/certification .
Enf Action Division:	Huntington Beach Fire Department
Enf Action Program:	UNSPEC
Enf Action Source:	CERS,

Coordinates:

Site ID:	394939
Facility Name:	California Resources Production Corporation
Env Int Type Code:	HWG
Program ID:	10446451
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	33.673830
Longitude:	-118.011870

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Desmond Fuzee
Entity Title:	Not reported
Affiliation Address:	1 World Trade Center Suite 1500
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90831
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1 World Trade Center Suite 1500
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90831
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	SoCal Holding LLC
Entity Title:	Not reported
Affiliation Address:	1 World Trade Center Suite 1500
Affiliation City:	LONG BEACH

SHELL WESTERN E&P INC (Continued) **S123816206**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 90831
Affiliation Phone: (562) 999-8200,

Affiliation Type Desc: Parent Corporation
Entity Name: CALIFORNIA RESOURCES PRODUCTION CORP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Desmond Fuzee
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Desmond Fuzee
Entity Title: Sr. HSE Advisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Terry Junkins
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (562) 714-3687,

Name: SOCAL HOLDING LLC
Address: 20101 GOLDENWEST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 528375
CERS ID: 868471
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: SoCal Holding LLC
Entity Title: Operator
Affiliation Address: 1 World Trade Center Suite 1500

SHELL WESTERN E&P INC (Continued) **S123816206**

Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90831
Affiliation Phone:	,

Name:	SHELL WESTERN E & P INC
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	903676
CERS ID:	T10000018105
CERS Description:	Cleanup Program Site

A50 **ERNS 8715822**
Target Property **20101 GOLDENWEST/WELL #N. BOLSA-81E** **N/A**
HUNTINGTON BEACH, CA

Site 50 of 60 in cluster A

Actual: 37 ft.

ERNS 1987-1989:

NRC Report #:	00015822
Envid:	8715822
Spill Date:	19870730
Spill Time:	1400
EPA Region:	09
EPA Region 2:	Not reported
County:	ORANGE
Spill Address 1:	Not reported
Spill City:	HUNTINGTON BEACH
Spill State:	CA
Spill Zip:	Not reported
Number of Fatalities:	0
Number of Injured:	0
Number of Evacuees:	0
Damage Dollar Amount:	0.00
Initial Report:	True
Updated Report:	True
Damage:	False
EPA Notified:	True
Air:	False
Land:	True
Water:	False
Groundwater:	False
Facility:	False
Other:	False
Notes:	Not reported
Transport Related:	False
Equipment Failure:	True
Operator Error:	False
Natural Phenomenon:	False
Dumping:	False
Other:	False
Unknown:	False
Cause Code:	Not reported
Source:	Not reported
Mode:	F
SRC:	E

(Continued) **8715822**

Report Number:	Not reported
C.G. Unit:	Not reported
Type of Agency:	Not reported
Responding Agency:	Not reported
EPA Report Number:	87-3392
DC:	19950428
Discharger ID:	15822
Discharger DUNS:	Not reported
Discharger:	SHELL OIL (JOHN MELO)
Discharger Affiliation:	Not reported
Discharger Address:	20101 GOLDENWEST
Discharger County:	ORANGE
Discharger City:	HUNTINGTON BEACH
Discharger State:	CA
Discharger Zip:	92648
CID1:	0
Material Spilled 1:	PROD WATER
CC1:	Not reported
Spill Total Quantity 1:	1.00
Units 1:	BBL
In Water 1:	0.00
Units in Water 1:	Not reported
Quantity Lbs 1:	0.00
CAS 1:	Not reported
DOT Number 1:	Not reported
CID2:	Not reported
Material Spilled 2:	Not reported
CC2:	Not reported
Spill Total Quantity 2:	Not reported
Units 2:	Not reported
In Water 2:	Not reported
Units in Water 2:	Not reported
Quantity Lbs 2:	Not reported
CAS 2:	Not reported
DOT Number 2:	Not reported
CID3:	Not reported
Material Spilled 3:	Not reported
CC3:	Not reported
Spill Total Quantity 3:	Not reported
Units 3:	Not reported
In Water 3:	Not reported
Units in Water 3:	Not reported
Quantity Lbs 3:	Not reported
CAS 3:	Not reported
DOT Number 3:	Not reported
Description:	PIPE LEAD AT PROD TRAP/FLO TO CONTAINMENT AREA (LAND)
Site Location:	20101 GOLDENWEST/WELL #N. BOLSA-81E
Action:	RP = CU/("PACIFIC VACUUM","IT BACKHOE" & "FIELD MAINTENANCE" CONTRACTORS)
Comments:	Not reported

A51 **RECOVERY OXY HUNTINGTON BEACH** **NPDES** **S119086939**
Target **20101 GOLDENWEST STREET** **CIWQS** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 51 of 60 in cluster A

Actual:
37 ft.

NPDES:

Name:	RECOVERY OXY HUNTINGTON BEACH
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30W002760
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Expired
Status Date:	10/15/2016
Operator Name:	Southern California Edison
Operator Address:	2244 Walnut Grove Ave GO 1 Quad 2C
Operator City:	Rosemead
Operator State:	California
Operator Zip:	91770

Name:	RECOVERY OXY HUNTINGTON BEACH PROJECT
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C377831
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported

RECOVERY OXY HUNTINGTON BEACH (Continued) **S119086939**

Status:	Terminated
Status Date:	04/25/2018
Operator Name:	Southern California Edison
Operator Address:	2244 Walnut Grove Ave GO 1 Quad 2C
Operator City:	Rosemead
Operator State:	California
Operator Zip:	91770

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	479126
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C377831
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:	10/14/2016
Processed Date:	10/14/2016
Status:	Active
Status Date:	10/14/2016
Place Size:	1.5
Place Size Unit:	Acres
Contact:	Mike Gallagher
Contact Title:	SCE ES-WQ SWPPP Coordinator
Contact Phone:	626-302-3213
Contact Phone Ext:	Not reported
Contact Email:	mike.gallagher@sce.com
Operator Name:	Southern California Edison
Operator Address:	2244 Walnut Grove Ave GO-1 Quad 2C
Operator City:	Rosemead
Operator State:	California
Operator Zip:	91770
Operator Contact:	Mike Gallagher
Operator Contact Title:	SCE ES-WQ SWPPP Coordinator
Operator Contact Phone:	626-302-3213
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	mike.gallagher@sce.com
Operator Type:	Special District
Developer:	Southern California Edison
Developer Address:	2244 Walnut Grove Ave GO1 Quad 2C
Developer City:	Rosemead
Developer State:	California
Developer Zip:	91770
Developer Contact:	Mike Gallagher
Developer Contact Title:	SCE ES-WQ SWPPP Coordinator
Constype Linear Utility Ind:	Y

RECOVERY OXY HUNTINGTON BEACH (Continued) **S119086939**

Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	Hazem Gabr
Certifier Title:	Water Quality Manager
Certification Date:	14-OCT-16
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	479126
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C377831
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/14/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Southern California Edison
Discharge Address:	2244 Walnut Grove Ave GO 1 Quad 2C
Discharge City:	Rosemead
Discharge State:	California
Discharge Zip:	91770
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

RECOVERY OXY HUNTINGTON BEACH (Continued) **S119086939**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	Recovery Oxy Huntington Beach Project
Address:	20101 GOLDENWEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Agency:	Southern California Edison
Agency Address:	2244 Walnut Grove Ave GO 1 Quad 2C, Rosemead, CA 91770
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW

RECOVERY OXY HUNTINGTON BEACH (Continued) **S119086939**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C377831
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/14/2016
Termination Date:	03/02/2018
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:	33.680615
Longitude:	-118.031208

A52 **AREA ENERGY LLC** **PFAS ECHO** **1031398782**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92646**

Site 52 of 60 in cluster A

Actual:
37 ft.

PFAS ECHO:

Facility ID:	110041469862
Name:	Area Energy Llc
Address:	20101 GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92646
Latitude:	33.674011
Longitude:	-118.011007
Count:	1
County:	ORANGE
Status:	Active
Region:	09
Industry:	Airports

ECHO Facility Report:

Facility Percent Minority:	32.734
Facility Derived Tribes:	-
Facility Population:	6687.78
EPA Programs:	CAA; RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06059
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18070201
Facility Derived WBD:	180702010001
Facility Derived CD113:	48
Facility Derived CB2010:	060590993091007
Facility Major Flag:	Y
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	7/10/2019
Facility Days Last Inspection:	2,082
Facility Informal Count:	0
Facility Date Last Informal Action:	9/29/2015

AREA ENERGY LLC (Continued) **1031398782**

Facility Formal Action Count:	0
Facility Date Last Formal Action:	4/28/2005
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	4/28/2005
Facility Last Penalty AMT:	4,500
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	CASCA0000605900025
CAA Permit Types:	Major Emissions
CAA NAICS:	211111
CAA SICS:	1311
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	CAD981443807
RCRA Permit Types:	SQG
RCRA NAICS:	211111
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

A53 **ERNS** **2000516084**
Target Property **20101 GOLDENWEST ST** **N/A**
HUNTINGTON BEACH, CA 92648

Site 53 of 60 in cluster A

Actual: 37 ft.

Incident Commons:

NRC Report #:	516084
Description of Incident:	LEAK IN A BELOW GROUND 4IN CRUDE OIL GATHERING LINE
Type of Incident:	PIPELINE
Incident Cause:	UNKNOWN
Incident Date Time:	2000-01-03 21:05:00
Incident DTG:	DISCOVERED
Incident Location:	UNINCORPORATED AREA OF ORANGE COUNTY
Loaction Address:	20101 GOLDENWEST ST
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	HUNTINGTON BEACH
Location State:	CA
Location County:	ORANGE

(Continued) **2000516084**

Location Zip:	92648
Distance From City:	0.5
Distance Units:	Not reported
Direction From City:	N
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

Year:	2000
NRC Report #:	516084
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	GATHERING
DOT Regulated:	N
Pipeline Above Ground:	BELOW
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported

(Continued) **2000516084**

Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	2000
NRC Report #:	516084
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported

(Continued) **2000516084**

Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	Not reported
Body of Water:	BOLSA CHICA WETLANDS
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	WELLS FEEDING LINE HAVE BEEN SHUT DOWN / CLEANUP WILL BEGIN AT FIRST LIGHT
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	M
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WETLAND AREA WAS DRY / 20FT X 20FT AREA AFFECTED

(Continued) **2000516084**

State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

Year:	2000
NRC Report #:	516084
Site ID:	2000516084
Date Time Received:	2000-01-04 00:49:29
Date Time Complete:	2000-01-04 00:58:10
Call Type:	INC
Responsible Company:	AERA ENERGY LLC
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	HUNTINGTON BEACH
Responsible State:	CA
Responsible Zip:	92648
On Behalf:	Y
Source:	UNAVAILABLE

Material Involved:

Year:	2000
NRC Report #:	516084
Chris Code:	OIL
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	0.5
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	OIL: CRUDE
If Reached Water:	YES
Amount in Water:	0.5
Unit of Measure Reach Water:	UNKNOWN AMOUNT

Year:	2000
NRC Report #:	516084
Chris Code:	NCC
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	0.5
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	PRODUCED WATER
If Reached Water:	YES
Amount in Water:	0.5
Unit of Measure Reach Water:	UNKNOWN AMOUNT

A54 **SHELL WESTERN E&P INC** **UST FINDER RELEASE** **1029106420**
Target **20101 GOLDEN WEST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 54 of 60 in cluster A

Actual: **37 ft.**

UST FINDER RELEASE:

Object ID:	65707
Facility ID:	Not reported
Lust ID:	CAT0605900704
Name:	SHELL WESTERN E&P INC
Address:	20101 GOLDEN WEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Address Match Type:	StreetAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	2036
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-118.01193
Y Coord:	33.6737800000001
Latitude:	33.67378
Longitude:	-118.01193

A55 **OXY USA INC HUNTINGTON BEACH** **HAZNET** **S123816205**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 55 of 60 in cluster A

Actual: **37 ft.**

HAZNET:

Name:	OXY USA INC HUNTINGTON BEACH
Address:	20101 GOLDENWEST ST
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 926482628
Contact:	KRISTY MONJI
Telephone:	5626243391
Mailing Name:	Not reported
Mailing Address:	111 W OCEAN BLVD STE 800

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Year: 2013
Gepaid: CAD981443807
TSD EPA ID: CAD980675276
CA Waste Code: 441 - Sulfur sludge
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 38.7688

Year: 2013
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.65

Year: 2012
Gepaid: CAD981443807
TSD EPA ID: CAD009007626
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.8

Year: 2012
Gepaid: CAD981443807
TSD EPA ID: CAD981696420
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.76

Year: 2012
Gepaid: CAD981443807
TSD EPA ID: CAD980675276
CA Waste Code: 441 - Sulfur sludge
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 32.0264

Year: 2012
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.375

Year: 2012
Gepaid: CAD981443807
TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.02

Year: 2012
Gepaid: CAD981443807

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1575

Year: 2011
Gepaid: CAD981443807
TSD EPA ID: ARD069748192
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.03336

Year: 2011
Gepaid: CAD981443807
TSD EPA ID: CAD980675276
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 215.7568

Click this hyperlink while viewing on your computer to access
197 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:
Year: 2013
Gen EPA ID: CAD981443807

Shipment Date: 20130910
Creation Date: 11/4/2013 22:15:04
Receipt Date: 20130911
Manifest ID: 006842635JJK
Trans EPA ID: CAD982030173
Trans Name: ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980675276
Trans Name: CLEAN HARBORS LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 441 - Sulfur sludge
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 8.428
Waste Quantity: 10
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130828
Creation Date: 10/18/2013 22:15:07
Receipt Date: 20130830

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Manifest ID:	010822135JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.65
Waste Quantity:	1300
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D018
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20130124
Creation Date:	4/19/2013 22:15:15
Receipt Date:	20130125
Manifest ID:	009934660JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	30.3408
Waste Quantity:	36
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2012
Gen EPA ID:	CAD981443807

Shipment Date:	20121113
Creation Date:	1/9/2013 22:15:34
Receipt Date:	20121116
Manifest ID:	004456469JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D018
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120731
Creation Date:	10/10/2012 22:15:20
Receipt Date:	20120810
Manifest ID:	008129445JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120731
Creation Date:	10/10/2012 22:15:20
Receipt Date:	20120810
Manifest ID:	008129445JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120731
Creation Date:	10/10/2012 22:15:20
Receipt Date:	20120810
Manifest ID:	008129445JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120731
Creation Date:	9/27/2012 22:15:12
Receipt Date:	20120810
Manifest ID:	000278564JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120731
Creation Date:	10/10/2012 22:15:20
Receipt Date:	20120810
Manifest ID:	008129445JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.045
Waste Quantity:	90
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120705
Creation Date:	10/15/2012 22:15:30
Receipt Date:	20120705
Manifest ID:	005689948FLE
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120705
Creation Date:	10/3/2012 22:15:09
Receipt Date:	20120707

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Manifest ID:	005689955FLE
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4
Waste Quantity:	1
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120518
Creation Date:	8/1/2012 22:15:18
Receipt Date:	20120518
Manifest ID:	009369472JJK
Trans EPA ID:	CAD982030173
Trans Name:	ECOLOGY CONTROL INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009007626
Trans Name:	AZUSA LAND RECLAMATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4
Waste Quantity:	1
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120213
Creation Date:	7/9/2012 8:18:44
Receipt Date:	20120214
Manifest ID:	008846289JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON SERVICES INT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2011
Gen EPA ID:	CAD981443807
Shipment Date:	20111031
Creation Date:	1/20/2012 20:31:22
Receipt Date:	20111031
Manifest ID:	008769086JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111031
Creation Date:	2/16/2012 20:30:13
Receipt Date:	20111101
Manifest ID:	007489469JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

RCRA Code:	D040
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	D039
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111031
Creation Date:	2/16/2012 20:30:13
Receipt Date:	20111101
Manifest ID:	007489469JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0132
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20111026
Creation Date:	1/6/2012 18:30:18
Receipt Date:	20111102
Manifest ID:	000679304FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	11.7992
Waste Quantity:	14
Quantity Unit:	Y
Additional Code 1:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110920
Creation Date:	12/20/2011 18:30:24
Receipt Date:	20110922
Manifest ID:	000679306FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	5.8996
Waste Quantity:	7
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110906
Creation Date:	12/9/2011 18:30:29
Receipt Date:	20110906
Manifest ID:	000679307FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110805
Creation Date:	2/15/2012 20:30:12

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Receipt Date:	20110817
Manifest ID:	007483320JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVCS
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0396
Waste Quantity:	12
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110805
Creation Date:	2/15/2012 20:30:12
Receipt Date:	20110817
Manifest ID:	007483320JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVCS
TSDF EPA ID:	ARD069748192
Trans Name:	CLEAN HARBORS EL DORADO LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20110630
Creation Date:	12/3/2012 22:16:17
Receipt Date:	Not reported
Manifest ID:	007489462JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	- Not reported
Quantity Tons:	0.0375
Waste Quantity:	75
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110630
Creation Date:	12/3/2012 22:16:17
Receipt Date:	Not reported
Manifest ID:	007489462JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	- Not reported
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2010
Gen EPA ID:	CAD981443807
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:26
Receipt Date:	20101209
Manifest ID:	003206538JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Quantity Tons:	1.0296
Waste Quantity:	312
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335366JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335366JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335365JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02085
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335365JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1155
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335365JJK
Trans EPA ID:	CAT000624247

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101208
Creation Date:	5/5/2011 18:30:32
Receipt Date:	20101209
Manifest ID:	002335365JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101201
Creation Date:	2/18/2011 18:30:08
Receipt Date:	20101201
Manifest ID:	003205902JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101123
Creation Date:	2/8/2011 18:30:37
Receipt Date:	20101129
Manifest ID:	000679466FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101008
Creation Date:	1/3/2011 18:30:39
Receipt Date:	20101008
Manifest ID:	000679474FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2009
Gen EPA ID:	CAD981443807
Shipment Date:	20091211
Creation Date:	3/5/2010 18:30:31
Receipt Date:	20091211
Manifest ID:	000679490FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	9/30/2010 18:30:56
Receipt Date:	20091111
Manifest ID:	002265576FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	9/30/2010 18:30:56
Receipt Date:	20091111
Manifest ID:	003013679FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091111
Creation Date:	9/30/2010 18:30:56
Receipt Date:	20091111
Manifest ID:	003013679FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	792 - Not reported
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	D002
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091023
Creation Date:	1/8/2010 18:30:49
Receipt Date:	20091023
Manifest ID:	003208401JJK

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090929
Creation Date:	12/8/2009 18:30:31
Receipt Date:	20090929
Manifest ID:	002335361JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1188
Waste Quantity:	36
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090911
Creation Date:	11/3/2009 18:30:29
Receipt Date:	20090911
Manifest ID:	000679493FLE
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090824
Creation Date:	3/5/2010 18:30:08
Receipt Date:	20090829
Manifest ID:	003013745FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVCS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090824
Creation Date:	3/5/2010 18:30:08
Receipt Date:	20090829
Manifest ID:	003013745FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVCS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	D040
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.0325
Waste Quantity:	65
Quantity Unit:	P
Additional Code 1:	D039

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090824
Creation Date:	3/5/2010 18:30:08
Receipt Date:	20090829
Manifest ID:	003013745FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENV SVCS
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2008
Gen EPA ID:	CAD981443807
Shipment Date:	20081204
Creation Date:	4/29/2009 18:30:08
Receipt Date:	20090106
Manifest ID:	002109415FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBOR
TSDF EPA ID:	TXD055141378
Trans Name:	CLEAN HARBORS DEER PARK LP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	D039
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Shipment Date:	20081204
Creation Date:	2/20/2009 18:30:31
Receipt Date:	20081204
Manifest ID:	002109416FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.14
Waste Quantity:	280
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081112
Creation Date:	1/15/2009 18:30:08
Receipt Date:	20081113
Manifest ID:	000679189FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20081027
Creation Date:	12/30/2008 18:30:19
Receipt Date:	20081028
Manifest ID:	000679187FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081020
Creation Date:	3/30/2010 16:13:44
Receipt Date:	20081020
Manifest ID:	000679185FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D040
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D039
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081007
Creation Date:	12/10/2008 18:30:25
Receipt Date:	20081008
Manifest ID:	000679184FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081001
Creation Date:	12/8/2008 18:30:08
Receipt Date:	20081002
Manifest ID:	003543062JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	10.425
Waste Quantity:	2500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080924
Creation Date:	11/18/2008 18:30:17
Receipt Date:	20080925
Manifest ID:	000679182FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080918
Creation Date:	11/17/2008 18:30:18
Receipt Date:	20080922
Manifest ID:	000679180FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080916
Creation Date:	11/3/2008 18:30:32
Receipt Date:	20080917
Manifest ID:	000679179FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2007
Gen EPA ID:	CAD981443807

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Shipment Date:	20071220
Creation Date:	3/8/2008 18:30:20
Receipt Date:	20071221
Manifest ID:	000678134FLE
Trans EPA ID:	CAD061605036
Trans Name:	THOMAS CRANE & TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071213
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071213
Manifest ID:	003543065JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071213
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071213
Manifest ID:	003543064JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON
Trans 2 EPA ID:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071213
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071213
Manifest ID:	003543066JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212
Manifest ID:	003543056JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212
Manifest ID:	003543055JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212
Manifest ID:	003543057JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEON & SON
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212
Manifest ID:	003543059JJK
Trans EPA ID:	CAR000159343
Trans Name:	KNIGHT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212
Manifest ID:	003543060JJK
Trans EPA ID:	CAR000159343
Trans Name:	KNIGHT ENTERPRISES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071212
Creation Date:	3/8/2008 18:30:06
Receipt Date:	20071212

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Manifest ID:	003543058JJK
Trans EPA ID:	CAD004778742
Trans Name:	STURGEN & SON
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2006
Gen EPA ID:	CAD981443807
Shipment Date:	20061218
Creation Date:	4/19/2007 18:32:11
Receipt Date:	20061229
Manifest ID:	000678041FLE
Trans EPA ID:	CAD061605036
Trans Name:	JOHN THOMAS TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061218
Creation Date:	4/19/2007 18:32:11
Receipt Date:	20061227
Manifest ID:	000678056FLE
Trans EPA ID:	CAD061605036
Trans Name:	JOHN THOMAS TRUCKING

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061218
Creation Date:	4/19/2007 18:32:11
Receipt Date:	20061227
Manifest ID:	000678042FLE
Trans EPA ID:	CAD061605036
Trans Name:	JOHN THOMAS TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061208
Creation Date:	3/30/2010 16:12:35
Receipt Date:	20070103
Manifest ID:	000678012FLE
Trans EPA ID:	CAR000149344
Trans Name:	SOCAL SHIP SERVICES
Trans 2 EPA ID:	CAD061605036
Trans 2 Name:	THOMAS CRANE & TRUCKING
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	11.7992
Waste Quantity:	14
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061206
Creation Date:	4/19/2007 18:31:14
Receipt Date:	20061206
Manifest ID:	000985656JJK
Trans EPA ID:	CAT000624247
Trans Name:	MP ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS -BUTTONWILLOW
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	2
Waste Quantity:	5
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061206
Creation Date:	4/19/2007 18:31:46
Receipt Date:	20061212
Manifest ID:	000678040FLE
Trans EPA ID:	CAD061605036
Trans Name:	JOHN THOMAS TRUCKING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061128
Creation Date:	3/6/2008 18:30:06
Receipt Date:	20071128
Manifest ID:	003543106JJK
Trans EPA ID:	CAR000159343
Trans Name:	KNIGHT
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS ENVIRONMENTAL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061116
Creation Date:	3/30/2010 16:12:19
Receipt Date:	20061201
Manifest ID:	000678011FLE
Trans EPA ID:	CAR000149344
Trans Name:	SOCAL SHIP SERVICES
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	UTD981552177
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061103
Creation Date:	7/6/2007 18:30:05

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Receipt Date:	20061114
Manifest ID:	000583376FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20061103
Creation Date:	7/6/2007 18:30:05
Receipt Date:	20061114
Manifest ID:	000583376FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.045
Waste Quantity:	90
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2005
Gen EPA ID:	CAD981443807

Shipment Date:	20051222
Creation Date:	6/22/2006 18:32:03
Receipt Date:	20051227
Manifest ID:	23627174
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051216
Creation Date:	3/22/2006 18:32:18
Receipt Date:	20051216
Manifest ID:	24753801
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051216
Creation Date:	3/22/2006 18:32:18
Receipt Date:	20051216
Manifest ID:	24753802
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	441 - Sulfur sludge
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	21.07

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Waste Quantity:	25
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051215
Creation Date:	3/16/2006 18:30:37
Receipt Date:	20051223
Manifest ID:	25149946
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051215
Creation Date:	3/16/2006 18:30:37
Receipt Date:	20051223
Manifest ID:	25149946
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051215

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Creation Date:	3/16/2006 18:30:37
Receipt Date:	20051223
Manifest ID:	25149946
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051205
Creation Date:	3/16/2006 18:30:37
Receipt Date:	20051205
Manifest ID:	25149755
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051102
Creation Date:	1/2/2007 18:30:20
Receipt Date:	20051110
Manifest ID:	24131394
Trans EPA ID:	CAD082699562
Trans Name:	NRC ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051102
Creation Date:	1/2/2007 18:30:20
Receipt Date:	20051110
Manifest ID:	24131394
Trans EPA ID:	CAD082699562
Trans Name:	NRC ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.11
Waste Quantity:	220
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051026
Creation Date:	7/12/2006 18:31:35
Receipt Date:	20051026
Manifest ID:	24678037
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Information:
Year: 2004
Gen EPA ID: CAD981443807

Shipment Date: 20041214
Creation Date: 3/17/2005 18:34:39
Receipt Date: 20041214
Manifest ID: 20713282
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980675276
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID: CAD980675276
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 16.856
Waste Quantity: 20
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20041208
Creation Date: 3/16/2005 18:31:03
Receipt Date: 20041210
Manifest ID: 20713278
Trans EPA ID: MAD039322250
Trans Name: CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980675276
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID: CAD980675276
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 16.856
Waste Quantity: 20
Quantity Unit: Y
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Shipment Date:	20041208
Creation Date:	3/16/2005 18:31:03
Receipt Date:	20041210
Manifest ID:	20713279
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041207
Creation Date:	3/16/2005 18:31:03
Receipt Date:	20041213
Manifest ID:	23458640
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.02
Waste Quantity:	40
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041207
Creation Date:	3/16/2005 18:31:03
Receipt Date:	20041213
Manifest ID:	23458640
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041207
Creation Date:	3/16/2005 18:31:03
Receipt Date:	20041213
Manifest ID:	23458640
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	UTD988074712
Trans 2 Name:	TW COMPANY
TSDF EPA ID:	UTD981552177
Trans Name:	CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.033
Waste Quantity:	66
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041202
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041202
Manifest ID:	20713274
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041202
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041202
Manifest ID:	20713272
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	4.214
Waste Quantity:	5
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041108
Creation Date:	1/28/2005 18:31:06
Receipt Date:	20041108
Manifest ID:	23456954
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENV SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041018
Creation Date:	1/11/2005 18:30:51
Receipt Date:	20041018

OXY USA INC HUNTINGTON BEACH (Continued) **S123816205**

Manifest ID:	23627032
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	12.642
Waste Quantity:	15
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

A56 **SHELL WESTERN E & P INC** **FTTS** **1010009679**
Target **20101 GOLDENWEST ST** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 56 of 60 in cluster A

Actual:
37 ft.

FTTS INSP:

Inspection Number:	19890315CA001 3
Region:	09
Inspection Date:	03/15/89
Inspector:	BERMAN
Violation occurred:	Yes
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

A57 **SO CAL HOLDING, LLC** **FINDS** **1018326931**
Target **20101 GOLDENWEST ST** **ECHO** **N/A**
Property **HUNTINGTON BEACH, CA 92648**

Site 57 of 60 in cluster A

Actual:
37 ft.

FINDS:

Registry ID: 110041469862

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The National Compliance Database (NCDB) supports implementation of the
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the
Toxic Substances Control Act (TSCA).
THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE
STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR
POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES

SO CAL HOLDING, LLC (Continued) **1018326931**

AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES
The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).
California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Registry ID: 110071387016

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Registry ID: 110071778887

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

Registry ID: 110071791774

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
THE EMISSION INVENTORY SYSTEM (EIS) MAINTAINS AN INVENTORY OF LARGE STATIONARY SOURCES AND VOLUNTARILY-REPORTED SMALLER SOURCES OF AIR POINT POLLUTANT EMITTERS. IT CONTAINS INFORMATION ABOUT FACILITY SITES AND THEIR PHYSICAL LOCATION, EMISSIONS UNITS, EMISSIONS PROCESSES, RELEASE POINTS, CONTROL APPROACHES, AND REGULATIONS. FACILITY INVENTORY DATA ARE KEPT SEPARATE FROM THE EMISSIONS DATA AND HAVE STABLE IDENTIFIERS TO IMPROVE CONTINUITY FROM YEAR TO YEAR AND TO HELP IDENTIFY DUPLICATE OR MISSING FACILITIES

SO CAL HOLDING, LLC (Continued) **1018326931**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1018326931
Registry ID: 110041469862

DFR URL:
Name: AREA ENERGY LLC
Address: 20101 Goldenwest St
City,State,Zip: HUNTINGTON BEACH, CA 92646

B58 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662094**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903098
Confidential Well:	No
Well Number:	549A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67877
Longitude:	-118.0300
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B59 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662093**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903096
Confidential Well:	No
Well Number:	539
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67871
Longitude:	-118.0300
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C60 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662410**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921036
Confidential Well:	No
Well Number:	CJ-286
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67502
Longitude:	-118.0257
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662410**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B61 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662341**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 15 in cluster B

Relative:
Higher

Actual:
39 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907905
Confidential Well:	No
Well Number:	15
Direction:	N
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67878
Longitude:	-118.0292
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

B62 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662087**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903070

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662087**

Confidential Well:	No
Well Number:	506A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67880
Longitude:	-118.0302
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B63 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662095**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 5 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903099
Confidential Well:	No
Well Number:	551 A
Direction:	N
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67912
Longitude:	-118.0306
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C64 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662377**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 2 of 13 in cluster C

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920732
Confidential Well:	No
Well Number:	UJ-256
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67515
Longitude:	-118.0260
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C65 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662044**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 3 of 13 in cluster C

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902833
Confidential Well:	No
Well Number:	UJ-53D
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67518
Longitude:	-118.0258
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662044**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C66 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662049**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902870
Confidential Well:	No
Well Number:	CJ-78
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67504
Longitude:	-118.0258
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B67 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662342**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907906

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662342**

Confidential Well:	No
Well Number:	16
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67878
Longitude:	-118.0298
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

C68 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662006**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 5 of 13 in cluster C

Relative: **Higher**
Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405900930
Confidential Well:	No
Well Number:	UJ-73B
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67509
Longitude:	-118.0259
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

D69 **CHEVRON U.S.A. INC.** **UIC** **S125662338**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 1 of 2 in cluster D

Relative: UIC:
Higher

Actual:
39 ft.

Name:	CHEVRON U.S.A. INC.
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907902
Confidential Well:	No
Well Number:	WS-9
Direction:	N
Lease Name:	Lease by Chevron U.S.A. Inc.
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	hud
Latitude:	33.67827
Longitude:	-118.0281
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

E70 **CHEVRON U.S.A. INC.** **UIC** **S125662336**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 1 of 4 in cluster E

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CHEVRON U.S.A. INC.
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907899
Confidential Well:	No
Well Number:	WS-4
Direction:	N
Lease Name:	Lease by Chevron U.S.A. Inc.
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	hud
Latitude:	33.67610
Longitude:	-118.0251
Well Type:	Water Disposal

CHEVRON U.S.A. INC. (Continued) **S125662336**

Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

B71 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662096**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 15 in cluster B

Relative:
Higher

Actual:
39 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903100
Confidential Well:	No
Well Number:	S-163
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67826
Longitude:	-118.0296
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

F72 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662071**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 6 in cluster F

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903000

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662071**

Confidential Well:	No
Well Number:	S-87A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67617
Longitude:	-118.0270
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B73 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662086**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 8 of 15 in cluster B

Relative: **Higher**

Actual: **38 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903066
Confidential Well:	No
Well Number:	502A
Direction:	N
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67815
Longitude:	-118.0295
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B74 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662073**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 9 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903011
Confidential Well:	No
Well Number:	S-98
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67845
Longitude:	-118.0297
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B75 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662097**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 10 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903106
Confidential Well:	No
Well Number:	558A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67858
Longitude:	-118.0300
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662097**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B76 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662098**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 11 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903107
Confidential Well:	No
Well Number:	559A
Direction:	N
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67864
Longitude:	-118.0300
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B77 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587184**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 12 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903082

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S128587184**

Confidential Well:	No
Well Number:	518
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67855
Longitude:	-118.0298
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

D78 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662340**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 2 of 2 in cluster D

Relative: **Higher**
Actual: **38 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907904
Confidential Well:	No
Well Number:	13
Direction:	N
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67848
Longitude:	-118.0289
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

F79 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662100**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 6 in cluster F

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903128
Confidential Well:	No
Well Number:	583A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67578
Longitude:	-118.0267
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

B80 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587182**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 13 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902783
Confidential Well:	No
Well Number:	C-8
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67915
Longitude:	-118.0305
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S128587182**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

G81 **BOLSA CHICA LOWLANDS RESTORATION PROJ** **NPDES S117696002**
19499 SEAPOINT AVE **CIWQS N/A**
< 1/8 **HUNTINGTON BEACH, CA 92647**
1 ft.

Site 1 of 11 in cluster G

Relative: Higher
Actual: 41 ft.

NPDES:

Name:	BOLSA CHICA LOWLANDS RESTORATION PROJ
Address:	19499 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92647
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C330678
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/27/2006
Operator Name:	USDI Fish & Wildlife Service
Operator Address:	6010 Hidden Valley Rd
Operator City:	Carlsbad
Operator State:	California
Operator Zip:	92009

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	208088
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C330678
Program Type:	Not reported

BOLSA CHICA LOWLANDS RESTORATION PROJ (Continued) **S117696002**

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:	10/28/2004
Status:	Terminated
Status Date:	10/27/2006
Place Size:	366
Place Size Unit:	Acres
Contact:	LONNIE McDonald
Contact Title:	Not reported
Contact Phone:	7143743796
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	USDI Fish & Wildlife Service
Operator Address:	6010 Hidden Valley Rd
Operator City:	Carlsbad
Operator State:	California
Operator Zip:	92009
Operator Contact:	JACK Fancher
Operator Contact Title:	Bolsa Chica Project Mgr
Operator Contact Phone:	760-431-9440
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Federal Agency
Developer:	Kiewit Pacific Co
Developer Address:	7451 Warner Ave Ste E106
Developer City:	Huntington Beach
Developer State:	California
Developer Zip:	92647
Developer Contact:	Adam Zagorski
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-374-3796
Emergency Phone Ext:	215
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Y
Constype Recons Ind:	Y
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Y
Constype Water Sewer Ind:	Not reported

BOLSA CHICA LOWLANDS RESTORATION PROJ (Continued) **S117696002**

Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Inner Bolsa Bay
Certifier:	Adam Zagorski
Certifier Title:	P M
Certification Date:	18-OCT-04
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	Bolsa Chica Lowlands Restoration Proj
Address:	19499 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92647
Agency:	USDI Fish & Wildlife Service
Agency Address:	6010 Hidden Valley Rd, Carlsbad, CA 92009
Place/Project Type:	Construction - Other, Utility, Reconstruction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C330678
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/28/2004
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:	Not reported
Longitude:	Not reported

C82 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S131940511**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921760
Confidential Well:	No
Well Number:	751I
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S131940511**

Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	33.67546
Longitude:	-118.0259
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

G83 **HARRIETT WEIDER REGIONAL PARK** **CERS** **S128626428**
19251 SEAPOINT AVE **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 2 of 11 in cluster G

Relative: CERS:
Higher

Name:	HARRIETT WEIDER REGIONAL PARK
Address:	19251 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	890128
CERS ID:	T10000017841
CERS Description:	Cleanup Program Site

Actual:
41 ft.

G84 **HARRIETT M WIEDER REG PK PH 1A** **CIWQS** **S121643123**
19251 SEAPOINT AVE **N/A**
< 1/8 **HUNTINGTON BEACH, CA**
1 ft.

Site 3 of 11 in cluster G

Relative: CIWQS:
Higher

Name:	Harriett M Wieder Reg Pk Ph 1a
Address:	19251 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA
Agency:	Orange County Public Works
Agency Address:	1152 E Fruit St, Santa Ana, CA 92701
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C320887
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	04/04/2003
Termination Date:	03/23/2004
Expiration/Review Date:	Not reported
Design Flow:	Not reported

Actual:
41 ft.

HARRIETT M WIEDER REG PK PH 1A (Continued) **S121643123**

Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

G85 **HARRIETT WEIDER REGIONAL PARK** **CPS-SLIC** **S121183433**
19251 SEAPOINT AVE **Orange Co. Ind Site** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 4 of 11 in cluster G

Relative: **Higher**
Actual: **41 ft.**

CPS-SLIC:

Name:	HARRIETT WEIDER REGIONAL PARK
Address:	19251 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/22/2005
Global Id:	T10000017841
Lead Agency:	ORANGE COUNTY LOP
Lead Agency Case Number:	03IC019
Latitude:	33.6850473
Longitude:	-118.0224169
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	06/22/2005
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	06/22/2005
CA Water Watershed Name:	Not reported
Dwr Groundwater Subbasin Name:	Not reported
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	1-5% (lowest scores)
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Please refer to recent Site Documents or Monitoring Reports for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by

HARRIETT WEIDER REGIONAL PARK (Continued) **S121183433**

consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

Orange Co. Ind Site:

Name:	HARRIETT WEIDER REGIONAL PARK
Address:	19251 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Case ID:	03IC019
Record ID:	RO0003231
Current Status:	CLOSED
Closure Type:	Voluntary Cleanup Program Termination
Released Chemical:	ARSENIC
Closed Date:	6/22/2005
File Location:	Not reported

G86 **BOLSA CHICA LOWLANDS RESTORATION** **NPDES S117696003**
19499 SEAPOINT AVE **CIWQS N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 5 of 11 in cluster G

Relative: Higher
Actual: 41 ft.

NPDES:

Name:	BOLSA CHICA LOWLANDS RESTORATION
Address:	19499 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C333709
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/27/2006
Operator Name:	USDI Fish & Wildlife Service
Operator Address:	6010 Hidden Valley Rd
Operator City:	Carlsbad
Operator State:	California
Operator Zip:	92009

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8

BOLSA CHICA LOWLANDS RESTORATION (Continued) **S117696003**

Regulatory Measure ID:	284424
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C333709
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/15/2005
Status:	Terminated
Status Date:	10/27/2006
Place Size:	13
Place Size Unit:	Acres
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	USDI Fish & Wildlife Service
Operator Address:	6010 Hidden Valley Rd
Operator City:	Carlsbad
Operator State:	California
Operator Zip:	92009
Operator Contact:	JACK Fancher
Operator Contact Title:	Coastal Program Coordinator
Operator Contact Phone:	760-431-9440
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Federal Agency
Developer:	Kiewit Pacific Co
Developer Address:	7451 Warner Ave
Developer City:	Huntington Beach
Developer State:	California
Developer Zip:	92647
Developer Contact:	Justin Daniel
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported

BOLSA CHICA LOWLANDS RESTORATION (Continued) **S117696003**

Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Y
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:	Inner Bolsa Bay
Certifier:	Justin Daniel
Certifier Title:	Project Engineer
Certification Date:	19-MAR-05
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	BOLSA CHICA LOWLANDS RESTORATION
Address:	19499 SEAPOINT AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C330926
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/27/2006
Operator Name:	Ca Dept of Transportation District 8
Operator Address:	464 W 4th St
Operator City:	San Bernardino
Operator State:	California
Operator Zip:	92401

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	208103
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C330926
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

BOLSA CHICA LOWLANDS RESTORATION (Continued) **S117696003**

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:	11/12/2004
Status:	Terminated
Status Date:	10/27/2006
Place Size:	13
Place Size Unit:	Acres
Contact:	JUSTIN Daniel
Contact Title:	Not reported
Contact Phone:	7145801338
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Ca Dept of Transportation District 8
Operator Address:	464 W 4th St
Operator City:	San Bernardino
Operator State:	California
Operator Zip:	92401
Operator Contact:	Adil Mujtaba
Operator Contact Title:	Designer
Operator Contact Phone:	949-440-4492
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	State Agency
Developer:	Kiewit Pacific Co
Developer Address:	7451 Warner Ave Ste E106
Developer City:	Huntington Beach
Developer State:	California
Developer Zip:	92647
Developer Contact:	Justin Daniel
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-580-1338
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Y
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Y
Constype Utility Description:	Not reported
Constype Utility Ind:	Y
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported

BOLSA CHICA LOWLANDS RESTORATION (Continued) **S117696003**

Receiving Water Name: Inner Bolsa Bay
Certifier: Justin Daniel
Certifier Title: Field Engr
Certification Date: 01-NOV-04
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

CIWQS:
Name: Bolsa Chica Lowlands Restoration
Address: 19499 SEAPOINT AVE
City,State,Zip: HUNTINGTON BEACH, CA 92648
Agency: USDI Fish & Wildlife Service
Agency Address: 6010 Hidden Valley Rd, Carlsbad, CA 92009
Place/Project Type: Construction - Transportation
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 30C333709
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 04/15/2005
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: Not reported
Longitude: Not reported

Name: Bolsa Chica Lowlands Restoration
Address: 19499 SEAPOINT AVE
City,State,Zip: HUNTINGTON BEACH, CA 92648
Agency: Ca Dept of Transportation District 8
Agency Address: 464 W 4th St, San Bernardino, CA 92401
Place/Project Type: Construction - Other, Utility, Transportation
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 30C330926
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 11/12/2004
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported

BOLSA CHICA LOWLANDS RESTORATION (Continued) **S117696003**

Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.682949
Longitude:	-118.025306

G87 **KEWIT PACIFIC** **HWTS** **S112941273**
19499 SEAPOINT AVE **HAZNET** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 6 of 11 in cluster G

Relative: Higher

Actual: 41 ft.

HWTS:

Name:	KEWIT PACIFIC
Address:	19499 SEAPOINT AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC002583494
Inactive Date:	06/21/2005
Create Date:	10/28/2004
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7451 WARNER AVE STE E-106
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92647
Owner Name:	KIWIT PACIFIC
Owner Address:	7451 WARNER AVE STE E-106
Owner Address 2:	Not reported
Owner City,State,Zip:	HUNTINGTON BEACH, CA 92647
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	STEVE CLEN
Contact Address:	7451 WARNER AVE STE E-106
Contact Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92647
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.682953
Longitude:	-118.025294

HAZNET:

Name:	KEWIT PACIFIC
Address:	19499 SEAPOINT AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact:	STEVE CLEN
Telephone:	7144657961
Mailing Name:	Not reported
Mailing Address:	7451 WARNER AVE STE E-106
Year:	2005
Gepaid:	CAC002583494
TSD EPA ID:	CAD028409019

KEWIT PACIFIC (Continued) **S112941273**

CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 0.125

Year: 2005
Gepaid: CAC002583494
TSD EPA ID: CAD981696420
CA Waste Code: 352 - Other organic solids
Disposal Method: -
Tons: 1.45

Year: 2005
Gepaid: CAC002583494
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H01 - Transfer Station
Tons: 0.15

Year: 2005
Gepaid: CAC002583494
TSD EPA ID: CAD028409019
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H01 - Transfer Station
Tons: 0.1668

Additional Information:
Year: 2005
Gen EPA ID: CAC002583494

Shipment Date: 20051214
Creation Date: 3/22/2006 18:32:45
Receipt Date: 20051220
Manifest ID: 23800432
Trans EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SVCS
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20051012
Creation Date: 3/12/2006 18:31:42
Receipt Date: 20051014

KEWIT PACIFIC (Continued) **S112941273**

Manifest ID:	24342753
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051012
Creation Date:	5/24/2006 18:31:13
Receipt Date:	20051014
Manifest ID:	24337127
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050816
Creation Date:	4/13/2006 18:46:51
Receipt Date:	20050817
Manifest ID:	24342593
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported

KEWIT PACIFIC (Continued) **S112941273**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050620
Creation Date:	10/27/2005 10:09:28
Receipt Date:	20050620
Manifest ID:	24387945
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050504
Creation Date:	8/17/2005 18:31:07
Receipt Date:	20050504
Manifest ID:	24387956
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

KEWIT PACIFIC (Continued) **S112941273**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050330
Creation Date:	7/21/2005 18:31:13
Receipt Date:	20050330
Manifest ID:	24387865
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050202
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050209
Manifest ID:	23487168
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERV
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050202
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050209
Manifest ID:	23487168
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERV

KEWIT PACIFIC (Continued) **S112941273**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

G88 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662074**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 11 in cluster G

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903019
Confidential Well:	No
Well Number:	S-106A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67985
Longitude:	-118.0313
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

G89 **FISH & WILDLIFE** **HWTS** **S124581830**
19499 SEAPOINT AVE **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 8 of 11 in cluster G

Relative: HWTS:
Higher

Name:	FISH & WILDLIFE
Address:	19499 SEAPOINT AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC002584677
Inactive Date:	06/21/2005
Create Date:	12/03/2004
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	6010 HIDDEN VALLY RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CARLSBAD, CA 92009
Owner Name:	FISH & WILDLIFE
Owner Address:	6010 HIDDEN VALLY RD
Owner Address 2:	Not reported
Owner City,State,Zip:	CARLSBAD, CA 92009
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	JACK FANCHER
Contact Address:	6010 HIDDEN VALLY RD
Contact Address 2:	Not reported
City,State,Zip:	CARLSBAD, CA 92009
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.682953
Longitude:	-118.025294

Actual:
41 ft.

G90 **ROSS ISLAND SAND & GRAVEL CO** **HWTS** **S112951751**
19499 SEAPOINT ST **HAZNET** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 9 of 11 in cluster G

Relative: HWTS:
Higher

Name:	ROSS ISLAND SAND & GRAVEL CO
Address:	19499 SEAPOINT ST
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC002600878
Inactive Date:	08/29/2006
Create Date:	03/01/2006
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 82249
Mailing Address 2:	Not reported
Mailing City,State,Zip:	PORTLAND, OR 972820249
Owner Name:	ROSS ISLAND SAND & GRAVEL CO
Owner Address:	PO BOX 82249
Owner Address 2:	Not reported
Owner City,State,Zip:	PORTLAND, OR 972820249

Actual:
41 ft.

ROSS ISLAND SAND & GRAVEL CO (Continued) **S112951751**

Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	RANDALL STEED
Contact Address:	PO BOX 82249
Contact Address 2:	Not reported
City,State,Zip:	PORTLAND, OR 972820249
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.682954
Longitude:	-118.025291

HAZNET:

Name:	ROSS ISLAND SAND & GRAVEL CO
Address:	19499 SEAPOINT ST
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 926487528
Contact:	RANDALL STEED
Telephone:	5033143348
Mailing Name:	Not reported
Mailing Address:	PO BOX 82249
Year:	2006
Gepaid:	CAC002600878
TSD EPA ID:	CAD981696420
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H01 - Transfer Station
Tons:	3.04

Additional Information:

Year:	2006
Gen EPA ID:	CAC002600878
Shipment Date:	20060717
Creation Date:	9/27/2006 18:33:49
Receipt Date:	20060718
Manifest ID:	24965203
Trans EPA ID:	CAL000027718
Trans Name:	JIM KNIGHT DRAIN OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERV
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	3.04
Waste Quantity:	800
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

ROSS ISLAND SAND & GRAVEL CO (Continued) **S112951751**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

G91 **KIEWIT PACIFIC** **HWTS** **S112952518**
19499 SEAPOINT AVE **HAZNET** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 10 of 11 in cluster G

Relative: Higher
Actual: 41 ft.

HWTS:

Name:	KIEWIT PACIFIC
Address:	19499 SEAPOINT AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC002602119
Inactive Date:	10/02/2006
Create Date:	04/04/2006
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7451 WARNER AVE STE E-106
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92647
Owner Name:	KIEWIT PACIFIC
Owner Address:	7451 WARNER AVE STE E-106
Owner Address 2:	Not reported
Owner City,State,Zip:	HUNTINGTON BEACH, CA 92647
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	PETE MORKERT
Contact Address:	7451 WARNER AVE STE E-106
Contact Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92647
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.682954
Longitude:	-118.025291

HAZNET:

Name:	KIEWIT PACIFIC
Address:	19499 SEAPOINT AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact:	PETE MORKERT
Telephone:	7145801489
Mailing Name:	Not reported
Mailing Address:	7451 WARNER AVE STE E-106
Year:	2006
Gepaid:	CAC002602119
TSD EPA ID:	CAD981696420
CA Waste Code:	352 - Other organic solids
Disposal Method:	-
Tons:	1

KIEWIT PACIFIC (Continued) **S112952518**

Year:	2006
Gepaid:	CAC002602119
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Year:	2006
Gepaid:	CAC002602119
TSD EPA ID:	CAD981696420
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	-
Tons:	Not reported

Additional Information:

Year:	2006
Gen EPA ID:	CAC002602119
Shipment Date:	20061026
Creation Date:	3/30/2007 13:31:59
Receipt Date:	20061026
Manifest ID:	001454416JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENV SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061026
Creation Date:	3/30/2007 13:31:59
Receipt Date:	20061026
Manifest ID:	001454416JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENV SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

KIEWIT PACIFIC (Continued) **S112952518**

Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	50
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060918
Creation Date:	3/30/2007 13:31:40
Receipt Date:	20060925
Manifest ID:	001464688JJK
Trans EPA ID:	CAD982413262
Trans Name:	ENERGREEN ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060710
Creation Date:	9/17/2006 18:31:37
Receipt Date:	20060713
Manifest ID:	25268975
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SOUTH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

KIEWIT PACIFIC (Continued) **S112952518**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060510
Creation Date:	8/25/2006 18:30:24
Receipt Date:	20060515
Manifest ID:	24901706
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SOUTH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060413
Creation Date:	8/25/2006 18:30:24
Receipt Date:	20060417
Manifest ID:	24728409
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

B92 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587181**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 14 of 15 in cluster B

Relative: UIC:
Higher

Actual: Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
41 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405902780
Confidential Well: No
Well Number: C-5
Direction: Y
Lease Name: State Prc 392
Field Name: Huntington Beach
Area Name: Offshore
Section: 04
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: GPS
Latitude: 33.67931
Longitude: -118.0307
Well Type: Water Flood
Well Status: Plugged
Operator Code: C0885
Operator Name: California Resources Production Corporation
BLM Well: Not reported
EPA Well: Not reported
Location: Not reported
Dryhole: Not reported
Well DEP: Not reported
Aband Status: Not reported

C93 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662468**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 7 of 13 in cluster C

Relative: UIC:
Higher

Actual: Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
37 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405921762
Confidential Well: No
Well Number: 754 I
Direction: Y
Lease Name: State Prc 425
Field Name: Huntington Beach
Area Name: South Offshore
Section: 04
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: Notice of Intent to Drill
Latitude: 33.67536
Longitude: -118.0258
Well Type: Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662468**

Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C94 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662043**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 8 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902829
Confidential Well:	No
Well Number:	J-47B
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67534
Longitude:	-118.0260
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C95 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662467**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 9 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921757

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662467**

Confidential Well:	No
Well Number:	750I
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	33.67531
Longitude:	-118.0257
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C96 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662068**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 10 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902980
Confidential Well:	No
Well Number:	S-67B
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67560
Longitude:	-118.0263
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

H97 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662076**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 3 in cluster H

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903024
Confidential Well:	No
Well Number:	S-111
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67936
Longitude:	-118.0307
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

H98 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662090**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 3 in cluster H

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903084
Confidential Well:	No
Well Number:	520A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67950
Longitude:	-118.0310
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662090**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

G99 **19251 SEAPOINT ST** **CIWQS** **S121614109**
19251 SEAPOINT ST **N/A**
< 1/8 **HUNTINGTON BEACH, CA**
1 ft.

Site 11 of 11 in cluster G

Relative: Higher
Actual: 41 ft.

CIWQS:

Name:	19251 Seapoint St
Address:	19251 SEAPOINT ST
City,State,Zip:	HUNTINGTON BEACH, CA
Agency:	Signal Landmark
Agency Address:	6 Executive Cir Ste 250, Irvine, CA 92614
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C308525
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	02/13/1998
Termination Date:	10/31/2001
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:	Not reported
Longitude:	Not reported

H100 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662075**
N/A
< 1/8 **ORANGE (County), CA**
1 ft.

Site 3 of 3 in cluster H

Relative: Higher
Actual: 41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903023
Confidential Well:	No

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662075**

Well Number:	S-110A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67942
Longitude:	-118.0308
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

E101 **CHEVRON U.S.A. INC.** **UIC** **S125662335**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 4 in cluster E

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CHEVRON U.S.A. INC.
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907898
Confidential Well:	No
Well Number:	WS-3
Direction:	N
Lease Name:	Lease by Chevron U.S.A. Inc.
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	hud
Latitude:	33.67540
Longitude:	-118.0247
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

B102 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662343**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 15 of 15 in cluster B

Relative:
Higher

Actual:
41 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907907
Confidential Well:	No
Well Number:	24
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67937
Longitude:	-118.0305
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

I103 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662032**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 7 in cluster I

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902788
Confidential Well:	No
Well Number:	C-19
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67747
Longitude:	-118.0287
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662032**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

E104 **CHEVRON U.S.A. INC.** **UIC** **S125662142**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 4 in cluster E

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CHEVRON U.S.A. INC.
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903526
Confidential Well:	No
Well Number:	39
Direction:	N
Lease Name:	Huntington B
Field Name:	Huntington Beach
Area Name:	South Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	hud
Latitude:	33.67620
Longitude:	-118.0242
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

I105 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662066**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 7 in cluster I

Relative:
Higher

Actual:
38 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902969

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662066**

Confidential Well:	No
Well Number:	S-56A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67739
Longitude:	-118.0284
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

F106 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662050**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 6 in cluster F

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902874
Confidential Well:	No
Well Number:	J-104
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67619
Longitude:	-118.0272
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C107 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S126254953**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 11 of 13 in cluster C

Relative: UIC:
Higher

Actual: Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
37 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405903085
Confidential Well: No
Well Number: S-162
Direction: Y
Lease Name: State Prc 392
Field Name: Huntington Beach
Area Name: South Offshore
Section: 04
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: GPS
Latitude: 33.67463
Longitude: -118.0252
Well Type: Water Flood
Well Status: Idle
Operator Code: C0885
Operator Name: California Resources Production Corporation
BLM Well: Not reported
EPA Well: Not reported
Location: Not reported
Dryhole: Not reported
Well DEP: Not reported
Aband Status: Not reported

J108 **CHEVRON U.S.A. INC.** **UIC** **S125662337**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 1 of 2 in cluster J

Relative: UIC:
Higher

Actual: Name: CHEVRON U.S.A. INC.
38 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405907901
Confidential Well: No
Well Number: WS-6
Direction: N
Lease Name: Lease by Chevron U.S.A. Inc.
Field Name: Huntington Beach
Area Name: Onshore
Section: 04
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: hud
Latitude: 33.67774
Longitude: -118.0263
Well Type: Water Disposal

CHEVRON U.S.A. INC. (Continued) **S125662337**

Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

I109 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662339**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 7 in cluster I

Relative:
Higher

Actual:
38 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907903
Confidential Well:	No
Well Number:	E
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67749
Longitude:	-118.0284
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

I110 **CHEVRON U.S.A. INC.** **UIC** **S125662092**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 7 in cluster I

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CHEVRON U.S.A. INC.
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903088

CHEVRON U.S.A. INC. (Continued) **S125662092**

Confidential Well:	No
Well Number:	7
Direction:	N
Lease Name:	Huntington C
Field Name:	Huntington Beach
Area Name:	South Onshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Unknown
Latitude:	33.67736
Longitude:	-118.0286
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C5640
Operator Name:	Chevron U.S.A. Inc.
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

F111 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662411**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 4 of 6 in cluster F

Relative: **Higher**
Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921049
Confidential Well:	No
Well Number:	UJ-272
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67620
Longitude:	-118.0272
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

I112 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662072**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 5 of 7 in cluster I

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903008
Confidential Well:	No
Well Number:	S-95A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67721
Longitude:	-118.0284
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

I113 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662033**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 7 in cluster I

Relative:
Higher

Actual:
38 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902792
Confidential Well:	No
Well Number:	C-23
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67702
Longitude:	-118.0280
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662033**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

F114 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662101**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 5 of 6 in cluster F

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903139
Confidential Well:	No
Well Number:	CJ-159
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67651
Longitude:	-118.0276
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

I115 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125664550**
N/A

< 1/8
1 ft.

ORANGE OFFSHORE (County), CA

Site 7 of 7 in cluster I

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0425903088

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125664550**

Confidential Well:	No
Well Number:	525A
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67736
Longitude:	-118.0286
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

C116 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662379**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 12 of 13 in cluster C

Relative: **Higher**

Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920778
Confidential Well:	No
Well Number:	UJ-263
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67464
Longitude:	-118.0252
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

C117 **ENSIGN USD - RIG 550** **HWTS** **S124661193**
LAT/LONG_USED **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 13 of 13 in cluster C

Relative:
Higher

Actual:
37 ft.

HWTS:

Name:	ENSIGN USD - RIG 550
Address:	LAT/LONG_USED
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC002940533
Inactive Date:	03/16/2018
Create Date:	12/14/2017
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7001 CHARITY AVE.
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BAKERSFIELD, CA 93308
Owner Name:	ENSIGN USD
Owner Address:	7001 CHARITY AVE.
Owner Address 2:	Not reported
Owner City,State,Zip:	BAKERSFIELD, CA 93308
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	DEEANN BEAHM
Contact Address:	7001 CHARITY AVE.
Contact Address 2:	Not reported
City,State,Zip:	BAKERSFIELD, CA 93308
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	33.674664
Longitude:	-118.025019

NAICS:

EPA ID:	CAC002940533
Create Date:	2017-12-14 16:13:52.210
NAICS Code:	213111
NAICS Description:	Drilling Oil and Gas Wells
Issued EPA ID Date:	2017-12-14 16:13:52.21000
Inactive Date:	2018-03-16 03:00:17.88300
Facility Name:	ENSIGN USD - RIG 550
Facility Address:	LAT/LONG_USED
Facility Address 2:	Not reported
Facility City:	HUNTINGTON BEACH
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92648

K118 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662077**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 1 of 4 in cluster K

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903033
Confidential Well:	No
Well Number:	S-120
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67697
Longitude:	-118.0279
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

E119 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S126254954**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 4 of 4 in cluster E

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907910
Confidential Well:	No
Well Number:	12
Direction:	N
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Unknown
Latitude:	33.67645
Longitude:	-118.0259
Well Type:	Water Disposal

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S126254954**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

L120 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662465**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 7 in cluster L

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921735
Confidential Well:	No
Well Number:	734 I
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Notice of Intent to Drill
Latitude:	33.67458
Longitude:	-118.0248
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

L121 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662466**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 7 in cluster L

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921738

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662466**

Confidential Well:	No
Well Number:	737I
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Notice of Intent to Drill
Latitude:	33.67453
Longitude:	-118.0248
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

F122 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662378**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 6 of 6 in cluster F

Relative: **Higher**
Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920740
Confidential Well:	No
Well Number:	UJ-257
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67641
Longitude:	-118.0275
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

K123 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587185**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 4 in cluster K

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903122
Confidential Well:	No
Well Number:	575
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67683
Longitude:	-118.0280
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

K124 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662403**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 4 in cluster K

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920983
Confidential Well:	No
Well Number:	CJ-287
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	33.67673
Longitude:	-118.0278
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662403**

Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

K125 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662091**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 4 in cluster K

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903087
Confidential Well:	No
Well Number:	523
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67673
Longitude:	-118.0278
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

M126 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662346**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 7 in cluster M

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907911

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662346**

Confidential Well:	No
Well Number:	20
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67370
Longitude:	-118.0239
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

L127 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662057**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 3 of 7 in cluster L

Relative: **Higher**
Actual: **38 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902911
Confidential Well:	No
Well Number:	UJ-191
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67396
Longitude:	-118.0246
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N128 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662345**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907909
Confidential Well:	No
Well Number:	11A
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67239
Longitude:	-118.0222
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

M129 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587183**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 7 in cluster M

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902990
Confidential Well:	No
Well Number:	UJ-293
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67322
Longitude:	-118.0237
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S128587183**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N130 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125664548**
N/A

< 1/8
1 ft.

ORANGE OFFSHORE (County), CA

Site 2 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0425903044
Confidential Well:	No
Well Number:	UJ-258
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	08
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67233
Longitude:	-118.0225
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

N131 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662046**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902859

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662046**

Confidential Well:	No
Well Number:	UJ-87
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67229
Longitude:	-118.0225
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N132 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662065**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 4 of 11 in cluster N

Relative: **Higher**
Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902956
Confidential Well:	No
Well Number:	S-43A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67251
Longitude:	-118.0226
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N133 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662079**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 5 of 11 in cluster N

Relative: UIC:
Higher

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903046
Confidential Well:	No
Well Number:	UJ-172
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67252
Longitude:	-118.0228
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Actual:
37 ft.

M134 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662041**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 3 of 7 in cluster M

Relative: UIC:
Higher

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902821
Confidential Well:	No
Well Number:	S-164
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67336
Longitude:	-118.0237
Well Type:	Water Flood

Actual:
37 ft.

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662041**

Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

M135 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662088**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 7 in cluster M

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903078
Confidential Well:	No
Well Number:	514B
Direction:	Y
Lease Name:	State Prc 425
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67369
Longitude:	-118.0242
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

O136 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662047**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 3 in cluster O

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902863

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662047**

Confidential Well:	No
Well Number:	UJ-91C
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67301
Longitude:	-118.0234
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

M137 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125661985**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 5 of 7 in cluster M

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405900104
Confidential Well:	No
Well Number:	J-43A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67325
Longitude:	-118.0236
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

A138 **PLATFORM EMMY** **CERS** **S129010760**
1.3 MILES OFFSHORE **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

Site 58 of 60 in cluster A

Relative:
Higher

Actual:
37 ft.

CERS:
Name: PLATFORM EMMY
Address: 1.3 MILES OFFSHORE
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 518830
CERS ID: 10784461
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-19-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct routine Hazardous Waste inspection. Consent to enter and inspect was granted by Desmond Fuzee of California Resources Corporation. Also present was Marco Escobedo, HMS III of OCHCA. Facility is an oil production platform located 1.3 miles offshore from Huntington Beach. Walked the perimeter of the facility and only observed unsaturated oily rags. According to Mr. Fuzee, hazardous waste generation is rare. Business will be removed from the hazardous waste program.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1 World Trade Center Suite 1500
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90831
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Joe Martinez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

PLATFORM EMMY (Continued) **S129010760**

Affiliation Zip:	Not reported
Affiliation Phone:	(714) 969-3221,
Affiliation Type Desc:	Document Preparer
Entity Name:	Desmond Fuzee
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Desmond Fuzee
Entity Title:	Not reported
Affiliation Address:	1 World Trade Center Suite 1500
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90831
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Desmond Fuzee
Entity Title:	HSE Advisor Sr.
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	SoCal Holding LLC
Entity Title:	Not reported
Affiliation Address:	1 World Trade Center Suite 1500
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90831
Affiliation Phone:	(562) 999-8200,
Affiliation Type Desc:	Parent Corporation
Entity Name:	CALIFORNIA RESOURCES PRODUCTION CORP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

L139 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662432**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 7 in cluster L

Relative:
Higher

Actual:
38 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921353
Confidential Well:	No
Well Number:	34WD
Direction:	Y
Lease Name:	Lease by California Resources Production Corporation
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67409
Longitude:	-118.0247
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

A140 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662036**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 59 of 60 in cluster A

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902806
Confidential Well:	No
Well Number:	J-18C
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67382
Longitude:	-118.0242
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662036**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

A141 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662038**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 60 of 60 in cluster A

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902809
Confidential Well:	No
Well Number:	J-21
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67398
Longitude:	-118.0244
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

O142 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662080**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 3 in cluster O

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903048

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662080**

Confidential Well:	No
Well Number:	S-135B
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67286
Longitude:	-118.0233
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

M143 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662070**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 6 of 7 in cluster M

Relative: **Higher**

Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902991
Confidential Well:	No
Well Number:	S-78
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67363
Longitude:	-118.0242
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

O144 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662035**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 3 in cluster O

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902803
Confidential Well:	No
Well Number:	CJ-196A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67303
Longitude:	-118.0233
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

L145 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662395**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 5 of 7 in cluster L

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920921
Confidential Well:	No
Well Number:	UJ-276
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67422
Longitude:	-118.0247
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662395**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

L146 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662069**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 7 in cluster L

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902987
Confidential Well:	No
Well Number:	S-74A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67423
Longitude:	-118.0249
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

M147 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662081**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 7 in cluster M

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903049

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662081**

Confidential Well:	No
Well Number:	CJ-179
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67311
Longitude:	-118.0236
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

L148 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662037**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 7 in cluster L

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902808
Confidential Well:	No
Well Number:	J-20C
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	04
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67393
Longitude:	-118.0244
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P149 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662082**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 14 in cluster P

Relative:
Lower

Actual:
35 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903050
Confidential Well:	No
Well Number:	S-137A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66870
Longitude:	-118.0173
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q150 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662040**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902819
Confidential Well:	No
Well Number:	J-33A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66956
Longitude:	-118.0187
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662040**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

R151 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662064**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 1 of 5 in cluster R

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902948
Confidential Well:	No
Well Number:	S-39B
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67139
Longitude:	-118.0210
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q152 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662039**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902818

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662039**

Confidential Well:	No
Well Number:	UJ-32A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66934
Longitude:	-118.0184
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q153 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662042**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902822
Confidential Well:	No
Well Number:	UJ-38A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66961
Longitude:	-118.0187
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P154 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662052**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 14 in cluster P

Relative:
Lower

Actual:
34 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902895
Confidential Well:	No
Well Number:	UJ-130A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66860
Longitude:	-118.0173
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

R155 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662099**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 5 in cluster R

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903123
Confidential Well:	No
Well Number:	UJ-185
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	33.67136
Longitude:	-118.0212
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662099**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P156 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662412**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 14 in cluster P

Relative:
Lower

Actual:
36 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405921054
Confidential Well:	No
Well Number:	39
Direction:	Y
Lease Name:	State Prc 91
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66906
Longitude:	-118.0176
Well Type:	Steam Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

R157 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662344**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 5 in cluster R

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405907908

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662344**

Confidential Well:	No
Well Number:	4A
Direction:	Y
Lease Name:	Water Source Well
Field Name:	Huntington Beach
Area Name:	Onshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67161
Longitude:	-118.0215
Well Type:	Water Disposal
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	N
EPA Well:	N
Location:	Not reported
Dryhole:	N
Well DEP:	0.0000
Aband Status:	Not reported

P158 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662083**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 4 of 14 in cluster P

Relative: UIC:
Lower

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903051
Confidential Well:	No
Well Number:	UJ-156
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66880
Longitude:	-118.0174
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Actual:
35 ft.

S159 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662078**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 1 of 3 in cluster S

Relative: UIC:
Higher

Actual: Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
37 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405903037
Confidential Well: No
Well Number: S-124A
Direction: N
Lease Name: State Prc 392
Field Name: Huntington Beach
Area Name: South Offshore
Section: 10
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: GPS
Latitude: 33.67039
Longitude: -118.0198
Well Type: Water Flood
Well Status: Active
Operator Code: C0885
Operator Name: California Resources Production Corporation
BLM Well: Not reported
EPA Well: Not reported
Location: Not reported
Dryhole: Not reported
Well DEP: Not reported
Aband Status: Not reported

P160 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662054**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 5 of 14 in cluster P

Relative: UIC:
Lower

Actual: Name: CALIFORNIA RESOURCES PRODUCTION CORPORATION
36 ft. Address: Not reported
City,State,Zip: CA
API Number: 0405902897
Confidential Well: No
Well Number: CJ-132B
Direction: Y
Lease Name: State Prc 392
Field Name: Huntington Beach
Area Name: South Offshore
Section: 10
Township: 06S
Range: 11W
Base And Meridian; Part Of The PLSS: SB
GIS Source Code: Well Summary
Latitude: 33.66889
Longitude: -118.0176
Well Type: Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662054**

Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N161 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662371**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920687
Confidential Well:	No
Well Number:	UJ-188
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67184
Longitude:	-118.0217
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q162 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662059**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902932

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662059**

Confidential Well:	No
Well Number:	CJ-155
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66988
Longitude:	-118.0189
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P163 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662084**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 6 of 14 in cluster P

Relative: **Lower**
Actual: **34 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903053
Confidential Well:	No
Well Number:	UJ-186
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66866
Longitude:	-118.0174
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

S164 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662085**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 2 of 3 in cluster S

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405903059
Confidential Well:	No
Well Number:	S-147
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67021
Longitude:	-118.0196
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N165 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587206**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920696
Confidential Well:	No
Well Number:	UJ-251A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67195
Longitude:	-118.0220
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S128587206**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

S166 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662051**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 3 of 3 in cluster S

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902882
Confidential Well:	No
Well Number:	CJ-113
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67044
Longitude:	-118.0199
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P167 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662058**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 14 in cluster P

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902925

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662058**

Confidential Well:	No
Well Number:	S916
Direction:	Y
Lease Name:	State 91 Mzu
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66919
Longitude:	-118.0180
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N168 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662062**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 8 of 11 in cluster N

Relative: **Higher**
Actual: **37 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902940
Confidential Well:	No
Well Number:	UJ-178
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67188
Longitude:	-118.0217
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

R169 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662048**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 4 of 5 in cluster R

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902868
Confidential Well:	No
Well Number:	UJ-98C
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67097
Longitude:	-118.0206
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N170 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662034**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 9 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902800
Confidential Well:	No
Well Number:	J-11C
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67197
Longitude:	-118.0219
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662034**

Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P171 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662053**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 8 of 14 in cluster P

Relative:
Lower

Actual:
35 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902896
Confidential Well:	No
Well Number:	UJ-131A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66871
Longitude:	-118.0175
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P172 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662060**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 9 of 14 in cluster P

Relative:
Lower

Actual:
36 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902933

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662060**

Confidential Well:	No
Well Number:	S-22B
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66913
Longitude:	-118.0179
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P173 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662055**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 10 of 14 in cluster P

Relative: **Lower**
Actual: **35 ft.**

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902898
Confidential Well:	No
Well Number:	UJ-133A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66880
Longitude:	-118.0176
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q174 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S128587172**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 5 of 7 in cluster Q

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405901924
Confidential Well:	No
Well Number:	UJ-4A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66933
Longitude:	-118.0182
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

R175 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662351**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 5 of 5 in cluster R

Relative: UIC:
Higher

Actual:
37 ft.

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920114
Confidential Well:	No
Well Number:	UJ-177
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67150
Longitude:	-118.0214
Well Type:	Water Flood

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662351**

Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q176 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662376**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 6 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405920719
Confidential Well:	No
Well Number:	J-252
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66920
Longitude:	-118.0182
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N177 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662063**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 10 of 11 in cluster N

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902943

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662063**

Confidential Well:	No
Well Number:	S-34A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	03
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.67193
Longitude:	-118.0218
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Q178 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662012**
N/A

< 1/8
1 ft.

ORANGE (County), CA

Site 7 of 7 in cluster Q

Relative:
Higher

Actual:
37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405901923
Confidential Well:	No
Well Number:	UJ-3A
Direction:	N
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66928
Longitude:	-118.0181
Well Type:	Water Flood
Well Status:	Active
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P179 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662067**
N/A

< 1/8 **ORANGE (County), CA**
1 ft.

Site 11 of 14 in cluster P

Relative: UIC:
Lower

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902971
Confidential Well:	No
Well Number:	S915
Direction:	Y
Lease Name:	State 91 Mzu
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66895
Longitude:	-118.0178
Well Type:	Water Flood
Well Status:	Plugged
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

Actual:
36 ft.

---

180 **OM 2501 MSA METER RELOCATION** **NPDES** **S121452266**
ON GOLDENWEST STREET BETWEEN ERNEST DRIVE AND PACIFIC COAST **CIWQS** **N/A**

< 1/8 **HUNTINGTON BEACH, CA 92648**
1 ft.

NPDES:

Relative:
Higher

Name:	OM 2501 MSA METER RELOCATION
Address:	ON GOLDENWEST STREET BETWEEN ERNEST DRIVE AND PACIFIC COAST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C382712
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported

Actual:
38 ft.

OM 2501 MSA METER RELOCATION (Continued) **S121452266**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	10/30/2018
Operator Name:	Southern California Gas Company Transmission
Operator Address:	555 W 5th St GT20C1
Operator City:	Los Angeles
Operator State:	California
Operator Zip:	90013

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	495561
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C382712
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/09/2018
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Southern California Gas Company Transmission
Discharge Address:	555 W 5th St GT20C1
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90013
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

OM 2501 MSA METER RELOCATION (Continued) **S121452266**

Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	Om 2501 Msa Meter Relocation
Address:	ON GOLDENWEST STREET BETWEEN ERNEST DRIVE AND PACIFIC COAST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Agency:	Southern California Gas Company Transmission
Agency Address:	555 W 5th St GT20C1, Los Angeles, CA 90013
Place/Project Type:	Construction - Gas Line
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C382712
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	03/09/2018
Termination Date:	10/05/2018
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:	33.67059

OM 2501 MSA METER RELOCATION (Continued) **S121452266**

Longitude: -118.018761

P181 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662056 N/A**

< 1/8 **ORANGE (County), CA**
1 ft.

Site 12 of 14 in cluster P

Relative: Lower
Actual: 35 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902899
Confidential Well:	No
Well Number:	UJ-134B
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S
Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	GPS
Latitude:	33.66876
Longitude:	-118.0176
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

N182 **CALIFORNIA RESOURCES PRODUCTION CORPORATION** **UIC** **S125662061 N/A**

< 1/8 **ORANGE (County), CA**
1 ft.

Site 11 of 11 in cluster N

Relative: Higher
Actual: 37 ft.

UIC:

Name:	CALIFORNIA RESOURCES PRODUCTION CORPORATION
Address:	Not reported
City,State,Zip:	CA
API Number:	0405902938
Confidential Well:	No
Well Number:	S-28A
Direction:	Y
Lease Name:	State Prc 392
Field Name:	Huntington Beach
Area Name:	South Offshore
Section:	10
Township:	06S

CALIFORNIA RESOURCES PRODUCTION CORPORATION (Continued) **S125662061**

Range:	11W
Base And Meridian; Part Of The PLSS:	SB
GIS Source Code:	Well Summary
Latitude:	33.67203
Longitude:	-118.0219
Well Type:	Water Flood
Well Status:	Idle
Operator Code:	C0885
Operator Name:	California Resources Production Corporation
BLM Well:	Not reported
EPA Well:	Not reported
Location:	Not reported
Dryhole:	Not reported
Well DEP:	Not reported
Aband Status:	Not reported

P183 **AERA ENERGY, LLC** **CPS-SLIC** **S107030077**
SE **UNK PCH & GOLDENWEST** **Orange Co. Ind Site** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648** **CERS**
0.019 mi.
101 ft. **Site 13 of 14 in cluster P**

Relative: **Lower**

Actual: **33 ft.**

CPS-SLIC:

Name:	AERA ENERGY, LLC
Address:	UNK PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/13/2005
Global Id:	T10000020536
Lead Agency:	ORANGE COUNTY LOP
Lead Agency Case Number:	90IC033
Latitude:	33.6682603
Longitude:	-118.0172974
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	06/13/2005
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	06/13/2005
CA Water Watershed Name:	Not reported
Dwr Groundwater Subbasin Name:	Not reported
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	21-25%
CA Enviroscreen 4 Score:	10-15%

AERA ENERGY, LLC (Continued) **S107030077**

Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Please refer to recent Site Documents or Monitoring Reports for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

Orange Co. Ind Site:

Name:	AERA ENERGY, LLC
Address:	UNK PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Case ID:	90IC033
Record ID:	RO0000265
Current Status:	CLOSED
Closure Type:	Voluntary Cleanup Program Termination
Released Chemical:	ORGANIC COMPOUNDS
Closed Date:	6/13/2005
File Location:	Not reported

CERS:

Name:	AERA ENERGY, LLC
Address:	UNK PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	901342
CERS ID:	T10000020536
CERS Description:	Cleanup Program Site

P184 **F V GROUP LLC PROPERTY** **CPS-SLIC** **S106116067**
SE **UNK NE PCH & GOLDENWEST** **Orange Co. Ind Site** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648** **CERS**
0.019 mi.
101 ft. **Site 14 of 14 in cluster P**

Relative:
Lower

Actual:
33 ft.

CPS-SLIC:

Name:	F V GROUP LLC PROPERTY
Address:	UNK NE PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	04/23/1999
Global Id:	T10000020606
Lead Agency:	ORANGE COUNTY LOP
Lead Agency Case Number:	98IC031
Latitude:	33.6682603
Longitude:	-118.0172974
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported

F V GROUP LLC PROPERTY (Continued) **S106116067**

EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	04/23/1999
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	04/23/1999
CA Water Watershed Name:	Not reported
Dwr Groundwater Subbasin Name:	Not reported
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	21-25%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Please refer to recent Site Documents or Monitoring Reports for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

Orange Co. Ind Site:

Name:	F V GROUP LLC PROPERTY
Address:	UNK NE PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Case ID:	98IC031
Record ID:	RO0000662
Current Status:	CLOSED
Closure Type:	Closure certification issued
Released Chemical:	POLYCHLORINATED; BIPHENYLS
Closed Date:	4/23/1999
File Location:	Not reported

CERS:

Name:	F V GROUP LLC PROPERTY
Address:	UNK NE PCH & GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	905119
CERS ID:	T10000020606
CERS Description:	Cleanup Program Site

J185
NNW
< 1/8
0.043 mi.
225 ft.

BP ANDREEA MOYES — **EDR Hist Auto** — **1020189110**
6032 PANORAMA DR — **N/A**
HUNTINGTON BEACH, CA 92648

Site 2 of 2 in cluster J

Relative: Higher

Actual: 38 ft.

EDR Hist Auto

Year:	Name:	Type:
2010	BP ANDREEA MOYES	Gasoline Service Stations, NEC
2011	BP ANDREEA MOYES	Gasoline Service Stations, NEC
2012	BP ANDREEA MOYES	Gasoline Service Stations, NEC
2013	BP ANDREEA MOYES	Gasoline Service Stations, NEC
2014	BP ANDREEA MOYES	Gasoline Service Stations, NEC

186
NNW
< 1/8
0.083 mi.
437 ft.

GARFIELD CHEVRON — **EDR Hist Auto** — **1021699580**
19382 MAIDSTONE LN — **N/A**
HUNTINGTON BEACH, CA 92648

Relative: Higher

Actual: 37 ft.

EDR Hist Auto

Year:	Name:	Type:
2004	GARFIELD CHEVRON	Gasoline Service Stations
2005	GARFIELD CHEVRON	Gasoline Service Stations, NEC
2006	GARFIELD CHEVRON	Gasoline Service Stations, NEC
2007	GARFIELD CHEVRON	Gasoline Service Stations, NEC
2008	GARFIELD CHEVRON	Gasoline Service Stations, NEC

187
ESE
< 1/8
0.090 mi.
473 ft.

6651 FEATHER DRIVE — **RCRA NonGen / NLR** — **1027457405**
6651 FEATHER DRIVE — **E MANIFEST** — **CAC003195687**
HUNTINGTON BEACH, CA 92648

Relative: Higher

Actual: 38 ft.

RCRA Listings:

Date Form Received by Agency:	20220920
Handler Name:	6651 Feather Drive
Handler Address:	6651 Feather Drive
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC003195687
Contact Name:	BRANDON PHAM
Contact Address:	6651 FEATHER DRIVE
Contact City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact Telephone:	714-333-7397
Contact Fax:	Not reported
Contact Email:	LRIVERO@APEX411.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported

6651 FEATHER DRIVE (Continued) **1027457405**

Mailing Address:		6651 FEATHER DRIVE
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Brandon Pham	
Owner Type:		Other
Operator Name:	Brandon Pham	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20241212
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No
Sub-Part P Indicator:		No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRANDON PHAM	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6651 FEATHER DRIVE
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-333-7397

6651 FEATHER DRIVE (Continued) **1027457405**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BRANDON PHAM
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 6651 FEATHER DRIVE
Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone: 714-333-7397
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220920
Handler Name: 6651 FEATHER DRIVE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 023484004JJK
Last Updated Date: 20221206
Shipped Date: 20221020
Received Date: 20221027
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003195687
Generator Name: Brandon Pham
Generator Location Street Number: Not reported
Generator Location Street 1: 6651 FEATHER DRIVE
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH

6651 FEATHER DRIVE (Continued) **1027457405**

Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6651 FEATHER DRIVE
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000002428
Designated Facility Name:	Copper Mountain Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	34853 E COUNTY 12TH ST
Designated Facility Mail City:	WELLTON
Designated Facility Mail Zip:	85356
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	34853 E COUNTY 12TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	WELLTON
Designated Facility Location Zip:	85356
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	023484004JJK
Transporter Line Number:	1
Transporter EPA ID:	CAL000446510
Transporter Name:	Best Auto Body

Manifest Tracking Number:	023484004JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000327627
Transporter Name:	Vls San Diego, Llc

Waste Line:

Manifest Tracking Number:	023484004JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	10
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0

6651 FEATHER DRIVE (Continued) **1027457405**

Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

T188 **BRIGHTVIEW GOLF AT SEACLIFF** **E MANIFEST** **1031506846**
ENE **6501 PALM AVE BUILD 1** **N/A**
< 1/8 **HUNTINGTOM BEACH, CA 92648**
0.099 mi.
525 ft. **Site 1 of 7 in cluster T**

Relative: **Higher**
Actual: **37 ft.**

E MANIFEST:

Manifest Tracking Number:	008039357SKS
Last Updated Date:	20211007
Shipped Date:	20210812
Received Date:	20210916
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000463310
Generator Name:	Brightview Golf At Seacliff
Generator Location Street Number:	Not reported
Generator Location Street 1:	6501 PALM AVE BUILD 1
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTOM BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6501 Palm Ave Build 1
Generator Mail Street 2:	Not reported
Generator Mail City:	Huntington Beach
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Brightview Golf At Seacliff
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1031506846**

Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	008039359SKS
Last Updated Date:	20210930
Shipped Date:	20210812
Received Date:	20210903
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000463310
Generator Name:	Brightview Golf At Seacliff
Generator Location Street Number:	Not reported
Generator Location Street 1:	6501 PALM AVE BUILD 1
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTOM BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6501 Palm Ave Build 1
Generator Mail Street 2:	Not reported
Generator Mail City:	Huntington Beach
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Brightview Golf At Seacliff
Designated Facility EPA ID:	CAD980675276
Designated Facility Name:	Clean Harbors Buttonwillow Llc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	PO Box 787
Designated Facility Mail City:	Buttonwillow
Designated Facility Mail Zip:	93206
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2500 West Lokern Road
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Buttonwillow
Designated Facility Location Zip:	93206
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	008039360SKS
Last Updated Date:	20211025
Shipped Date:	20210812
Received Date:	20211005

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1031506846**

Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000463310
Generator Name:	Brightview Golf At Seacliff
Generator Location Street Number:	Not reported
Generator Location Street 1:	6501 PALM AVE BUILD 1
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTOM BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6501 Palm Ave Build 1
Generator Mail Street 2:	Not reported
Generator Mail City:	Huntington Beach
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Brightview Golf At Seacliff
Designated Facility EPA ID:	AZD049318009
Designated Facility Name:	Clean Harbors Arizona Llc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1340 West Lincoln Street
Designated Facility Mail City:	Phoenix
Designated Facility Mail Zip:	85007
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1340 West Lincoln Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Phoenix
Designated Facility Location Zip:	85007
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	008039360SKS
Transporter Line Number:	1
Transporter EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Manifest Tracking Number:	008039360SKS
Transporter Line Number:	2
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.
Manifest Tracking Number:	008039360SKS
Transporter Line Number:	3
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.
Manifest Tracking Number:	008039360SKS
Transporter Line Number:	4
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1031506846**

Manifest Tracking Number:	008039360SKS
Transporter Line Number:	5
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

Waste Line:

Manifest Tracking Number:	008039360SKS
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1263
U.S. DOT Description:	Residue Last Contained: Un1263, Paint, 3, Pg Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	3
Container Type Code:	DF
Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	90
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.045
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.045
Waste Quantity, in Kilograms:	40.816353
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	40.816353
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	40.816353
Quantity Non Haz Tons:	0.045
State Waste Codes:	CA-512

T189 **SEACLIFF COUNTRY CLUB** **RCRA NonGen / NLR** **1024789159**
ENE **6501 PALM AVE** **CAL000060465**
< 1/8 **HUNTINGTON BEACH, CA 92648**
0.099 mi.
525 ft. **Site 2 of 7 in cluster T**

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:	19920310
Handler Name:	Seacliff Country Club
Handler Address:	6501 Palm Ave

SEACLIFF COUNTRY CLUB (Continued) **1024789159**

Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648-2611
EPA ID:		CAL000060465
Contact Name:		DAWN SCOTT
Contact Address:		P.O. BOX 45005
Contact City,State,Zip:		LOS ANGELES, CA 90045
Contact Telephone:		310-664-4216
Contact Fax:		310-664-4354
Contact Email:		DSCOTT@AMERICANGOLF.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		P.O. BOX 45005
Mailing City,State,Zip:		LOS ANGELES, CA 90045-0000
Owner Name:	American Golf Corporation	
Owner Type:		Other
Operator Name:	Dawn Scott	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20180905

SEACLIFF COUNTRY CLUB (Continued) **1024789159**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAWN SCOTT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 45005
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90045
Owner/Operator Telephone:	310-664-4216
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AMERICAN GOLF CORPORATION	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	909 N. SEPULVEDA BLVD
Owner/Operator City,State,Zip:	EL SEGUNDO, CA 90245
Owner/Operator Telephone:	310-664-4216
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19920310
Handler Name: SEACLIFF COUNTRY CLUB	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	71391
NAICS Description:	Golf Courses And Country Clubs

Facility Has Received Notices of Violations:

Violations:	No Violations Found

SEACLIFF COUNTRY CLUB (Continued) **1024789159**

Evaluation Action Summary:
Evaluations: No Evaluations Found

T190 **THE HUNTINGTON CLUB** **RCRA NonGen / NLR** **1027700604**
ENE **6501 PALM AVENUE** **E MANIFEST** **CAL000477172**
< 1/8 **HUNTINGTON BEACH, CA 92648**
0.099 mi.
525 ft. **Site 3 of 7 in cluster T**

Relative:
Higher

Actual:
37 ft.

RCRA Listings:

Date Form Received by Agency:	20230403
Handler Name:	The Huntington Club
Handler Address:	6501 Palm Ave
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAL000477172
Contact Name:	KEVIN NEAL
Contact Address:	6501 PALM AVE
Contact City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact Telephone:	714-536-8866
Contact Fax:	Not reported
Contact Email:	KNEAL@CAMARADERIECLUBS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	6501 PALM AVE
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner Name: The Huntington Club Llc	
Owner Type:	Other
Operator Name: Kevin Neal	
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

THE HUNTINGTON CLUB (Continued) **1027700604**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20230407
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KEVIN NEAL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6501 PALM AVE
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-536-8866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: THE HUNTINGTON CLUB LLC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6501 PALM AVE
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-536-8866
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20230403
Handler Name: THE HUNTINGTON CLUB	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

THE HUNTINGTON CLUB (Continued) **1027700604**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 713990
NAICS Description: All Other Amusement And Recreation Industries

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 009192087SKS
Last Updated Date: 20240702
Shipped Date: 20240529
Received Date: 20240607
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Service
Generator EPA ID: CAL000477172
Generator Name: The Huntington Club
Generator Location Street Number: Not reported
Generator Location Street 1: 6501 PALM AVENUE
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA
Generator Location Zip: 92648
Generator Mail Street Number: Not reported
Generator Mail Street 1: 6501 PALM AVENUE
Generator Mail Street 2: Not reported
Generator Mail City: HUNTINGTON BEACH
Generator Mail Zip: 92648
Generator Mail State: CA
Generator Contact Company Name: THE HUNTINGTON CLUB
Designated Facility EPA ID: CAD044429835
Designated Facility Name: Clean Harbors Wilmington Llc
Designated Facility Mail Street Number: 1737
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: EAST DENNI STREET
Designated Facility Mail City: WILMINGTON
Designated Facility Mail Zip: 90744
Designated Facility Mail State: CA
Designated Facility Location Street Number: 1737
Designated Facility Location Street 1: EAST DENNI STREET
Designated Facility Location Street 2: Not reported
Designated Facility Location City: WILMINGTON
Designated Facility Location Zip: 90744
Designated Facility Location State: CA
Designated Facility Contact Company Name: Not reported

THE HUNTINGTON CLUB (Continued) **1027700604**

Manifest Residue Indicator: N
Rejection Indicator: N

Transporter:
Manifest Tracking Number: 009192087SKS
Transporter Line Number: 1
Transporter EPA ID: TXR000081205
Transporter Name: Safety-Kleen Systems, Inc.

Manifest Tracking Number: 009192087SKS
Transporter Line Number: 2
Transporter EPA ID: MAD039322250
Transporter Name: Clean Harbors Environmental Services, Inc.

Waste Line:
Manifest Tracking Number: 009192087SKS
Waste Line Number: 1
U.S. DOT Hazardous Indicator: N
U.S. DOT ID Number: Not reported
U.S. DOT Description: Not reported
Non-Hazardous Waste Description: None, None, Non Rcra Hazardous Waste Liquids ,), N/ (Oil And Water), N/A, None
Number of Containers: 2
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 400
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.2
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.2
Waste Quantity, in Kilograms: 181.406
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 181.406
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: N
Federal Waste Codes: Not reported
Quantity Haz Kg: 0
Quantity Haz Tons: 0
Quantity Non Haz Kg: 181.406
Quantity Non Haz Tons: 0.2
State Waste Codes: CA-223

T191 **BRIGHTVIEW GOLF AT SEACLIFF** **RCRA NonGen / NLR** **1026828316**
ENE **6501 PALM AVE BUILD 1** **E MANIFEST** **CAL000463310**
< 1/8 **HUNTINGTON BEACH, CA 92648**
0.099 mi.
525 ft. **Site 4 of 7 in cluster T**

Relative: **Higher**
Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:	20210610
Handler Name:	Brightview Golf Maintenance At Seacliff Country Club
Handler Address:	6501 Palm Ave
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAL000463310
Contact Name:	JESSE SEGUIN
Contact Address:	27001 AGOURA RD
Contact City,State,Zip:	CALABASAS, CA 91301
Contact Telephone:	747-230-2270
Contact Fax:	Not reported
Contact Email:	JESSE.SEGUIN@BRIGHTVIEW.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	27001 AGOURA RD
Mailing City,State,Zip:	CALABASAS, CA 91301
Owner Name:	Brightview Golf Maintenance Inc
Owner Type:	Other
Operator Name:	Jesse Seguin
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1026828316**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210618
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JESSE SEGUIN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27001 AGOURA RD
Owner/Operator City,State,Zip:	CALABASAS, CA 91301
Owner/Operator Telephone:	747-230-2270
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: BRIGHTVIEW GOLF MAINTENANCE INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27001 AGOURA RD STE 350
Owner/Operator City,State,Zip:	CALABASAS, CA 91301
Owner/Operator Telephone:	818-737-2735
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20210610
Handler Name:	BRIGHTVIEW GOLF MAINTENANCE AT SEACLIFF COUNTRY CLUB
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1026828316**

List of NAICS Codes and Descriptions:
NAICS Code: 561730
NAICS Description: Landscaping Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	008633751SKS
Last Updated Date:	20221101
Shipped Date:	20220923
Received Date:	20221011
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000463310
Generator Name:	Brightview Golf At Seacliff
Generator Location Street Number:	Not reported
Generator Location Street 1:	6501 PALM AVE BUILD 1
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6501 Palm Ave Build 1
Generator Mail Street 2:	Not reported
Generator Mail City:	Huntington Beach
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Brightview Golf At Seacliff
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	008633751SKS
Transporter Line Number:	1

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1026828316**

Transporter EPA ID: TXR000081205
Transporter Name: Safety-Kleen Systems, Inc.

Manifest Tracking Number: 008633751SKS
Transporter Line Number: 2
Transporter EPA ID: MAD039322250
Transporter Name: Clean Harbors Environmental Services, Inc.

Manifest Tracking Number: 008633751SKS
Transporter Line Number: 3
Transporter EPA ID: CAR000181560
Transporter Name: Remedial Transportation Services

Manifest Tracking Number: 008633751SKS
Transporter Line Number: 4
Transporter EPA ID: MAD039322250
Transporter Name: Clean Harbors Environmental Services, Inc.

Waste Line:
Manifest Tracking Number: 008633751SKS
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1203
U.S. DOT Description: Un1203, Waste Un1203, Waste Gasoline Mixture, 3, Pg Ii, 3, Pg Ii
Non-Hazardous Waste Description: Not reported
Number of Containers: 2
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 400
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.2
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.2
Waste Quantity, in Kilograms: 181.406
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 181.406
Management Method Code: H040
Management Method Description: INCINERATION
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y
Federal Waste Codes: D001, D008, D018
Quantity Haz Kg: 181.406
Quantity Haz Tons: 0.2
Quantity Non Haz Kg: 0

BRIGHTVIEW GOLF AT SEACLIFF (Continued) **1026828316**

Quantity Non Haz Tons: 0
State Waste Codes: CA-212

T192 **HUNTINGTON SEACLIFF COUNTRY CL** **HAULERS** **S101631359**
ENE **6501 PALM AVE** **SWEEPS UST** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648** **CA FID UST**
0.099 mi. **CERS TANKS**
525 ft. **Site 5 of 7 in cluster T** **CHMIRS**
HWTS
Relative: Higher **CERS**

Actual: 37 ft.

HAULERS:

Name:	HUNTINGTON CLUB
Address:	6501 PALM AVENUE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	1956861
Facility Phone:	Not reported
Business Email Address:	Not reported
Contact Person:	Moe Belmontes
Mailing Address:	6501 Palm Avenue
Mailing City:	Huntington Beach
Mailing State:	CA
Mailing Zip:	92648
Mailing County:	Not reported
Mailing Phone:	(949) 432-1888
Current Status:	Active
Current Hauler Status:	Not reported
Accepting Tires From Public:	Not reported
Regulatory Status Last Changed:	2024-09-17 10:59:45
Business Types:	Not reported

SWEEPS UST:

Name:	HUNTINGTON SEACLIFF COUNTRY CL
Address:	6501 PALM AVE
City:	HUNTINGTON BEACH
Status:	Active
Comp Number:	4770
Number:	9
Board Of Equalization:	44-016268
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-004770-000001
Tank Status:	A
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	4

Name:	HUNTINGTON SEACLIFF COUNTRY CL
Address:	6501 PALM AVE
City:	HUNTINGTON BEACH
Status:	Active
Comp Number:	4770

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Number: 9
Board Of Equalization: 44-016268
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004770-000002
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: HUNTINGTON SEACLIFF COUNTRY CL
Address: 6501 PALM AVE
City: HUNTINGTON BEACH
Status: Active
Comp Number: 4770
Number: 9
Board Of Equalization: 44-016268
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004770-000007
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: HUNTINGTON SEACLIFF COUNTRY CL
Address: 6501 PALM AVE
City: HUNTINGTON BEACH
Status: Active
Comp Number: 4770
Number: 9
Board Of Equalization: 44-016268
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004770-000008
Tank Status: A
Capacity: Not reported
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30013239

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145367353
Mail To:	Not reported
Mailing Address:	6501 PALM AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	HUNTINGTON BEACH 92648
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CERS TANKS:

Name:	THE HUNTINGTON CLUB
Address:	6501 PALM AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	410202
CERS ID:	10512952
CERS Description:	Aboveground Petroleum Storage

CHMIRS:

Name:	Not reported
Address:	6501 PALM AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
OES Incident Number:	08-1304
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

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

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:	1215
Year:	2008
Agency:	City of Huntington Beach Waste Water
Incident Date:	2/13/2008
Admin Agency:	Huntington Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sewage
Quantity Released:	500
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 there is a blockage in a sewer line that caused a release of approximately 500 gallons of sewage through a manhole and contained in a maintenance yard at a golf course.

HWTS:

Name:	THE HUNTINGTON CLUB
Address:	6501 PALM AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAL000477172
Inactive Date:	Not reported
Create Date:	04/03/2023
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	6501 PALM AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner Name:	THE HUNTINGTON CLUB LLC

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Owner Address:	6501 PALM AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	KEVIN NEAL
Contact Address:	6501 PALM AVE
Contact Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	Permanent
Category:	State
Latitude:	33.67473811
Longitude:	-118.0195454

CERS:

Name:	THE HUNTINGTON CLUB
Address:	6501 PALM AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	410202
CERS ID:	10512952
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	410202
Site Name:	THE HUNTINGTON CLUB
Violation Date:	06-24-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide bulk storage containers with adequate secondary containment large enough to contain the entire capacity of the largest container plus additional capacity to contain precipitation when applicable, and/or failure to position/locate mobile or portable containers to prevent a discharge.
Violation Notes:	Returned to compliance on 12/02/2022. OBSERVATION: Bulk storage containers do not have proper secondary containment to prevent a discharge CORRECTIVE ACTION: Implement secondary containment for bulk storage containers to prevent a discharge. Send documentation of violation correction to the agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	410202
Site Name:	THE HUNTINGTON CLUB
Violation Date:	06-24-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with one or more of the following requirements: 1. Have record of inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. 3. Keep comparison records.
Violation Notes:	Returned to compliance on 08/27/2021. OBSERVATION: Failure to comply with one or more of the following requirements: 1. Have record of

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

	inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. CORRECTIVE ACTION: Keep written inspection procedures, records of inspections and testing, signed by appropriate supervisor/inspector, for at least 3 years. Send copies of monthly visual tank inspection records to the agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	410202
Site Name:	THE HUNTINGTON CLUB
Violation Date:	09-22-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare and implement a Spill Prevention Control and Countermeasure (SPCC) Plan .
Violation Notes:	Returned to compliance on 11/21/2014. SPCC could not be found on this date. Please send me an updated SPCC plan within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	410202
Site Name:	THE HUNTINGTON CLUB
Violation Date:	06-24-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/27/2021. OBSERVATION: One 55gal drum of waste antifreeze, two 55gal containers of used oil, and one 55gal and 30gal drum of waste filters located in the shop area were observed without a hazardous waste label or an incomplete label. All hazardous labels are to include: facility information, accumulation start date, contents, physical state, and hazardous characteristics. CORRECTIVE ACTION: Submit documentation to the agency demonstrating that the containers listed above have been properly labeled within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	410202
Site Name:	THE HUNTINGTON CLUB
Violation Date:	10-06-2015
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Violation Notes: Returned to compliance on 02/29/2016. 10/6/2015 - Notice to comply mailed to update chemical inventory (add pool chemicals, LPG, carbon dioxide). 2/29/16 - submitted on CERS
Violation Division: Huntington Beach Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 410202
Site Name: THE HUNTINGTON CLUB
Violation Date: 12-18-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.
Violation Notes: Returned to compliance on 08/27/2021. Facility is required to have the following: 1) On site SPCC Prepared and implemented a. Facilities that are a qualified Tier 1 facility (store less than 10,000 gallons, with no single tank/container having a volume greater than 5,000 gallons) can create their own SPCC Plan using a federal template. b. Plan is required to be reviewed every 5 years. 2) Periodic checklist is available for tanks. 3) Appropriate secondary containment or diversionary structures To abate this violation have please go to www.occupainfo.com and fill out the template and send to this agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 410202
Site Name: THE HUNTINGTON CLUB
Violation Date: 06-24-2021
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan.
Violation Notes: Returned to compliance on 05/05/2022. OBSERVATION: SPCC plan has not been prepared in accordance with requirements for a Tier I facility. CORRECTIVE ACTION: Prepare the facility SPCC plan using the Tier I template pursuant to 40 CFR 112.6(a)(3). Provide SPCC to the agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 10-06-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Notice to comply mailed to update chemical inventory (add pool chemicals, LPG, carbon dioxide).
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Eval Date: 06-09-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTED BY B KHO
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-03-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted CERS submittal for Facility pages
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-10-2023
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Data Cleanup, inspection performed earlier in the year
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-27-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: In office for off site re-inspection following a routine inspection. Facility manager provided documents for inspections and testing. Facility is now performing monthly and weekly visual inspections of their tank and containers. Violation I258 corrected. SPCC plan and images of secondary containment for all containers 55gal and greater not provided. Violations I085 and I036 remain uncorrected.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-27-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: In office for off site re-inspection following a routine inspection. Facility managers provided images of hazardous waste containers and manifest for waste disposal. All containers are labeled and closed, and waste fuel, absorbent, and paint waste have been removed by Safety-Kleen for disposal. Violation I400 corrected. Facility has corrected all outstanding hazardous waste violations as of this report.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2017

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: email: super@seacliffcc.net
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-18-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for an aboveground petroleum storage tank (APST) inspection with Tim Facility is regulated under the Aboveground Storage Tank Act (APSA). Facility has between 1,320 and 9,999 gallons of regulated petroleum products. Orange County Environmental Health has created a website that contains information regarding the APST program and its requirements. The SPCC Plan requirements have also been provided. The APST website is located at http://www.occupainfo.com/ast.htm. For information regarding the SPCC Plan, please visit http://www.occupainfo.com/downloads/Ttier1-Qualified-Facility-SPCC-Pla n.doc . email: super@seacliffcc.net
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-24-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by managers Mike Mendoza and Jesse Seguin. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed but not properly labeled. Waste observed on site: - Used oil = 110gal - Waste coolant = 55gal - Waste oil filters = 85gal solid Manifests were not available, business took over site in 05/07/21 and have not had a waste disposal yet. Employees are reported to be trained. Emergency plan is posted in landscape office. No hazardous waste or universal waste observed in the dumpster/enclosure area.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-14-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed - SS
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct an annual routine Hazardous Waste Inspection. Met

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

with Steve who explained the process, escorted me through the site and gave consent to enter/inspect. Facility contains: 55 gallon drum of used antifreeze, 55 gallon drum of used oil filters, and 55 gallon drums used oil Hazardous waste containers are properly labeled and covered. Documents Available for review: 1. Hazardous waste Manifest/Receipts (keep a copy on site for three years). 2. Hazardous Waste Emergency Response information. .

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: review file CERS Please Facilities page - mark YES for HW Our records indicate you have hazardous waste.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-05-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to conduct a follow-up Aboveground Storage Tank (AST) inspection. Consent to enter and inspect granted by Jesse Seguin, Superintendent. SPCC Plan has been completed, reviewed on site, and date of plan is 8/19/2021. Violation I085 has been corrected. The following violation remains outstanding and must be corrected immediately: - I036: Failure to provide bulk storage containers with adequate secondary containment large enough to contain the entire capacity of the largest container plus additional capacity to contain precipitation when applicable, and/or failure to position/locate mobile or portable containers to prevent a discharge. HSC 6.67 25270.4.5(a); 40 CFR 1 112.6(a)(3)(ii). Please provide the following drums with secondary containment: - (3) 55-gallon Used Oil drums - (3) 55-gallon Motor Oil drums Immediately correct the violation above and provide a photograph to this Agency demonstrating compliance within 30 days.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-24-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine aboveground storage tank inspection. Consent to inspect and take any necessary photos was given by managers Jesse Seguin and Mike Mendoza. Facility has petroleum storage capacity between 1,320 gallons and 9,999 gallons. The following petroleum storage were observed on site and is regulated under APSA: - 1000gal Diesel - 1000gal Gasoline - 55gal x3 Motor oil - 55gal x2 Used oil - 55gal Hydraulic oil All regulated containers and tanks are secondarily contained except for 2 55gal drums of motor oil and one drum of hydraulic oil. Documentations are not available. SPCC plan not on

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

site. Monthly inspection logs are not available for review. Spill kits are available at all sites.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for an aboveground petroleum storage tank (APST) inspection Facility is regulated under the Aboveground Storage Tank Act (APSA). Facility has between 1,320 and 9,999 gallons of regulated petroleum products. Facility is required to have the following has the Following: 1) On site SPCC Prepared and implemented a. Facilities that are a qualified Tier 1 facility (store less than 10,000 gallons, with no single tank/container having a volume greater than 5,000 gallons) can create their own SPCC Plan using a federal template. b. Plan is required to be reviewed every 5 years. 2) Periodic checklist is available for tanks. 3) Appropriate secondary containment or diversionary structures Orange County Environmental Health has created a website that contains information regarding the APST program and its requirements. The SPCC Plan requirements have also been provided. The APST website is located at http://www.occupainfo.com/ast.htm. For information regarding the [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-30-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is a follow up inspection report for Aboveground Petroleum Storage Tank Program. It has come to this agencies attention that the following VIOLATION remains outstanding: -- I085 - Facility has failed to have an updated SPCC plan. To abate this violation send a copy of the SPCC plan to this agency. Go to www.occupainfo.com and fill out the Tier I SPCC Plan Template. Second and subsequent re-inspections may result in a re-inspection fee of $112/hour. .

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: 3/11/2020: Added the inspection conducted 7/16/2019. No Violations were noted. W. Betts

Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-30-2015
Violations Found: No

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Eval Type: Other, not routine, done by local agency
Eval Notes: Second notice to comply for declined submission
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-01-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an off site inspection to follow-up on the outstanding violation originally cited on 6/24/2021. The following violation remains outstanding and must be corrected immediately: - I036: Failure to provide bulk storage containers with adequate secondary containment large enough to contain the entire capacity of the largest container plus additional capacity to contain precipitation when applicable, and/or failure to position/locate mobile or portable containers to prevent a discharge. HSC 6.67 25270.4.5(a); 40 CFR 1 112.6(a)(3)(ii). Please provide the following drums with secondary containment IMMEDIATELY: - (3) 55-gallon Used Oil drums - (3) 55-gallon Motor Oil drums Immediately correct the violation above and provide a photograph to this Agency demonstrating compliance within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-19-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received photographs demonstrating that the 55-gallon drums of Motor Oil previously observed without secondary containment are now situated on secondary containment pallets. Violation I036 has been corrected. There are no violations that remain outstanding for this facility. A copy of this inspection report will be e-mailed to Kevin Neal at kneal@camaraderieclubs.com.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Coordinates:
Site ID: 410202
Facility Name: THE HUNTINGTON CLUB
Env Int Type Code: APSA
Program ID: 10512952
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.674580
Longitude: -118.019290

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,
Affiliation Type Desc:	Operator
Entity Name:	CAMARADERIE CLUBS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 536-8866,
Affiliation Type Desc:	Environmental Contact
Entity Name:	kevin laird
Entity Title:	Not reported
Affiliation Address:	6501 Palm Ave
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92648-2611
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6501 Palm Ave
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92648-2611
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	CAMARADERIE CLUBS
Entity Title:	Not reported
Affiliation Address:	6501 Palm Ave
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92648-2611
Affiliation Phone:	(657) 237-2581,
Affiliation Type Desc:	Parent Corporation
Entity Name:	THE HUNTINGTON CLUB
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	kevin laird

HUNTINGTON SEACLIFF COUNTRY CL (Continued) **S101631359**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	kevin laird
Entity Title:	DOF
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	golf realty fund
Entity Title:	Not reported
Affiliation Address:	one upper newport plaza
Affiliation City:	newport beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92660
Affiliation Phone:	(949) 251-2000,

T193 **HUNTINGTON SEACLIFF COUNTRY CLUB** **UST** **U003433071**
ENE **6501 PALM AVE** **N/A**
< 1/8 **HUNTINGTON BEACH, CA 92648**
0.099 mi.
525 ft. **Site 6 of 7 in cluster T**

Relative: UST:
Higher

Name:	HUNTINGTON SEACLIFF COUNTRY CLUB
Address:	6501 PALM AVE
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	4770
Permitting Agency:	ORANGE COUNTY
CERSID:	Not reported
Latitude:	33.680423
Longitude:	-118.014955
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported

Actual:
37 ft.

HUNTINGTON SEACLIFF COUNTRY CLUB (Continued) **U003433071**

Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

T194 **AST** **A100340780**
ENE **6501 PALM AVE** **N/A**
< 1/8 **HUNTINGTON BEACH, CA**
0.099 mi.
525 ft. **Site 7 of 7 in cluster T**

Relative: **Higher**

Actual: **37 ft.**

AST:

Name:	Not reported
Address:	6501 PALM AVE
City/Zip:	HUNTINGTON BEACH,
Certified Unified Program Agencies:	Orange
Owner:	SEACLIFF COUNTRY CLUB
Total Gallons:	1,320
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

(Continued) **A100340780**

Property Owner Country: Not reported
EPAID: Not reported

U195 **SHELL WESTERN E & P, INC** **HIST CORTESE** **S102437440**
SE **21ST ST** **N/A**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.151 mi.
798 ft. **Site 1 of 2 in cluster U**

Relative: HIST CORTESE:
Lower
Actual: edr_fname: SHELL WESTERN E & P, INC
33 ft. edr_fadd1: 21ST ST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001149T

V196 **ANGELA WANG** **RCRA NonGen / NLR** **1028900668**
ESE **406 22ND ST UNIT A** **CAC003262474**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.158 mi.
833 ft. **Site 1 of 6 in cluster V**

Relative: RCRA Listings:
Higher
Actual: Date Form Received by Agency: 20240227
37 ft. Handler Name: Angela Wang
Handler Address: 406 22nd St Unit A
Handler City,State,Zip: HUNTINGTON BEACH, CA 92648
EPA ID: CAC003262474
Contact Name: ANGELA WANG
Contact Address: 406 22ND ST UNIT A
Contact City,State,Zip: HUNTINGTON BEACH, CA 92648
Contact Telephone: 714-354-2093
Contact Fax: Not reported
Contact Email: ANGELALEOU@YAHOO.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: Not reported
Mailing City,State,Zip: Not reported
Owner Name: Not reported
Owner Type: Not reported
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

ANGELA WANG (Continued) **1028900668**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20250306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: ANGELA WANG	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	406 22ND ST UNIT A
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-354-2093
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: ANGELA WANG	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	406 22ND ST UNIT A

ANGELA WANG (Continued) **1028900668**

Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone: 714-354-2093
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20231127
Handler Name: ANGELA WANG
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20240227
Handler Name: ANGELA WANG
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20240227
Handler Name: ANGELA WANG
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

U197 **GOLDEN WEST PROPERTY/PACIFIC COAST HOA** **RCRA NonGen / NLR** **1024758234**
SE **2000 PACIFIC COAST HWY** **E MANIFEST** **CAC002978075**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.166 mi.
878 ft. **Site 2 of 2 in cluster U**

Relative: **Lower**

Actual: **33 ft.**

RCRA Listings:

Date Form Received by Agency:		20180829
Handler Name:		Golden West Property/Pacific Coast Hoa
Handler Address:		2000 Pacific Coast Hwy
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC002978075
Contact Name:		JASON MAURER
Contact Address:		6101 BALL RD #301
Contact City,State,Zip:		CYPRESS, CA 90630
Contact Telephone:		626-607-7618
Contact Fax:		Not reported
Contact Email:		EROBLES@IDRENVIRONMENTAL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		6101 BALL RD #301
Mailing City,State,Zip:		CYPRESS, CA 90630
Owner Name:	Golden West Property	
Owner Type:		Other
Operator Name:	Jason Maurer	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

GOLDEN WEST PROPERTY/PACIFIC COAST HOA (Continued) **1024758234**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JASON MAURER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6101 BALL RD #301
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	626-607-7618
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: GOLDEN WEST PROPERTY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6101 BALL RD #301
Owner/Operator City,State,Zip:	CYPRESS, CA 90630
Owner/Operator Telephone:	714-220-5920
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180829
Handler Name:	GOLDEN WEST PROPERTY/PACIFIC COAST HOA
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

GOLDEN WEST PROPERTY/PACIFIC COAST HOA (Continued) **1024758234**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	019615088JJK
Last Updated Date:	20190409
Shipped Date:	20180830
Received Date:	20180910
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Mail
Generator EPA ID:	CAC002978075
Generator Name:	Golden West Property/Pacific Coast Hoa
Generator Location Street Number:	Not reported
Generator Location Street 1:	2000 PACIFIC COAST HWY
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6101 BALL RD #301
Generator Mail Street 2:	Not reported
Generator Mail City:	CYPRESS
Generator Mail Zip:	90630
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000506980
Designated Facility Name:	South Yuma County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	PO BOX 5437
Designated Facility Mail City:	YUMA
Designated Facility Mail Zip:	85366-2472
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	19536 S AVENUE 1 E
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	YUMA
Designated Facility Location Zip:	85365
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	019615089JJK
Last Updated Date:	20191223
Shipped Date:	20180830

GOLDEN WEST PROPERTY/PACIFIC COAST HOA (Continued) **1024758234**

Received Date:	20180914
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC002978075
Generator Name:	Golden West Property/Pacific Coast Hoa
Generator Location Street Number:	Not reported
Generator Location Street 1:	2000 PACIFIC COAST HWY
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	6101 BALL RD #301
Generator Mail Street 2:	Not reported
Generator Mail City:	CYPRESS
Generator Mail Zip:	90630
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520304
Designated Facility Name:	Aa Sydcol Llc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	3155 GOLDEN WILLOW CT
Designated Facility Mail City:	YORBA LINDA
Designated Facility Mail Zip:	92886-1303
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2264 E 13TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	YUMA
Designated Facility Location Zip:	85365-1858
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	019615089JJK
Transporter Line Number:	1
Transporter EPA ID:	CAD981377864
Transporter Name:	Idr Environmental Services
Manifest Tracking Number:	019615089JJK
Transporter Line Number:	2
Transporter EPA ID:	CAD980585293
Transporter Name:	Industrial Waste Utilization Inc

Waste Line:

Manifest Tracking Number:	019615089JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	N
U.S. DOT ID Number:	Not reported
U.S. DOT Description:	Not reported
Non-Hazardous Waste Description:	Non-Rcra Hazardous Waste, Liquid (Oily Water)
Number of Containers:	4

GOLDEN WEST PROPERTY/PACIFIC COAST HOA (Continued) **1024758234**

Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	220
Quantity Unit of Measure Code:	G
Quantity Unit of Measure Description:	Gallons
Waste Quantity, in Tons:	0.9174312
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.9174312
Waste Quantity, in Kilograms:	832.13763
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	832.13763
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	832.13763
Quantity Non Haz Tons:	0.9174312
State Waste Codes:	CA-135

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198 ESE 1/8-1/4 0.177 mi. 934 ft.

SO CAL HOLDING, LLC **PFAS ECHO** **1027420536**
N/A

HUNTINGTON BEACH, CA

Relative: Higher

Actual: 39 ft.

PFAS ECHO:

Facility ID:	110071791774
Name:	So Cal Holding, Llc
Address:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA
Latitude:	33.671652
Longitude:	-118.014046
Count:	1
County:	ORANGE
Status:	Unknown
Region:	09
Industry:	Oil and Gas

ECHO Facility Report:

Facility Percent Minority:	30.649
Facility Derived Tribes:	-
Facility Population:	6426.67
EPA Programs:	-

SO CAL HOLDING, LLC (Continued) **1027420536**

Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06059
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18070201
Facility Derived WBD:	180702010001
Facility Derived CD113:	48
Facility Derived CB2010:	060590993101013
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

V199 **MIKE Q NGUYEN** **RCRA NonGen / NLR** **1026484754**
ESE **418 22ND ST** **E MANIFEST** **CAC003095817**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.182 mi.
961 ft. **Site 2 of 6 in cluster V**

Relative: **Higher**
Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:		20201204
Handler Name:		418 22nd St
Handler Address:		418 22nd St
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003095817
Contact Name:		MIKE Q NGUYEN
Contact Address:		418 22ND ST
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		503-719-9005
Contact Fax:		Not reported
Contact Email:		FAVILA@BURNS-ENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		418 22ND ST
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Mike Q Nguyen	
Owner Type:		Other
Operator Name:	Mike Q Nguyen	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

MIKE Q NGUYEN (Continued) **1026484754**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20241211
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MIKE Q NGUYEN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	113 6TH ST
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	503-719-9005
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: MIKE Q NGUYEN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	418 22ND ST
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	503-719-9005
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20201204
Handler Name: 418 22ND ST	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

MIKE Q NGUYEN (Continued) **1026484754**

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	006661520GBF
Last Updated Date:	20201204
Shipped Date:	20201102
Received Date:	20201112
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAC003090861
Generator Name:	Mike Q Nguyen
Generator Location Street Number:	Not reported
Generator Location Street 1:	418 22ND ST
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	113 6TH ST
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD009007626
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1211 W. GLADSTONE STREET
Designated Facility Mail City:	AZUSA
Designated Facility Mail Zip:	91702
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1211 W. GLADSTONE STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AZUSA
Designated Facility Location Zip:	91702
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Azusa Land Reclamation Co Inc
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	006661637GBF
Last Updated Date:	20210118
Shipped Date:	20201207

MIKE Q NGUYEN (Continued) **1026484754**

Received Date:	20201212
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAC003095817
Generator Name:	Mike Nguyen
Generator Location Street Number:	Not reported
Generator Location Street 1:	418 22ND ST
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648-3333
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	113 6th St
Generator Mail Street 2:	Not reported
Generator Mail City:	Huntington Beach
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD009007626
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1211 W. GLADSTONE STREET
Designated Facility Mail City:	AZUSA
Designated Facility Mail Zip:	91702
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1211 W. GLADSTONE STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AZUSA
Designated Facility Location Zip:	91702
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Azusa Land Reclamation Co Inc
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	006661637GBF
Transporter Line Number:	1
Transporter EPA ID:	CAL000395969
Transporter Name:	Burns & Partners Inc

Manifest Tracking Number:	006661637GBF
Transporter Line Number:	2
Transporter EPA ID:	CAR000181891
Transporter Name:	Usa Waste Of Ca Inc Dba Bdc Special Wast

Waste Line:

Manifest Tracking Number:	006661637GBF
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Rq, Na2212, Asbestos, 9, Pg Iii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	50

MIKE Q NGUYEN (Continued) **1026484754**

Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	5
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	4.2
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	4.2
Waste Quantity, in Kilograms:	3809.526
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	3809.526
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	3809.526
Quantity Non Haz Tons:	4.2
State Waste Codes:	CA-151

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200 NNW 1/8-1/4 0.188 mi. 994 ft. **BOLSA CHICA SITES 1 AND 2 IDS (2136)** **SWF/LF** **S126983750**
2 -SITES -AT WEST END SEAPOINT AVE. **N/A**
HUNTINGTON BEACH, CA 92648

Relative: Higher

Actual: 37 ft.

SWF/LF (SWIS):

Name:	BOLSA CHICA SITES 1 AND 2 IDS (2136)
Address:	2 -SITES -AT WEST END SEAPOINT AVE.
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility ID:	30-AB-0387
SWIS Number:	30-AB-0387
Point of Contact:	Casey Yearout
Is Archived:	Yes
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	A1
EPA Federal Registry ID:	Not reported
ARB District:	South Coast

BOLSA CHICA SITES 1 AND 2 IDS (2136) (Continued) **S126983750**

SWRCB Region:	Santa Ana
Local Government:	Huntington Beach
Reporting Agency Legal Name:	County of Orange
Reporting Agency Department:	Health Care Agency, Environmental Health Division
Enforcing Agency Legal Name:	County of Orange
Enforcing Agency Department:	Health Care Agency, Environmental Health Division
Regulation Status:	Unpermitted

Owner:

SWIS Number:	30-AB-0387
Owner:	City of Huntington Beach
Owner Address:	2000 Main St Dept of
Owner City:	Huntington Beach
Owner State:	CA
Owner Zip:	92648
Site Name:	Bolsa Chica Sites 1 and 2 IDS (2136)
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	33.68164
Longitude:	-118.02706
Is Archived:	Yes
Started On:	Not reported
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(714) 375-5077

V201 **SUN SUE KHALIL** **RCRA NonGen / NLR** **1027453027**
ESE **422 22ND ST UNIT B** **E MANIFEST** **CAC003191043**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.190 mi.
1005 ft. **Site 3 of 6 in cluster V**

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:	20220819
Handler Name:	Sun Sue Khalil
Handler Address:	422 22nd St Unit B
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC003191043
Contact Name:	ASBESTOS ABATEMENT INC
Contact Address:	2296 E VIA BURTON
Contact City,State,Zip:	ANAHEIM, ORANGE, CA, CA 92806
Contact Telephone:	714-780-1701
Contact Fax:	Not reported
Contact Email:	ELENA@ABGCONSTRUCTIONCO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2296 E VIA BURTON

SUN SUE KHALIL (Continued) **1027453027**

Mailing City,State,Zip:		ANAHEIM, ORANGE, CA, CA 92806
Owner Name:	Sun Sue Khalil	
Owner Type:		Other
Operator Name:	Asbestos Abatement Inc	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20220822
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No
Sub-Part P Indicator:		No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: ASBESTOS ABATEMENT INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2296 E VIA BURTON
Owner/Operator City,State,Zip:	ANAHEIM, ORANGE, CA, CA 92806
Owner/Operator Telephone:	714-780-1701
Owner/Operator Telephone Ext:	Not reported

SUN SUE KHALIL (Continued) **1027453027**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SUN SUE KHALIL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 422 22ND ST UNIT B
Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone: 714-780-1701
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220819
Handler Name: SUN SUE KHALIL
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 023804238JJK
Last Updated Date: 20220928
Shipped Date: 20220912
Received Date: 20220912
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Service
Generator EPA ID: CAC003191043
Generator Name: Sun Sue Khalil
Generator Location Street Number: Not reported
Generator Location Street 1: 422 22ND ST UNIT B
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA

SUN SUE KHALIL (Continued) **1027453027**

Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	2296 E VIA BURTON
Generator Mail Street 2:	VIA BURTON
Generator Mail City:	ANAHEIM, ORANGE, CA
Generator Mail Zip:	92806
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD009007626
Designated Facility Name:	Azusa Land Reclamation Co Inc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1211 W. GLADSTONE STREET
Designated Facility Mail City:	AZUSA
Designated Facility Mail Zip:	91702
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1211 W. GLADSTONE STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AZUSA
Designated Facility Location Zip:	91702
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	023804238JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000152058
Transporter Name:	Earthwise Services Llc

Waste Line:

Manifest Tracking Number:	023804238JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Na2212, Asbestos, 9, Pg Iii, Rq
Non-Hazardous Waste Description:	Not reported
Number of Containers:	8
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N

SUN SUE KHALIL (Continued) **1027453027**

Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

V202 **422 22ND ST #B** **RCRA NonGen / NLR** **1027204459**
ESE **422 22ND ST #B** **E MANIFEST** **CAC003168478**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.190 mi.
1005 ft. **Site 4 of 6 in cluster V**

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:		20220328
Handler Name:		422 22nd St #B
Handler Address:		422 22nd St #B
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003168478
Contact Name:		SOAD KHALIL
Contact Address:		422 22ND ST #B
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		626-482-9991
Contact Fax:		Not reported
Contact Email:		AMARTINO@VIKINGENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		422 22ND ST #B
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Soad Khalil	
Owner Type:		Other
Operator Name:	Soad Khalil	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No

422 22ND ST #B (Continued) **1027204459**

Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20241212
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SOAD KHALIL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 22ND ST #B
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	626-482-9991
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: SOAD KHALIL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 22ND ST #B
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	626-482-9991

422 22ND ST #B (Continued) **1027204459**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220328
Handler Name: 422 22ND ST #B
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 015014398FLE
Last Updated Date: 20220426
Shipped Date: 20220329
Received Date: 20220412
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003168478
Generator Name: Soad Khalil
Generator Location Street Number: Not reported
Generator Location Street 1: 422 22ND ST #B
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA
Generator Location Zip: 92648
Generator Mail Street Number: Not reported
Generator Mail Street 1: 422 22ND ST #B
Generator Mail Street 2: Not reported
Generator Mail City: HUNTINGTON BEACH
Generator Mail Zip: 92648
Generator Mail State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: AZR000520882
Designated Facility Name: La Paz County Landfill
Designated Facility Mail Street Number: Not reported

422 22ND ST #B (Continued) **1027204459**

Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	015014398FLE
Transporter Line Number:	1
Transporter EPA ID:	CAL000390361
Transporter Name:	Nck Industries Dba Viking Environmental Group

Manifest Tracking Number:	015014398FLE
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	015014398FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	R.Q. Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	35
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	3
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	2.52
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	2.52
Waste Quantity, in Kilograms:	2285.7156
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	2285.7156
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported

422 22ND ST #B (Continued) **1027204459**

Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	2285.7156
Quantity Non Haz Tons:	2.52
State Waste Codes:	CA-151

V203 **SUE KHALIL** **RCRA NonGen / NLR** **1031771111**
ESE **422 22ND ST #B** **CAC003331096**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.190 mi.
1005 ft. **Site 5 of 6 in cluster V**

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:		20250321
Handler Name:		Sue Khalil
Handler Address:		422 22nd St #B
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003331096
Contact Name:		SUE KHALIL
Contact Address:		422 22ND ST #B
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		626-482-9991
Contact Fax:		Not reported
Contact Email:		SUEKHALIL@AOL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		422 22ND ST #B
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Sue Khalil	
Owner Type:		Other
Operator Name:	Sue Khalil	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No

SUE KHALIL (Continued) **1031771111**

Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20250322
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SUE KHALIL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 22ND ST #B
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	626-482-9991
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: SUE KHALIL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 22ND ST #B
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	626-482-9991
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

SUE KHALIL (Continued) **1031771111**

Receive Date:	20250321
Handler Name: SUE KHALIL	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	All Other Waste Management Services

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

V204 **SUE KHALIL** **RCRA NonGen / NLR** **1027208016**
ESE **422 22ND ST APT B** **E MANIFEST** **CAC003172234**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.190 mi.
1005 ft. **Site 6 of 6 in cluster V**

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:	20220420
Handler Name:	Sue Khalil
Handler Address:	422 22nd St Apt B
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC003172234
Contact Name:	SUE KHALIL
Contact Address:	422 22ND ST APT B
Contact City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact Telephone:	949-394-3870
Contact Fax:	Not reported
Contact Email:	SCHEDULING@PWSEI.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	422 22ND ST APT B
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner Name: Sue Khalil	
Owner Type:	Other

SUE KHALIL (Continued) **1027208016**

Operator Name:	Sue Khalil
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220420
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SUE KHALIL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	422 22ND ST APT B
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-394-3870
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SUE KHALIL (Continued) **1027208016**

Owner/Operator Indicator: Operator
Owner/Operator Name: SUE KHALIL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 422 22ND ST APT B
Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone: 949-394-3870
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220420
Handler Name: SUE KHALIL
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 021436534JJK
Last Updated Date: 20220512
Shipped Date: 20220426
Received Date: 20220506
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003172234
Generator Name: Sue Khalil
Generator Location Street Number: Not reported
Generator Location Street 1: 422 22ND ST APT B
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA
Generator Location Zip: 92648
Generator Mail Street Number: Not reported
Generator Mail Street 1: 422 22ND ST APT B

SUE KHALIL (Continued) **1027208016**

Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	021436534JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000050815
Transporter Name:	P W Stephens Environmental Inc

Manifest Tracking Number:	021436534JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	021436534JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Rq Na2212, Asbestos, 9, Iii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	10
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N

SUE KHALIL (Continued) **1027208016**

Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

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205 KIBLER HALL **CERS TANKS S106837405**
ESE 317 20TH ST **EMI N/A**
1/8-1/4 HUNTINGTON BEACH, CA 92648
0.204 mi.
1075 ft.

Relative:
Lower

Actual:
36 ft.

CERS TANKS:

Name:	KIBLER HALL
Address:	317 20TH ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	422653
CERS ID:	10736314
CERS Description:	Aboveground Petroleum Storage

Coordinates:

Site ID:	422653
Facility Name:	KIBLER HALL
Env Int Type Code:	APSA
Program ID:	10736314
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	33.668460
Longitude:	-118.012980

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 3413
Affiliation City:	COSTA MESA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92628
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	Beverly King
Entity Title:	Not reported

KIBLER HALL (Continued) **S106837405**

Affiliation Address:	23961 DECORRO DRIVE #107
Affiliation City:	VALENCIA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91354
Affiliation Phone:	(661) 673-5768,
Affiliation Type Desc:	Identification Signer
Entity Name:	BRUCE KING
Entity Title:	PRESIDENT
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	KIBLER HALL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Beverly King
Entity Title:	Not reported
Affiliation Address:	23961 Decorro Drive
Affiliation City:	Valencia
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91354
Affiliation Phone:	(661) 673-5768,
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6406,
Affiliation Type Desc:	Document Preparer
Entity Name:	Jenny King
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

KIBLER HALL (Continued) **S106837405**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Raymond Grabiec
Entity Title:	Not reported
Affiliation Address:	9781 Acacia Ave
Affiliation City:	Garden Grove
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92841
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	JENNY KING
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 733-3641,

EMI:

Name:	PETROPRIZE, KIBLER HALL LEASE
Address:	317 20TH ST
City,State,Zip:	HUNTINGTON BEACH, CA
Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	46945
Air District Name:	SC
SIC Code:	1311
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 Smllr Tons/Yr:	0

Name:	PETROPRIZE, KIBLER HALL LEASE
Address:	317 20TH ST
City,State,Zip:	HUNTINGTON BEACH, CA
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	46945
Air District Name:	SC
SIC Code:	1311
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

KIBLER HALL (Continued) **S106837405**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

W206 **KIM MUNOZ** **RCRA NonGen / NLR** **1031042962**
SE **214 20TH ST, UNIT C** **E MANIFEST** **CAC003269518**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.210 mi.
1110 ft. **Site 1 of 4 in cluster W**

Relative: **Lower**
Actual: **34 ft.**

RCRA Listings:

Date Form Received by Agency:		20240419
Handler Name:		Kim Munoz
Handler Address:		214 20th St, Unit C
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003269518
Contact Name:		KIM MUNOZ
Contact Address:		214 20TH ST, UNIT C
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		949-202-7022
Contact Fax:		Not reported
Contact Email:		ELIZABETHS@PWSEI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline

KIM MUNOZ (Continued) **1031042962**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20240918
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: KIM MUNOZ	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	214 20TH ST, UNIT C
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-202-7022
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: KIM MUNOZ	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	214 20TH ST, UNIT C
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-202-7022
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20240118
Handler Name: KIM MUNOZ	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

KIM MUNOZ (Continued) **1031042962**

Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No
Receive Date:	20240419
Handler Name: KIM MUNOZ	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	All Other Waste Management Services

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	022931934JJK
Last Updated Date:	20240213
Shipped Date:	20240126
Received Date:	20240206
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003269518
Generator Name:	Munoz, Kim
Generator Location Street Number:	Not reported
Generator Location Street 1:	214 20TH ST, UNIT C
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	214 20TH ST, UNIT C
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill

KIM MUNOZ (Continued) **1031042962**

Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	022931934JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000050815
Transporter Name:	P W Stephens Environmental Inc

Manifest Tracking Number:	022931934JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	022931934JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Rq Na2212, Asbestos, 9, Iii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	5
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported

KIM MUNOZ (Continued) **1031042962**

Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	Not reported
Quantity Haz Tons:	Not reported
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

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207 **CHARLES GRIGER** **RCRA NonGen / NLR** **1026711287**
ESE **426 21ST STREET** **E MANIFEST** **CAC003099456**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.231 mi.
1219 ft.

Relative: **Higher**

Actual: **37 ft.**

RCRA Listings:

Date Form Received by Agency:		20210104
Handler Name:		Charles Griger
Handler Address:		426 21st Street
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648-3336
EPA ID:		CAC003099456
Contact Name:		KAREN WIGHTON
Contact Address:		921 12TH STREET
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		714-325-6200
Contact Fax:		Not reported
Contact Email:		KAREN@PACCITY.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		921 12TH STREET
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Charles Griger	
Owner Type:		Other
Operator Name:	Karen Wighton	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No

CHARLES GRIGER (Continued) **1026711287**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: CHARLES GRIGER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	921 12TH STREET
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-325-6200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: KAREN WIGHTON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	921 12TH STREET
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-325-6200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CHARLES GRIGER (Continued) **1026711287**

Historic Generators:
- Receive Date: 20210104
- Handler Name: CHARLES GRIGER
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: No
- Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

E MANIFEST:
- Manifest Tracking Number: 022171598JJK
- Last Updated Date: 20210205
- Shipped Date: 20210116
- Received Date: 20210201
- Manifest Status: Signed
- Submission Type: DataImage5Copy
- Origin Type: Web
- Generator EPA ID: CAC003099456
- Generator Name: Charles Griger
- Generator Location Street Number: Not reported
- Generator Location Street 1: 921 12TH STREET, HUNTINGTON BEACH
- Generator Location Street 2: Not reported
- Generator Location City: HUNTINGTON BEACH
- Generator Location State: CA
- Generator Location Zip: 92648
- Generator Mail Street Number: Not reported
- Generator Mail Street 1: 921 12TH STREET, HUNTINGTON BEACH
- Generator Mail Street 2: Not reported
- Generator Mail City: Huntington Beach
- Generator Mail Zip: 92648
- Generator Mail State: CA
- Generator Contact Company Name: Not reported
- Designated Facility EPA ID: AZR000520882
- Designated Facility Name: La Paz County Landfill
- Designated Facility Mail Street Number: Not reported
- Designated Facility Mail Street 1: Not reported
- Designated Facility Mail Street 2: 26999 HIGHWAY 95
- Designated Facility Mail City: PARKER
- Designated Facility Mail Zip: 85344

CHARLES GRIGER (Continued) **1026711287**

Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	022171598JJK
Transporter Line Number:	1
Transporter EPA ID:	CAL000160111
Transporter Name:	Alliance Evironmental Group

Manifest Tracking Number:	022171598JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	022171598JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Rq Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	25
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	2
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	1.68
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	1.68
Waste Quantity, in Kilograms:	1523.8104
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	1523.8104
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported

CHARLES GRIGER (Continued) **1026711287**

EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	1523.8104
Quantity Non Haz Tons:	1.68
State Waste Codes:	CA-151

W208 **HB RENTALS** **RCRA NonGen / NLR** **1027207403**
SE **205 19TH ST. UNIT A** **E MANIFEST** **CAC003171591**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.247 mi.
1302 ft. **Site 2 of 4 in cluster W**

Relative: **Lower**
Actual: **34 ft.**

RCRA Listings:

Date Form Received by Agency:		20220415
Handler Name:		205 19th St. Unit A
Handler Address:		205 19th St. Unit A
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003171591
Contact Name:		HB RENTALS
Contact Address:		20422 BEACH BLVD SUITE #115
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		714-369-8025
Contact Fax:		Not reported
Contact Email:		INFO@HBRENTALS.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		20422 BEACH BLVD SUITE #115
Mailing City,State,Zip:		HUNTINGTON BEACH, CA 92648
Owner Name:	Hb Rentals	
Owner Type:		Other
Operator Name:	Hb Rentals	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N

HB RENTALS (Continued) **1027207403**

Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20241212
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: HB RENTALS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	20422 BEACH BLVD SUITE #115
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-369-8025
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: HB RENTALS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	20422 BEACH BLVD SUITE #115
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	714-369-8025
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220415
Handler Name: 205 19TH ST. UNIT A	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported

HB RENTALS (Continued) **1027207403**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	All Other Waste Management Services

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	023666250JJK
Last Updated Date:	20220510
Shipped Date:	20220419
Received Date:	20220420
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAC003171591
Generator Name:	Hb Rentals
Generator Location Street Number:	Not reported
Generator Location Street 1:	205 19TH ST. UNIT A
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	20422 BEACH BLVD SUITE #115
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD009007626
Designated Facility Name:	Azusa Land Reclamation Co Inc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1211 W. GLADSTONE STREET
Designated Facility Mail City:	AZUSA
Designated Facility Mail Zip:	91702
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	1211 W. GLADSTONE STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	AZUSA

HB RENTALS (Continued) **1027207403**

Designated Facility Location Zip:	91702
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	023666250JJK
Transporter Line Number:	1
Transporter EPA ID:	CAR000152058
Transporter Name:	Earthwise Services Llc

Waste Line:

Manifest Tracking Number:	023666250JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Na2212, Asbestos, 9, Pg Iii, Rq
Non-Hazardous Waste Description:	Not reported
Number of Containers:	5
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

W209 **JONAH VILLA** **RCRA NonGen / NLR** **1028898616**
SE **213 19TH ST UNIT 2** **E MANIFEST** **CAC003260295**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.247 mi.
1303 ft. **Site 3 of 4 in cluster W**

Relative: **Lower**
Actual: **34 ft.**

RCRA Listings:

Date Form Received by Agency:		20240208
Handler Name:		Jonah Villa
Handler Address:		213 19th St Unit 2
Handler City,State,Zip:		HUNTINGTON BEACH, CA 92648
EPA ID:		CAC003260295
Contact Name:		JONAH VILLA
Contact Address:		213 19TH ST UNIT 2
Contact City,State,Zip:		HUNTINGTON BEACH, CA 92648
Contact Telephone:		949-742-1258
Contact Fax:		Not reported
Contact Email:		JONAH@TRADEWINDSEMS.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

JONAH VILLA (Continued) **1028898616**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20250306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JONAH VILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	213 19TH ST UNIT 2
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-742-1258
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: JONAH VILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	213 19TH ST UNIT 2
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-742-1258
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20231109
Handler Name: JONAH VILLA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

JONAH VILLA (Continued) **1028898616**

Receive Date: 20240208
Handler Name: JONAH VILLA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20240208
Handler Name: JONAH VILLA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 018931235FLE
Last Updated Date: 20240222
Shipped Date: 20231123
Received Date: 20231207
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003260295
Generator Name: Jonah Villa
Generator Location Street Number: Not reported
Generator Location Street 1: 213 19TH ST UNIT 2
Generator Location Street 2: Not reported
Generator Location City: HUNTINGTON BEACH
Generator Location State: CA
Generator Location Zip: 92648
Generator Mail Street Number: Not reported
Generator Mail Street 1: 213 19TH ST UNIT 2

JONAH VILLA (Continued) **1028898616**

Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000002428
Designated Facility Name:	Copper Mountain Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	34853 E COUNTY 12TH ST
Designated Facility Mail City:	WELLTON
Designated Facility Mail Zip:	85356
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	34853 E COUNTY 12TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	WELLTON
Designated Facility Location Zip:	85356
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	018931235FLE
Transporter Line Number:	1
Transporter EPA ID:	CAL000432965
Transporter Name:	Jj&S Asbestos Removal Inc Dba Jj&S Construction

Manifest Tracking Number:	018931235FLE
Transporter Line Number:	2
Transporter EPA ID:	CAR000327627
Transporter Name:	Vls San Diego, Llc

Waste Line:

Manifest Tracking Number:	018931235FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	R.Q. Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	30
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N

JONAH VILLA (Continued) **1028898616**

Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	Not reported
Quantity Haz Tons:	Not reported
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

W210 **JONAH VILLA** **RCRA NonGen / NLR** **1028900100**
SE **213 19TH ST UNIT 1** **E MANIFEST** **CAC003261862**
1/8-1/4 **HUNTINGTON BEACH, CA 92648**
0.247 mi.
1303 ft. **Site 4 of 4 in cluster W**

Relative: **Lower**
Actual: **34 ft.**

RCRA Listings:

Date Form Received by Agency:	20240220
Handler Name:	Jonah Villa
Handler Address:	213 19th St Unit 1
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAC003261862
Contact Name:	JONAH VILLA
Contact Address:	213 19TH ST UNIT 1
Contact City,State,Zip:	HUNTINGTON BEACH, CA 92648
Contact Telephone:	949-742-1258
Contact Fax:	Not reported
Contact Email:	JONAH@TRADEWINDSEMS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

JONAH VILLA (Continued) **1028900100**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20250306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: JONAH VILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	213 19TH ST UNIT 1
Owner/Operator City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone:	949-742-1258
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: JONAH VILLA	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	213 19TH ST UNIT 1

JONAH VILLA (Continued) **1028900100**

Owner/Operator City,State,Zip: HUNTINGTON BEACH, CA 92648
Owner/Operator Telephone: 949-742-1258
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20231120
Handler Name: JONAH VILLA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20240219
Handler Name: JONAH VILLA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20240220
Handler Name: JONAH VILLA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

JONAH VILLA (Continued) **1028900100**

E MANIFEST:

Manifest Tracking Number:	018931258FLE
Last Updated Date:	20240222
Shipped Date:	20231123
Received Date:	20231207
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAC003261862
Generator Name:	Jonah Villa
Generator Location Street Number:	Not reported
Generator Location Street 1:	213 19TH ST UNIT 1
Generator Location Street 2:	Not reported
Generator Location City:	HUNTINGTON BEACH
Generator Location State:	CA
Generator Location Zip:	92648
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	213 19TH ST UNIT 1
Generator Mail Street 2:	Not reported
Generator Mail City:	HUNTINGTON BEACH
Generator Mail Zip:	92648
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000002428
Designated Facility Name:	Copper Mountain Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	34853 E COUNTY 12TH ST
Designated Facility Mail City:	WELLTON
Designated Facility Mail Zip:	85356
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	34853 E COUNTY 12TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	WELLTON
Designated Facility Location Zip:	85356
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	018931258FLE
Transporter Line Number:	1
Transporter EPA ID:	CAL000432965
Transporter Name:	Jj&S Asbestos Removal Inc Dba Jj&S Construction
Manifest Tracking Number:	018931258FLE
Transporter Line Number:	2
Transporter EPA ID:	CAR000327627
Transporter Name:	Vls San Diego, Llc

Waste Line:

Manifest Tracking Number:	018931258FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y

JONAH VILLA (Continued) **1028900100**

U.S. DOT ID Number:	NA2212
U.S. DOT Description:	R.Q. Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	30
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	1
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	0.84
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.84
Waste Quantity, in Kilograms:	761.9052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	761.9052
Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	Not reported
Quantity Haz Tons:	Not reported
Quantity Non Haz Kg:	761.9052
Quantity Non Haz Tons:	0.84
State Waste Codes:	CA-151

211
SE
1/4-1/2
0.312 mi.
1648 ft.

FORT APACHE
1810 PACIFIC COAST HWY
HUNTINGTON BEACH, C 92648

CPS-SLIC **S130391371**
Orange Co. Ind Site **N/A**
CERS

Relative:
Lower

Actual:
32 ft.

CPS-SLIC:

Name:	FORT APACHE
Address:	1810 PACIFIC COAST HIGHWAY
City,State,Zip:	HUNTINGTON BEACH, CA 92649
Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	06/27/2023
Global Id:	T10000021201
Lead Agency:	ORANGE COUNTY
Lead Agency Case Number:	23IC001
Latitude:	33.666
Longitude:	-118.01357
Case Type:	Cleanup Program Site
Case Worker:	TE

FORT APACHE (Continued) **S130391371**

Local Agency:	ORANGE COUNTY
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	06/27/2023
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	21-25%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Orange Co. Ind Site:

Name:	FORT APACHE
Address:	1810 PACIFIC COAST HWY
City,State,Zip:	HUNTINGTON BEACH, C 92648
Case ID:	23IC001
Record ID:	Not reported
Current Status:	OPEN
Closure Type:	Not reported
Released Chemical:	Not reported
Closed Date:	Not reported
File Location:	Geotracker

CERS:

Name:	FORT APACHE
Address:	1810 PACIFIC COAST HIGHWAY
City,State,Zip:	HUNTINGTON BEACH, CA 92649
Site ID:	870461
CERS ID:	T10000021201
CERS Description:	Cleanup Program Site

212
SE
1/4-1/2
0.370 mi.
1952 ft.

Relative:
Lower

Actual:
32 ft.

STATE LANDS COMMISSION
1700 PACIFIC COAST HWY
HUNTINGTON BEACH, CA 92648

Database(s): CPS-SLIC, UST, SWEEPS UST, HIST UST, CERS TANKS, Orange Co. Ind Site, CERS

EDR ID Number: U001577346
EPA ID Number: N/A

CPS-SLIC:

Name:	STATE LANDS COMMISSION
Address:	1700 PACIFIC COAST HWY
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/26/1988
Global Id:	T10000018002
Lead Agency:	ORANGE COUNTY LOP
Lead Agency Case Number:	88IC069
Latitude:	33.6651195
Longitude:	-118.0125018
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Warehouse
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	06/26/1988
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	06/26/1988
CA Water Watershed Name:	Not reported
Dwr Groundwater Subbasin Name:	Not reported
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	21-25%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Please refer to recent Site Documents or Monitoring Reports for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

ORANGE CO. UST:

Name:	STATE LANDS COMMISION
Address:	1700 PACIFIC COAST HWY

STATE LANDS COMMISSION (Continued) **U001577346**

City,State,Zip: HUNTINGTON BEACH 92648
Facility ID: FA0024508
SR Number: Not reported
Permit Number: Not reported
Latitude: Not reported
Longitude: Not reported

Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City,State,Zip: HUNTINGTON BEACH, CA 92648-3919
Facility ID: FA0024508
SR Number: Not reported
Permit Number: PR0024437
Latitude: 33.665030
Longitude: -118.012580

UST:
Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City,State,Zip: HUNTINGTON BEACH, CA 92648
Facility ID: FA0024508
Permitting Agency: Orange County Environmental Health
CERSID: 10724353
Latitude: 33.6649240
Longitude: -118.012540
Owner type: State Agency
Facility type: Other
Num of inuse ust: Not reported
Num of closed ust: 0
Num of oos ust: 0
Epa region: 9
Tribal lands: No
Tank owner name: State Lands Commission
Tank owner mailing address: 1700 Pacific Coast Highway
Tank owner mailing city: Huntington Beach
Tank owner mailing zip: 92648
Tank owner mailing state: CA
Tank operator name: State Lands Commission
Tank operator mailing address: 1700 Pacific Coast Highway
Tank operator mailing city: Huntington Beach
Tank operator mailing zip: 92648
Tank operator mailing state: CA
Tankidnumber: 1
Tank status: Renewal Permit
Tank configuration: One in a Compartmented Unit
Tank closure date: Not reported
Tank installation date: 3/1/1998 12:00:00 AM
Tank num of compartments: 2
Tank contents: Other Petroleum
Tank capacity gallons: 200
Tank type: Double Wall
Tank pc construction: Fiberglass
Tank pwpiping construction: Fiberglass
Tank piping type: Conventional Suction
Tank piping construction: Double Walled
Tank sacrificial anode: No
Tank cp impressed current: No

STATE LANDS COMMISSION (Continued) **U001577346**

Tank cp shutoff:	Yes
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

Name:	STATE LANDS COMMISSION
Address:	1700 PACIFIC COAST HWY
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	FA0024508
Permitting Agency:	Orange County Environmental Health
CERSID:	10724353
Latitude:	33.6649240
Longitude:	-118.012540
Owner type:	State Agency
Facility type:	Other
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	State Lands Commission
Tank owner mailing address:	1700 Pacific Coast Highway
Tank owner mailing city:	Huntington Beach
Tank owner mailing zip:	92648
Tank owner mailing state:	CA
Tank operator name:	State Lands Commission
Tank operator mailing address:	1700 Pacific Coast Highway
Tank operator mailing city:	Huntington Beach
Tank operator mailing zip:	92648
Tank operator mailing state:	CA
Tankidnumber:	2
Tank status:	Renewal Permit
Tank configuration:	One in a Compartmented Unit
Tank closure date:	Not reported
Tank installation date:	1/1/1998 12:00:00 AM
Tank num of compartments:	2
Tank contents:	Used Oil
Tank capacity gallons:	300
Tank type:	Double Wall
Tank pc construction:	Fiberglass
Tank pwpiping construction:	Fiberglass
Tank piping type:	Gravity
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

SWEEPS UST:

Name:	STATE LANDS COMMISSION
Address:	1700 PACIFIC COAST HWY
City:	HUNTINGTON BEACH
Status:	Active
Comp Number:	6639
Number:	9

STATE LANDS COMMISSION (Continued) **U001577346**

Board Of Equalization: 44-016511
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-006639-000001
Tank Status: A
Capacity: 150
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: 3

Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City: HUNTINGTON BEACH
Status: Active
Comp Number: 6639
Number: 9
Board Of Equalization: 44-016511
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-006639-000002
Tank Status: A
Capacity: 150
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: OTHER
Number Of Tanks: Not reported

Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City: HUNTINGTON BEACH
Status: Active
Comp Number: 6639
Number: 9
Board Of Equalization: 44-016511
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-006639-000003
Tank Status: A
Capacity: 450
Active Date: Not reported
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY

STATE LANDS COMMISSION (Continued) **U001577346**

City,State,Zip: HUNTINGTON BEACH, CA 92648
File Number: 0002ee8e

URL:
Region: STATE
Facility ID: 00000015826
Facility Type: Other
Other Type: LABORATORY
Contact Name: R. D. SNYDER
Telephone: 7145363018
Owner Name: STATE LANDS COMMISSION
Owner Address: 1700 PACIFIC COAST HWY.
Owner City,St,Zip: HUNTINGTON BEACH, CA 92648
Total Tanks: 0003

Tank Num: 001
Container Num: 1
Year Installed: 1983
Tank Capacity: 00000150
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 14
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 3
Year Installed: 1950
Tank Capacity: 00000420
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 2
Year Installed: 1983
Tank Capacity: 00000150
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 14
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CERS TANKS:
Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 416832
CERS ID: 10724353
CERS Description: Underground Storage Tank

Orange Co. Ind Site:
Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City,State,Zip: HUNTINGTON BEACH, CA 92648

STATE LANDS COMMISSION (Continued) **U001577346**

Case ID: 88IC069
Record ID: RO0000153
Current Status: CLOSED
Closure Type: Closed pre 1994, file review required to determine closure type
Released Chemical: ORGANIC COMPOUNDS
Closed Date: 6/26/1988
File Location: Not reported

CERS:
Name: STATE LANDS COMMISSION
Address: 1700 PACIFIC COAST HWY
City,State,Zip: HUNTINGTON BEACH, CA 92648
Site ID: 416832
CERS ID: 10724353
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 416832
Site Name: STATE LANDS COMMISSION
Violation Date: 09-29-2021
Citation: HSC 6.7 25291(a)(2) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(2)
Violation Description: Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes: Returned to compliance on 07/22/2022. The Waste Oil/Solvent sump and (new) Solvent product line failed during testing. Please submit plans for repair of the failed components immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 416832
Site Name: STATE LANDS COMMISSION
Violation Date: 09-17-2019
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: Returned to compliance on 11/18/2019. OBSERVATION: Owner/Operator failed to meet one or more of the following spill container requirements: install or maintain spill container which is liquid-tight and/or has a functional drain valve or other method for the removal of liquid from the spill container. CORRECTIVE ACTION: Install or repair spill buckets to meet all of the listed requirements, have tightness tested using approved method, by certified UST service technician, and submit documentation to verfiy

STATE LANDS COMMISSION (Continued) **U001577346**

compliance. Maintain all testing records for 36 months. Do so within 30 days from receipt of this report.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 416832
Site Name: STATE LANDS COMMISSION
Violation Date: 09-27-2022
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 03/25/2024. Facility does not have secondarily contained vent piping for the Waste Oil tank in accordance with 23 CCR 2636(a)(1).
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 416832
Site Name: STATE LANDS COMMISSION
Violation Date: 09-21-2015
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes: Returned to compliance on 09/21/2015. The waste oil spill bucket initially failed the water test because it did dot hold liquid without having it drain into the tank . The drain was cleaned and it passed
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 416832
Site Name: STATE LANDS COMMISSION
Violation Date: 09-27-2023
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Returned to compliance on 03/25/2024. Facility UST permit was not renewed due to the outstanding violation cited on 9/29/2021.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed open violations, facility has not been pushed to CERS on this date sent Email to Michael P to push data.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

STATE LANDS COMMISSION (Continued) **U001577346**

Eval General Type: Other/Unknown
Eval Date: 02-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CFR accepted in portal. Notes to own/op: Please maintain documentation for the government guarantee mechanism on site as required by CFR 280.106 and make it available for review during inspections.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-21-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review site compliance prior to permitting. Violation outstanding: (I582) for nonsubmittal of UST docs. Recommend: send Permit Warning Letter.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted Esubmit DO is John Larson with Tait Env
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted CERS submittal for facilities page.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Change UST status to not get a permit, per Negro.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-04-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to Dan on this date why he will not be receiving a permit.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

STATE LANDS COMMISSION (Continued) **U001577346**

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review of file for HB FIre Janice
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-16-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Secondary Containment testing and Overfill Prevention testing for the solvent tank were also conducted on this date. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent tank is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS: - Waste Oil & Solvent Mixture (300 gal) / Solvent Product (200 gal) compartmentalized tank. MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 PIPING/FILL SUMPS: - VR-208 OVERFILL: - Flapper Valve (Solvent product) - Solenoid/ball valve used as positive shut off (Waste Oil/Solvent) Spill buckets were tested hydrostatically. All liquid detection sensors were tested on
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector Comments: On site to witness annual monitor certification. Technician from who certified the monitoring system has ICC Certification and Veeder-Root Certified Facility contains: Split tank solvent and waste oil. Monitor is a Veeder-Root and reads all functions normal. Alarm history and setup tape reviewed while on site. Inspected all open top sumps. Documents available for review: 1) Permit 2) Maintenance and Testing records: -- Previous Monitoring System Certification conducted on 9/23/13 -- Previous Secondary Testing conducted on 10/30/12 3) Designated Operator monthly inspection reports. --Alarm history is attached --Alarm log is up to date and available. 4) Training Records 5) Owner/ Operator Agreement Please submit a copy of Monitor Certification to this agency within 30

STATE LANDS COMMISSION (Continued) **U001577346**

days. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-08-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an off site inspection to follow up on the routine UST inspection conducted on 9/29/2021. The following violation remains outstanding and must be corrected immediately: - I382: Failure to maintain secondary containment (e.g. failure of secondary containment testing). Please submit plans for repair of the failed components immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-09-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted CERS Facility Information Page.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Status changed to receive a permit, per Negro.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-22-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received a copy of the Secondary Containment test results dated 6/28/22 for the Waste Oil Fill Sump and Solvent Tank Secondary Product Line. Both components PASSED testing. Violation I382 has been corrected. There are no remaining outstanding violations for this facility.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine the UST inspection, monitoring system

STATE LANDS COMMISSION (Continued) **U001577346**

certification, and spill bucket testing. Testing of monitoring equipment was performed by Jon Larson of Tait Environmental. Mr. Larson s ICC and Veeder-Root certifications were current. Also present was Dan Folk of the State Lands Commission. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. All monitoring equipment passed testing. The following documents were available for review: - Permit to operate - Tank information - Monitoring plan - Site plot plan - Leak response plan (posted by monitoring panel) - Maintenance records - DO monthly reports - Test results (Annual Certification & SB989) - Training [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-18-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the annual monitoring certification test, spill bucket test, and SB989 test conducted by Tait Environmental. All monitoring equipment tested passed on the testing date.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Mike Shigley. Testing of monitoring equipment was performed by Patrick Banbury of Tait Environmental. Mr. Banbury s ICC and Veeder-Root certifications were current. This inspector did not observe all testing conducted by the technician. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-3300C system. The monitor is operational for audible and visual alarms. The waste oil tank has an in-tank probe and the solvent/cutting oil tank has a flapper. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. Monitoring certification test, including spill bucket, all passed. The following documents were available for review: - Permit to operate - Tank information - Monitoring [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-18-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the retest for the spill bucket that failed on 9/17/19. Tait

STATE LANDS COMMISSION (Continued) **U001577346**

Environmental conducted the replacement and testing of the spill bucket. The spill bucket was replaced, retested, and passed on 10/30/2019. Violation I355 has been abated.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-21-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitor System Certification conducted on 9/14/17 Comments; -- No flapper in the waste tank, Flapper in the oil tank. Audible can be heard from fill point Included in report; -- Site Plan -- Spill bucket report form -- Test tape
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Mark Sutphin at site for annual monitor certification testing and to review UST compliance documents. Permission to enter, inspect and taker photographs granted by Mike Shigley. The monitor certification and SB989 testing was performed by Stephen Graham of Tait Env and his certifications were up to date. Designated operator reports were reviewed and in good order. Reviewed UST compliance notebook at site 1) Business Owner/Operator ID Page 2) Business Activities Page 3) Designated Operator Notification Page 4) UST Operating Permit-Facility Information 5) UST Operating Permit-Tank Information 6) UST Monitoring Plan 7) UST Leak Response Plan 8) Monitoring Plot Plan 9) Training records 10) SB989 test results 10-30-12 and performed today 2015-2017 UST permit posted at site The UST Leak Response Plan was posted by the monitoring panel Monthly DO reports reviewed at site. The Tank system passed Monitor certification testing this date. The waste oil spill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Overfill

STATE LANDS COMMISSION (Continued) **U001577346**

Prevention and Secondary Containment testing was also conducted on this date. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Tank is a compartmentalized double-walled tank. TANKS: - Waste Oil & Solvent (300 gal)/Solvent (200 gal) compartmentalized MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 FILL/STP: - VR-208 UDC: - VR-208 LLD: N/A OVERFILL: - Flapper Valve Spill buckets were tested hydrostatically. All liquid detection sensors were tested on site. Fail safe, positive shutdown, and sensor out were verified. Facility has submitted to CERS and is EXEMPT from providing a Certificate of Financial Responsibility per 40 CFR 280.90(c). The following documents were [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On this date requested from Tait that monitor certification indicated flapper on solvent. Received the updated MC Form. Sent to file.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-25-2023
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received a copy of the following test results dated 9/27/2023: - Monitoring System Certification - Spill Buckets All components were tested and PASSED.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-18-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: acility has submitted Electronically via Portal Violation I582 has been corrected. Request that site will be issued a permit. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

STATE LANDS COMMISSION (Continued) **U001577346**

Eval General Type: Other/Unknown
Eval Date: 07-29-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: E-submit submission has been declined due to the following: UST- Tank -- Each compartment requires tank page, please fill out 2-tank pages. -- Over fill protection for solvent tank is a fill tube shut off valve and overfill for oil is in tank probe Each compartment requires tank page, please fill out 2-tank pages. UST Monitoring Plan III. Please upload Site Plot Plan with associated pipping. V. Pipe Monitoring - - Please fill out the Panel manufacture and model number -- Please fill out the Leak Sensor Manufacturer and model number. -- If suction piping please mark suction
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: -submit submission has been declined due to the following: Tanks page: One of the tank pages is missing: -- ID # -- Number of compartments --- Tank use and contents section IV section V Section VII Section VII Section XII
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Dan Folk of State Lands Commission. Testing of monitoring equipment was performed by Adolfo Aguilar of Tait Environmental. Mr. Aguilar s ICC and Veeder-Root certifications were current. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. Monitoring certification test, including spill bucket, all passed. The following documents were available for review: - Permit to operate - Tank information - Monitoring plan - Site plot plan - Leak response plan (posted by monitoring panel) - Maintenance records - DO monthly reports - Test results (Annual [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-14-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitor certification. Technician Richard

STATE LANDS COMMISSION (Continued) **U001577346**

from Tait who certified the monitoring system has ICC Certification and Veeder-Root Certified Facility contains: Split tank UST. 208 sensors in the sumps and 420 in the annular. Monitor is a Veeder-Root and reads all functions normal. Alarm history and setup tape reviewed while on site. Inspected all open top sumps. Documents available for review: 1) Permit 2) Maintenance and Testing records: -- Previous Monitoring System Certification conducted on 9/19/17 -- Previous Secondary Testing conducted on 9/21/25 3) Designated Operator monthly inspection reports. -- Alarm history is attached -- Training Help Dan on this date on his CERS submittal Please submit a copy of Monitor Certification to this agency within 30 days.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine the UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Jon Larson of Tait Environmental. Mr. Larson s ICC and Veeder-Root certifications were current. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. All monitoring equipment with the exception of the spill bucket for the used oil UST passed. Please change out spill bucket (like for like) and retest. Notify this agency within 48 hours of the retest. The following documents were available for review: - Permit to operate - Tank information - Monitoring plan - Site plot plan - Leak response plan (posted by monitoring [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitor System Certification for testing conducted on 9/19/16. Comments: No flapper installed in the waste tank, flapper installed in oil tank. No outside overfill alarm installed. Audible can be heard from fill point. Suction System for the solvent. Gravity feed for the waste oil. Included in report: -- Site plan -- Spill bucket report form -- Test tape .

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill

STATE LANDS COMMISSION (Continued) **U001577346**

Bucket testing, and conduct a routine UST inspection. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS: - Waste Oil & Solvent Mixture (300 gal) / Solvent Product (200 gal) compartmentalized tank. MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 PIPING/FILL SUMPS: - VR-208 OVERFILL: - Flapper Valve (Solvent product) Spill buckets were tested hydrostatically. All liquid detection sensors were tested on site. Facility has submitted to CERS and is EXEMPT from providing a Certificate of Financial Responsibility per 40 CFR 280.90(c). The following documents were available for review: - Permit to Operate

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-21-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the monitoring certification report from Tait Environmental. Monitoring system testing was conducted on 9/2/2020. All equipment and sensors associated with the underground tanks passed testing.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-22-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitoring certification report and the spill bucket testing report conducted by Tait Environmental. All components of the monitoring system passed. The spill bucket on the Hazardous Waste tank failed. It is scheduled to be replaced and retested on 10/30/2019.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-31-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received a copy of the following test results dated 9/27/2022: - Monitoring System Certification - Spill Buckets All components were tested and PASSED.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-28-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Answered question on why this agency will not receive a permit. Due to

STATE LANDS COMMISSION (Continued) **U001577346**

not electronically submitted.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-08-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: follow up on Dan's password. He keeps locking himself out. Request that he have it reset again. Hi Jennifer, His record appears to be fixed. I sent him a new password right after our staff meeting. I think that he is not inputting his password correctly and is locking himself out. I ve advised him to copy and paste both his username and password in order to prevent problems. From: ESubmit Sent: Thursday, June 04, 2015 11:12 AM To: 'dan.folk@slc.ca.gov' Subject: E-submit access Hi Dan, I just checked and your record is still active. I think you may be having a problem with your password. I just sent you a new password. Please copy and paste the information into the fields. Lisa
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Facility has received a Do not Permit letter due to facility out of compliance. Letter Sent to file .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-26-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Rejected portal submittal is conditionally accepted prior to CERS transfer: This submittal is being conditionally approved in order to facilitate transfer of data to California Electronic Reporting System (CERS) database. Do not make any additional submittals to the eSubmit portal. All future submittals must be made to the CERS database _____ E-submit submission has been declined due to the following: Tanks page: One of the tank pages is missing: -- ID # -- Number of compartments --- Tank use and contents section IV section V Section VII Section VII Section XII
Eval Division: Orange County Environmental Health
Eval Program: UST

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-02-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor Certification Notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Prep for inspection.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Patrick Banbury of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS:
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Emailed inspection report to facility. Reminded facility that their electronic submittal for UST has not been approved. It is currently conditionally accepted for data transfer purpose.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitoring System Certification for testing conducted on 9/21/15 by Tait Env. And Secondary Containment Testing Report Form Monitoring System Certification: Comments; No flapper installed in waste tank, flapper installed in oil tank. no outside overfill alarm installed. Audible can be heard form fill point. Suction system. Included in report: -- UST Monitoring site Plan -- Spill Bucket

STATE LANDS COMMISSION (Continued) **U001577346**

Testing Report Form Secondary Testing Report form: The following Tested and passed: -- Annular -- Oil Sump -- Waste Sump -- Oil secondary -- Waste Secondary \\ Both testing Passed. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-15-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following test report dated 9/29/2021: - Monitoring System Certification - Spill Buckets - Overfill Prevention - Flapper Valve (Solvent Tank only; OF exempt for Waste Solvent) - Secondary Containment - Tank Secondary - Piping Secondary (Solvent, Waste) - Piping Sump (Solvent, Waste) The following components FAILED testing: - Piping Secondary (Solvent) - Piping Sump (Waste) All other components were tested and PASSED.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: printed out report.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-16-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an off site inspection to follow up on the routine UST inspection conducted on 9/29/2021 and the off site follow up report issued on 11/8/2021. The following violation remains outstanding and must be corrected immediately: - I382: Failure to maintain secondary containment (e.g. failure of secondary containment testing). Please submit plans for repair of the failed secondary containment of the waste oil/solvent piping sump and new solvent product piping immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days. Failure to comply with UST laws/regulations may result in enforcement action(s).
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Coordinates:
Site ID: 416832
Facility Name: STATE LANDS COMMISSION
Env Int Type Code: CPS
Program ID: T10000018002
Coord Name: Not reported
Ref Point Type Desc: Unknown,

STATE LANDS COMMISSION (Continued) **U001577346**

Latitude: 33.665120
Longitude: -118.012501

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Document Preparer
Entity Name: Dan Folk
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Tank Operator
Entity Name: STATE LANDS COMMISSION
Entity Title: Not reported
Affiliation Address: 1700 Pacific Coast Highway
Affiliation City: Huntington Beach
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92648
Affiliation Phone: (714) 536-3018,

Affiliation Type Desc: UST Permit Applicant
Entity Name: Dan Folk
Entity Title: mineral Inspector III
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 536-3018,

Affiliation Type Desc: Environmental Contact
Entity Name: Dan Folk
Entity Title: Not reported
Affiliation Address: 1700 Pacific Coast Highway
Affiliation City: Huntington Beach
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92648
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

STATE LANDS COMMISSION (Continued) **U001577346**

Affiliation Address:	1700 PACIFIC COAST HWY
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92648
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	200 OCEANGATE FL 12
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90802
Affiliation Phone:	(562) 590-5201,
Affiliation Type Desc:	Parent Corporation
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	State Lands Comission
Entity Title:	Not reported
Affiliation Address:	1700 Pacific Coast Highway
Affiliation City:	Huntington Beach
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,
Affiliation Type Desc:	Identification Signer
Entity Name:	Dan Folk
Entity Title:	Dan Folk
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	California State Lands Commission
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 536-3018,

STATE LANDS COMMISSION (Continued) **U001577346**

Affiliation Type Desc:	Property Owner
Entity Name:	CA State Lands Commission
Entity Title:	Not reported
Affiliation Address:	1700 PACIFIC COAST HWY
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	1700 Pacific Coast Highway
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,

Name:	STATE LANDS COMMISSION
Address:	1700 PACIFIC COAST HWY
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	416832
CERS ID:	T10000018002
CERS Description:	Cleanup Program Site

Violations:

Site ID:	416832
Site Name:	STATE LANDS COMMISSION
Violation Date:	09-29-2021
Citation:	HSC 6.7 25291(a)(2) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(2)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 07/22/2022. The Waste Oil/Solvent sump and (new) Solvent product line failed during testing. Please submit plans for repair of the failed components immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	416832
Site Name:	STATE LANDS COMMISSION
Violation Date:	09-17-2019
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes,

STATE LANDS COMMISSION (Continued) **U001577346**

	engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	Returned to compliance on 11/18/2019. OBSERVATION: Owner/Operator failed to meet one or more of the following spill container requirements: install or maintain spill container which is liquid-tight and/or has a functional drain valve or other method for the removal of liquid from the spill container. CORRECTIVE ACTION: Install or repair spill buckets to meet all of the listed requirements, have tightness tested using approved method, by certified UST service technician, and submit documentation to verfiy compliance. Maintain all testing records for 36 months. Do so within 30 days from receipt of this report.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	416832
Site Name:	STATE LANDS COMMISSION
Violation Date:	09-27-2022
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 03/25/2024. Facility does not have secondarily contained vent piping for the Waste Oil tank in accordance with 23 CCR 2636(a)(1).
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	416832
Site Name:	STATE LANDS COMMISSION
Violation Date:	09-21-2015
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes:	Returned to compliance on 09/21/2015. The waste oil spill bucket initially failed the water test because it did dot hold liquid without having it drain into the tank . The drain was cleaned and it passed
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	416832
Site Name:	STATE LANDS COMMISSION
Violation Date:	09-27-2023
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	Returned to compliance on 03/25/2024. Facility UST permit was not renewed due to the outstanding violation cited on 9/29/2021.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

STATE LANDS COMMISSION (Continued) **U001577346**

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-18-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed open violations, facility has not been pushed to CERS on this date sent Email to Michael P to push data.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CFR accepted in portal. Notes to own/op: Please maintain documentation for the government guarantee mechanism on site as required by CFR 280.106 and make it available for review during inspections.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-21-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review site compliance prior to permitting. Violation outstanding: (I582) for nonsubmittal of UST docs. Recommend: send Permit Warning Letter.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-04-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted Esubmit DO is John Larson with Tait Env
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-19-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted CERS submittal for facilities page.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Change UST status to not get a permit, per Negro.
Eval Division: Orange County Environmental Health

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-04-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to Dan on this date why he will not be receiving a permit.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review of file for HB FIre Janice
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-16-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Secondary Containment testing and Overfill Prevention testing for the solvent tank were also conducted on this date. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent tank is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS: - Waste Oil & Solvent Mixture (300 gal) / Solvent Product (200 gal) compartmentalized tank. MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 PIPING/FILL SUMPS: - VR-208 OVERFILL: - Flapper Valve (Solvent product) - Solenoid/ball valve used as positive shut off (Waste Oil/Solvent) Spill buckets were tested hydrostatically. All liquid detection sensors were tested on
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-22-2014
Violations Found: No
Eval Type: Routine done by local agency

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Notes: Inspector Comments: On site to witness annual monitor certification. Technician from who certified the monitoring system has ICC Certification and Veeder-Root Certified Facility contains: Split tank solvent and waste oil. Monitor is a Veeder-Root and reads all functions normal. Alarm history and setup tape reviewed while on site. Inspected all open top sumps. Documents available for review: 1) Permit 2) Maintenance and Testing records: -- Previous Monitoring System Certification conducted on 9/23/13 -- Previous Secondary Testing conducted on 10/30/12 3) Designated Operator monthly inspection reports. -- Alarm history is attached --Alarm log is up to date and available. 4) Training Records 5) Owner/ Operator Agreement Please submit a copy of Monitor Certification to this agency within 30 days. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-08-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an off site inspection to follow up on the routine UST inspection conducted on 9/29/2021. The following violation remains outstanding and must be corrected immediately: - I382: Failure to maintain secondary containment (e.g. failure of secondary containment testing). Please submit plans for repair of the failed components immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-09-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Accepted CERS Facility Information Page.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Status changed to receive a permit, per Negro.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-22-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received a copy of the Secondary Containment test results dated 6/28/22 for the Waste Oil Fill Sump and Solvent Tank

STATE LANDS COMMISSION (Continued) **U001577346**

Secondary Product Line. Both components PASSED testing. Violation I382 has been corrected. There are no remaining outstanding violations for this facility.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine the UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Jon Larson of Tait Environmental. Mr. Larson s ICC and Veeder-Root certifications were current. Also present was Dan Folk of the State Lands Commission. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. All monitoring equipment passed testing. The following documents were available for review: - Permit to operate - Tank information - Monitoring plan - Site plot plan - Leak response plan (posted by monitoring panel) - Maintenance records - DO monthly reports - Test results (Annual Certification & SB989) - Training [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-18-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the annual monitoring certification test, spill bucket test, and SB989 test conducted by Tait Environmental. All monitoring equipment tested passed on the testing date.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENT: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Mike Shigley. Testing of monitoring equipment was performed by Patrick Banbury of Tait Environmental. Mr. Banbury s ICC and Veeder-Root certifications were current. This inspector did not observe all testing conducted by the technician. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-3300C system. The monitor is operational for audible and visual alarms. The waste oil tank has an in-tank probe and the solvent/cutting oil tank has a flapper. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. Monitoring

STATE LANDS COMMISSION (Continued) **U001577346**

certification test, including spill bucket, all passed. The following documents were available for review: - Permit to operate - Tank information - Monitoring [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-18-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the retest for the spill bucket that failed on 9/17/19. Tait Environmental conducted the replacement and testing of the spill bucket. The spill bucket was replaced, retested, and passed on 10/30/2019. Violation I355 has been abated.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-21-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitor System Certification conducted on 9/14/17 Comments; -- No flapper in the waste tank, Flapper in the oil tank. Audible can be heard from fill point Included in report; -- Site Plan -- Spill bucket report form -- Test tape

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Mark Sutphin at site for annual monitor certification testing and to review UST compliance documents. Permission to enter, inspect and taker photographs granted by Mike Shigley. The monitor certification and SB989 testing was performed by Stephen Graham of Tait Env and his certifications were up to date. Designated operator reports were reviewed and in good order. Reviewed UST compliance notebook at site 1) Business Owner/Operator ID Page 2) Business Activities Page 3) Designated Operator Notification Page 4) UST Operating Permit-Facility Information 5) UST Operating Permit-Tank Information 6) UST Monitoring Plan 7) UST Leak Response Plan 8) Monitoring Plot Plan 9) Training records 10) SB989 test results 10-30-12 and performed today 2015-2017 UST permit posted at site The UST Leak Response Plan was posted by the monitoring panel Monthly DO reports reviewed at site. The Tank

STATE LANDS COMMISSION (Continued) **U001577346**

system passed Monitor certification testing this date. The waste oil spill [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Overfill Prevention and Secondary Containment testing was also conducted on this date. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Tank is a compartmentalized double-walled tank. TANKS: - Waste Oil & Solvent (300 gal)/Solvent (200 gal) compartmentalized MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 FILL/STP: - VR-208 UDC: - VR-208 LLD: N/A OVERFILL: - Flapper Valve Spill buckets were tested hydrostatically. All liquid detection sensors were tested on site. Fail safe, positive shutdown, and sensor out were verified. Facility has submitted to CERS and is EXEMPT from providing a Certificate of Financial Responsibility per 40 CFR 280.90(c). The following documents were [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On this date requested from Tait that monitor certification indicated flapper on solvent. Received the updated MC Form. Sent to file.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-25-2023
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received a copy of the following test results dated 9/27/2023: - Monitoring System Certification - Spill Buckets All components were tested and PASSED.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-18-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: acility has submitted Electronically via Portal Violation I582 has been corrected. Request that site will be issued a permit. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-29-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: E-submit submission has been declined due to the following: UST- Tank -- Each compartment requires tank page, please fill out 2-tank pages. -- Over fill protection for solvent tank is a fill tube shut off valve and overfill for oil is in tank probe Each compartment requires tank page, please fill out 2-tank pages. UST Monitoring Plan III. Please upload Site Plot Plan with associated pipping. V. Pipe Monitoring - - Please fill out the Panel manufacture and model number -- Please fill out the Leak Sensor Manufacturer and model number. -- If suction piping please mark suction
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 02-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: -submit submission has been declined due to the following: Tanks page: One of the tank pages is missing: -- ID # -- Number of compartments --- Tank use and contents section IV section V Section VII Section VII Section XII
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-11-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine UST inspection, monitoring system certification, and spill bucket testing. Consent to inspect was given by Dan Folk of State Lands Commission. Testing of monitoring equipment was performed by Adolfo Aguilar of Tait Environmental. Mr. Aguilar s ICC and Veeder-Root certifications were current. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. Monitoring certification test, including spill bucket, all passed. The following documents were available for review: - Permit to operate - Tank information -

STATE LANDS COMMISSION (Continued) **U001577346**

Monitoring plan - Site plot plan - Leak response plan (posted by monitoring panel) - Maintenance records - DO monthly reports - Test results (Annual [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-14-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to witness annual monitor certification. Technician Richard from Tait who certified the monitoring system has ICC Certification and Veeder-Root Certified Facility contains: Split tank UST. 208 sensors in the sumps and 420 in the annular. Monitor is a Veeder-Root and reads all functions normal. Alarm history and setup tape reviewed while on site. Inspected all open top sumps. Documents available for review: 1) Permit 2) Maintenance and Testing records: -- Previous Monitoring System Certification conducted on 9/19/17 -- Previous Secondary Testing conducted on 9/21/25 3) Designated Operator monthly inspection reports. -- Alarm history is attached -- Training Help Dan on this date on his CERS submittal Please submit a copy of Monitor Certification to this agency within 30 days.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine the UST inspection, monitoring system certification, and spill bucket testing. Testing of monitoring equipment was performed by Jon Larson of Tait Environmental. Mr. Larson s ICC and Veeder-Root certifications were current. The facility has two split double-walled tanks (solvent/cutting oil and waste oil) monitored by a Veeder Root TLS-300C system. The waste oil tank has a flapper and the solvent/cutting oil tank has an ATG for overfill. Alarm history and set-up tape was reviewed while on site. The sumps have VR-208 sensors and the annular has a VR-420 sensor. All monitoring equipment with the exception of the spill bucket for the used oil UST passed. Please change out spill bucket (like for like) and retest. Notify this agency within 48 hours of the retest. The following documents were available for review: - Permit to operate - Tank information - Monitoring plan - Site plot plan - Leak response plan (posted by monitoring [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitor System Certification for testing conducted on 9/19/16. Comments: No flapper installed in the waste tank, flapper installed in oil tank. No outside overfill alarm installed. Audible

STATE LANDS COMMISSION (Continued) **U001577346**

can be heard from fill point. Suction System for the solvent. Gravity feed for the waste oil. Included in report: -- Site plan -- Spill bucket report form -- Test tape .

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Jon Larsen of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS: - Waste Oil & Solvent Mixture (300 gal) / Solvent Product (200 gal) compartmentalized tank. MONITORING PANEL: - TLS-300C ANNULAR: - VR-420 PIPING/FILL SUMPS: - VR-208 OVERFILL: - Flapper Valve (Solvent product) Spill buckets were tested hydrostatically. All liquid detection sensors were tested on site. Facility has submitted to CERS and is EXEMPT from providing a Certificate of Financial Responsibility per 40 CFR 280.90(c). The following documents were available for review: - Permit to Operate

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-21-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the monitoring certification report from Tait Environmental. Monitoring system testing was conducted on 9/2/2020. All equipment and sensors associated with the underground tanks passed testing.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-22-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitoring certification report and the spill bucket testing report conducted by Tait Environmental. All components of the monitoring system passed. The spill bucket on the Hazardous Waste tank failed. It is scheduled to be replaced and retested on 10/30/2019.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-31-2022
Violations Found: No
Eval Type: Other, not routine, done by local agency

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Notes: This Agency has received a copy of the following test results dated 9/27/2022: - Monitoring System Certification - Spill Buckets All components were tested and PASSED.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-28-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Answered question on why this agency will not receive a permit. Due to not electronically submitted.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Huntington Beach Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-08-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: follow up on Dan’s password. He keeps locking himself out. Request that he have it reset again. Hi Jennifer, His record appears to be fixed. I sent him a new password right after our staff meeting. I think that he is not inputting his password correctly and is locking himself out. I ve advised him to copy and paste both his username and password in order to prevent problems. From: ESubmit Sent: Thursday, June 04, 2015 11:12 AM To: ’dan.folk@slc.ca.gov’ Subject: E-submit access Hi Dan, I just checked and your record is still active. I think you may be having a problem with your password. I just sent you a new password. Please copy and paste the information into the fields. Lisa
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Facility has received a Do not Permit letter due to facility out of compliance. Letter Sent to file .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-26-2016
Violations Found: No

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Type: Other, not routine, done by local agency
Eval Notes: Rejected portal submittal is conditionally accepted prior to CERS transfer: This submittal is being conditionally approved in order to facilitate transfer of data to California Electronic Reporting System (CERS) database. Do not make any additional submittals to the eSubmit portal. All future submittals must be made to the CERS database _____ E-submit submission has been declined due to the following: Tanks page: One of the tank pages is missing: -- ID # -- Number of compartments --- Tank use and contents section IV section V Section VII Section VII Section XII
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-02-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor Certification Notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 09-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Prep for inspection.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness Annual Monitoring System Certification, Spill Bucket testing, and conduct a routine UST inspection. Consent to enter and inspect granted by Dan Folk, Mineral Resources Inspector. Testing was conducted with Patrick Banbury of Tait Environmental. Technician certifications (ICC, VR, VMI) verified. Waste Oil/Solvent is a gravity double-walled tank with single-walled vent piping. Solvent product is a conventional suction double-walled tank with single-walled vent piping. TANKS:
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Emailed inspection report to facility. Reminded facility that their electronic submittal for UST has not been approved. It is currently conditionally accepted for data transfer purpose.
Eval Division: Orange County Environmental Health
Eval Program: UST

STATE LANDS COMMISSION (Continued) **U001577346**

Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received the Monitoring System Certification for testing conducted on 9/21/15 by Tait Env. And Secondary Containment Testing Report Form Monitoring System Certification: Comments; No flapper installed in waste tank, flapper installed in oil tank. no outside overfill alarm installed. Audible can be heard form fill point. Suction system. Included in report: -- UST Monitoring site Plan -- Spill Bucket Testing Report Form Secondary Testing Report form: The following Tested and passed: -- Annular -- Oil Sump -- Waste Sump -- Oil secondary -- Waste Secondary \\ Both testing Passed. .
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-15-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency has received the following test report dated 9/29/2021: - Monitoring System Certification - Spill Buckets - Overfill Prevention - Flapper Valve (Solvent Tank only; OF exempt for Waste Solvent) - Secondary Containment - Tank Secondary - Piping Secondary (Solvent, Waste) - Piping Sump (Solvent, Waste) The following components FAILED testing: - Piping Secondary (Solvent) - Piping Sump (Waste) All other components were tested and PASSED.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: printed out report.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-16-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an off site inspection to follow up on the routine UST inspection conducted on 9/29/2021 and the off site follow up report issued on 11/8/2021. The following violation remains outstanding and must be corrected immediately: - I382: Failure to maintain secondary containment (e.g. failure of secondary containment testing). Please submit plans for repair of the failed secondary containment of the waste oil/solvent piping sump and new solvent product piping immediately. If the scope of repair does not require plan check, please schedule retesting immediately and submit passing test results to this Agency within 30 days. Failure to comply with UST

STATE LANDS COMMISSION (Continued) **U001577346**

laws/regulations may result in enforcement action(s).

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS,

Coordinates:
Site ID: 416832
Facility Name: STATE LANDS COMMISSION
Env Int Type Code: CPS
Program ID: T10000018002
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 33.665120
Longitude: -118.012501

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406,

Affiliation Type Desc: Document Preparer
Entity Name: Dan Folk
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Tank Operator
Entity Name: STATE LANDS COMMISSION
Entity Title: Not reported
Affiliation Address: 1700 Pacific Coast Highway
Affiliation City: Huntington Beach
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92648
Affiliation Phone: (714) 536-3018,

Affiliation Type Desc: UST Permit Applicant
Entity Name: Dan Folk
Entity Title: mineral Inspector III
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 536-3018,

STATE LANDS COMMISSION (Continued) **U001577346**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Dan Folk
Entity Title:	Not reported
Affiliation Address:	1700 Pacific Coast Highway
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92648
Affiliation Phone:	,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1700 PACIFIC COAST HWY
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92648
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	200 OCEANGATE FL 12
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90802
Affiliation Phone:	(562) 590-5201,

Affiliation Type Desc:	Parent Corporation
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	State Lands Comission
Entity Title:	Not reported
Affiliation Address:	1700 Pacific Coast Highway
Affiliation City:	Huntington Beach
Affiliation State:	Not reported
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,

Affiliation Type Desc:	Identification Signer
Entity Name:	Dan Folk
Entity Title:	Dan Folk
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

STATE LANDS COMMISSION (Continued) **U001577346**

Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	California State Lands Commission
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 536-3018,
Affiliation Type Desc:	Property Owner
Entity Name:	CA State Lands Commission
Entity Title:	Not reported
Affiliation Address:	1700 PACIFIC COAST HWY
Affiliation City:	HUNTINGTON BEACH
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,
Affiliation Type Desc:	UST Tank Owner
Entity Name:	STATE LANDS COMMISSION
Entity Title:	Not reported
Affiliation Address:	1700 Pacific Coast Highway
Affiliation City:	Huntington Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92648
Affiliation Phone:	(714) 536-3018,

213
SE
1/4-1/2
0.381 mi.
2013 ft.

309 17TH ST, HB
309 17TH STREET
HUNTINGTON BEACH, CA 92648

CPS-SLIC **S132176133**
Orange Co. Ind Site **N/A**
CERS

Relative:
Lower

Actual:
33 ft.

CPS-SLIC:

Name:	309 17TH ST, HB
Address:	309 17TH STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	05/28/2024
Global Id:	T10000022574
Lead Agency:	ORANGE COUNTY
Lead Agency Case Number:	24IC002
Latitude:	33.66691
Longitude:	-118.01063
Case Type:	Cleanup Program Site
Case Worker:	TE
Local Agency:	ORANGE COUNTY
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported

309 17TH ST, HB (Continued) **S132176133**

Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Not reported
Quantity Released Gallons:	Not reported
Begin Date:	05/28/2024
Leak Reported Date:	Not reported
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
No Further Action Date:	Not reported
CA Water Watershed Name:	Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name:	Coastal Plain Of Orange County (8-001)
Disadvantaged Community:	Not reported
CA Enviroscreen 3 Score:	21-25%
CA Enviroscreen 4 Score:	10-15%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	SANTA ANA RWQCB (REGION 8)
Claim No:	Not reported
Claim Status:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Orange Co. Ind Site:

Name:	309 17TH STREET
Address:	309 17TH ST
City,State,Zip:	HUNTINGTON BEACH, C 92648
Case ID:	24IC002
Record ID:	Not reported
Current Status:	OPEN
Closure Type:	Not reported
Released Chemical:	Not reported
Closed Date:	Not reported
File Location:	Geotracker

CERS:

Name:	309 17TH ST, HB
Address:	309 17TH STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Site ID:	917521
CERS ID:	T10000022574
CERS Description:	Cleanup Program Site

214
East
1/4-1/2
0.401 mi.
2115 ft.

CHEVRON U.S.A. INC, PRODUCTION DEPT
20031 GOLDEN WEST ST
HUNTINGTON BEACH, CA 92648

SWF/LF
WMUDS/SWAT
DRYCLEANERS
EMI

S101049779
N/A

Relative:
Higher

Actual:
47 ft.

SWF/LF (SWIS):

Name:	HUNTINGTON BEACH LEASE ‘A‘ DUMP SITE
Address:	20031 GOLDEN WEST STREET
City,State,Zip:	HUNTINGTON BEACH, CA 99999
Region:	STATE
Facility ID:	30-AB-0170
SWIS Number:	30-AB-0170
Point of Contact:	Casey Yearout
Is Archived:	Yes
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Huntington Beach
Reporting Agency Legal Name:	County of Orange
Reporting Agency Department:	Health Care Agency, Environmental Health Division
Enforcing Agency Legal Name:	County of Orange
Enforcing Agency Department:	Health Care Agency, Environmental Health Division
Regulation Status:	Unpermitted

Owner:

SWIS Number:	30-AB-0170
Owner:	Chevron USA-Western Reg’n(Huntington Bch
Owner Address:	20031 Golden West Street
Owner City:	Huntington Beach
Owner State:	CA
Owner Zip:	92648
Site Name:	Huntington Beach Lease ‘a‘ Dump Site
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	33.66667
Longitude:	-117.98333
Is Archived:	Yes
Started On:	Not reported
Contact Name:	Ron Brankov
Contact Title:	Foreman
Contact Email:	Not reported
Contact Phone:	(714) 969-3600

WMUDS/SWAT:

Edit Date:	19950626
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported

CHEVRON U.S.A. INC, PRODUCTION DEPT (Continued) **S101049779**

Secondary Waste Type:	Not reported
Base Meridian:	SB
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	True
Waste List:	False
Agency Type:	Not reported
Agency Name:	CHEVRON U.S.A., WESTERN REGION
Agency Department:	ENVIRONMENTAL COORDINATOR
Agency Address:	20031 GOLDENWEST STREET
Agency City,St,Zip:	HUNTINGTON BEACH 92646
Agency Contact:	Not reported
Agency Telephone:	7145362561
Land Owner Name:	CHEVRON U.S.A., WESTERN REGION
Land Owner Address:	BOX 7643 RINCON ANNEX
Land Owner City,St,Zip:	SAN FRANCISCO, CA 94120
Land Owner Contact:	Not reported
Land Owner Phone:	4158947700
Region:	8
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	HUNTINGTON BEACH LEASE "A" DISPOSAL SI
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	BIHBIHBIH
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:	CHEVRON U.S.A., WESTERN REGION
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	GSR
Number of WMUDS at Facility:	1
Section Range:	06S11W03
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	8 300001NUR
Solid Waste Information ID:	30-AB-0170

DRYCLEAN SOUTH COAST:

Name:	CHEVRON U.S.A. INC, PRODUCTION DEPT
Address:	20031 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	11574
Application Number:	13774X
Permit Number:	733774
Status:	Out of Business
Representative Name:	J. H. LOVINS
Representative Telephone:	805 6584389

CHEVRON U.S.A. INC, PRODUCTION DEPT (Continued) **S101049779**

Permit Status:	INACTIVE
BCAT Number:	300900
BCAT Description:	STORAGE TANK PETROLEUM MIDDLE DISTILLATE
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	406.29998779
UTM North:	3726.3000488
Application Date:	12/31/9999
PO Issue Date:	08/09/1973
NAICS Code:	237210
SIC Code:	1311

EMI:

Name:	CHEVRON U.S.A. INC, PRODUCTION
Address:	20031 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92646
Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	11574
Air District Name:	SC
SIC Code:	1311
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:	424
Reactive Organic Gases Tons/Yr:	239
Carbon Monoxide Emissions Tons/Yr:	20
NOX - Oxides of Nitrogen Tons/Yr:	143
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	CHEVRON U.S.A. INC, PRODUCTION
Address:	20031 GOLDEN WEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92646
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	11574
Air District Name:	SC
SIC Code:	1311
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:	295
Reactive Organic Gases Tons/Yr:	172
Carbon Monoxide Emissions Tons/Yr:	12
NOX - Oxides of Nitrogen Tons/Yr:	90
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

X215 **CHEVRON** **UST FINDER RELEASE** **1028935088**
East **20031 GOLDENWEST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92648**
0.424 mi.
2239 ft. **Site 1 of 3 in cluster X**

Relative: **Higher**
Actual: **45 ft.**

UST FINDER RELEASE:

Object ID:	65710
Facility ID:	Not reported
Lust ID:	CAT0605901025
Name:	CHEVRON
Address:	20031 GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Address Match Type:	StreetAddress
Reported Date:	Not reported
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	2000
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-118.01178
Y Coord:	33.67393
Latitude:	33.6739299999999
Longitude:	-118.01178

X216 **CHEVRON** **LUST** **S122221965**
East **20031 S GOLDENWEST ST** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92648**
0.424 mi.
2239 ft. **Site 2 of 3 in cluster X**

Relative: **Higher**
Actual: **45 ft.**

ORANGE CO. LUST:

Name:	CHEVRON
Address:	20031 S GOLDENWEST ST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	ORANGE
Facility Id:	89UT184
Current Status:	Closed
Type of Closure:	Closure certification issued
Released Substance:	Not reported
Date Closed:	08/03/1993

CHEVRON (Continued) **S122221965**

File Location: Local Agency

X217 **CHEVRON USA INC HUNTINGTON BEACH PROD** **RCRA-SQG** **1000434350**
East **20031 GOLDEN WEST AVE** **LUST** **CAD084456771**
1/4-1/2 **HUNTINGTON BEACH, CA 92648** **FINDS**
0.424 mi. **ECHO**
2239 ft. **Site 3 of 3 in cluster X** **Cortese**
HWTS
Relative: Higher **HAZNET**

Actual: 45 ft.

RCRA Listings:

Date Form Received by Agency:	19960901
Handler Name:	Chevron Usa Inc Huntington Beach Prod
Handler Address:	Golden West Ave
Handler City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAD084456771
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ca
State District:	4
Mailing Address:	GOLDEN WEST AVE
Mailing City,State,Zip:	HUNTINGTON BEACH, CA 92648
Owner Name:	Chevron Usa Inc Western Region
Owner Type:	Private
Operator Name:	Not Required
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: CHEVRON USA INC WESTERN REGION	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NOT REQUIRED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: CHEVRON USA INC WESTERN REGION
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960901
Handler Name: CHEVRON USA INC HUNTINGTON BEACH PROD
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960901
Handler Name: CHEVRON USA INC HUNTINGTON BEACH PROD
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ca
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900412
Handler Name: CHEVRON USA INC HUNTINGTON BEACH
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 211111

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

NAICS Description: Crude Petroleum And Natural Gas Extraction

NAICS Code: 213111
NAICS Description: Drilling Oil And Gas Wells

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST:
Name: CHEVRON
Address: 20031 GOLDENWEST
City,State,Zip: HUNTINGTON BEACH, CA 92648
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site

Geo Track:
Global Id: T0605901025
Latitude: 33.6743847
Longitude: -118.0112435
Status: Completed - Case Closed
Status Date: 08/03/1993
Case Worker: GH
RB Case Number: 083001348T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 89UT184
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline, Diesel
EPA Region: 9
Coordinate Source: Google Geocode
Quantity Released Gallons: 0
Begin Date: 08/30/1989
Leak Reported Date: 08/30/1989
How Discovered: Tank Closure
How Discovered Description: Not reported
Discharge Source: Not reported
Discharge Cause: Not reported
Stop Method: Close and Remove Tank
Stop Description: Not reported
No Further Action Date: 08/03/1993
CA Water Watershed Name: Santa Ana River - Lower Santa Ana River - East Coastal Plain (801.11)
Dwr Groundwater Subbasin Name: Coastal Plain Of Orange County (8-001)
Disadvantaged Community: Not reported
CA Enviroscreen 3 Score: Not reported
CA Enviroscreen 4 Score: Not reported
Military DOD Site: No
Facility Project Subtype: Not reported
RWQCB Region: SANTA ANA RWQCB (REGION 8)
Claim Number: Not reported
Claim Status: Not reported
Site History: Not reported

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

LUST:
Global Id: T0605901025
Contact Type: Local Agency Caseworker - Primary Caseworker
Contact Name: GENIECE HIGGINS
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: ghiggins@ochca.com
Phone Number: 7144336260

LUST:
Global Id: T0605901025
Action Type: Other
Date: 08/30/1989
Action: Leak Discovery

Global Id: T0605901025
Action Type: REMEDIATION
Date: 10/17/1989
Action: Excavation

Global Id: T0605901025
Action Type: Other
Date: 08/30/1989
Action: Leak Reported

LUST:
Global Id: T0605901025
Status: Open - Case Begin Date
Status Date: 08/30/1989

Global Id: T0605901025
Status: Completed - Case Closed
Status Date: 08/03/1993

LUST REG 8:
Name: CHEVRON
Address: 20031 GOLDENWEST
City: HUNTINGTON BEACH
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083001348T
Local Case Num: 89UT184
Case Type: Soil only
Substance: 12032,12034
Qty Leaked: 0
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Close Tank

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605901025
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/30/1989
Enforcement Date:	Not reported
Close Date:	8/3/1993
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6736088
Longitude:	-118.0119057
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	NOM
Staff Initials:	AR
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

FINDS:
Registry ID: 110002661771

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS),EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), andToxic Release Inventory (TRI).

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000434350
Registry ID:	110002661771
DFR URL:	
Name:	CHEVRON USA INC
Address:	20031 Golden West Ave
City,State,Zip:	HUNTINGTON BEACH, CA 92648

CORTESE:

Name:	CHEVRON
Address:	20031 GOLDENWEST
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605901025
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HWTS:

Name:	CHEVRON USA INC HUNTINGTON BEACH PROD
Address:	20031 GOLDEN WEST AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 92648
EPA ID:	CAD084456771
Inactive Date:	06/30/2002
Create Date:	07/23/1982
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 1392
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BAKERSFIELD, CA 933021392
Owner Name:	CHEVRON USA INC

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Owner Address:	PO BOX 1392
Owner Address 2:	Not reported
Owner City,State,Zip:	BAKERSFIELD, CA 933021392
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	STEVE MERRITT
Contact Address:	PO BOX 1392
Contact Address 2:	Not reported
City,State,Zip:	BAKERSFIELD, CA 933021392
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	33.6744
Longitude:	-118.010613

HAZNET:

Name:	CHEVRON USA INC HUNTINGTON BEACH PROD
Address:	20031 GOLDEN WEST AVE
Address 2:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA 926480000
Contact:	STEVE MERRITT
Telephone:	6616334446
Mailing Name:	Not reported
Mailing Address:	PO BOX 1392
Year:	1994
Gepaid:	CAD084456771
TSD EPA ID:	CAD981388952
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	-
Tons:	0
Year:	1994
Gepaid:	CAD084456771
TSD EPA ID:	CAT000646117
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	-
Tons:	25.284
Year:	1993
Gepaid:	CAD084456771
TSD EPA ID:	CAD980675276
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	138.09
Year:	1993
Gepaid:	CAD084456771
TSD EPA ID:	CAD980675276
CA Waste Code:	611 - Contaminated soil from site clean-up
Disposal Method:	D80 - Disposal, Land Fill
Tons:	534.25
Year:	1992
Gepaid:	CAD084456771

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

TSD EPA ID: CAT000646117
CA Waste Code: 352 - Other organic solids
Disposal Method: D80 - Disposal, Land Fill
Tons: 191.046

Year: 1992
Gepaid: CAD084456771
TSD EPA ID: CAT000646117
CA Waste Code: 352 - Other organic solids
Disposal Method: 03 -
Tons: 16.856

Year: 1991
Gepaid: CAD084456771
TSD EPA ID: CAD980675276
CA Waste Code: 581 - Gas scrubber waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 26.9696

Year: 1991
Gepaid: CAD084456771
TSD EPA ID: CAT000646117
CA Waste Code: 352 - Other organic solids
Disposal Method: D80 - Disposal, Land Fill
Tons: 30.3408

Year: 1991
Gepaid: CAD084456771
TSD EPA ID: NVT330010000
CA Waste Code: 261 - Polychlorinated biphenyls and material containing PCBs
Disposal Method: -
Tons: 24.5746

Year: 1991
Gepaid: CAD084456771
TSD EPA ID: CAD980675276
CA Waste Code: 241 - Tank bottom waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 16.856

Click this hyperlink while viewing on your computer to access
140 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:
Year: 1994
Gen EPA ID: CAD084456771

Shipment Date: 19940512
Creation Date: 10/5/1995 0:00:00
Receipt Date: Not reported
Manifest ID: 90530948
Trans EPA ID: CAD061605036
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000646117

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	25.284
Waste Quantity:	30
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940511
Creation Date:	10/5/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	90570420
Trans EPA ID:	CAL000048121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981388952
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	*
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	1993
Gen EPA ID:	CAD084456771

Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408646
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	14.26
Waste Quantity:	28520
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408652
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	23.48
Waste Quantity:	46960
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408653
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	17.79
Waste Quantity:	35580
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408648
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	20
Waste Quantity:	20
Quantity Unit:	T
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408647
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	15.11
Waste Quantity:	30220
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408651
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	25.04
Waste Quantity:	50080
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931216
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931216
Manifest ID:	90408686
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	22.41
Waste Quantity:	44820
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931027
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931027
Manifest ID:	90408682
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	20
Waste Quantity:	20
Quantity Unit:	T

CHEVRON USA INC HUNTINGTON BEACH PROD (Continued) **1000434350**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931027
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931027
Manifest ID:	90408685
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	20
Waste Quantity:	20
Quantity Unit:	T
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931027
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931027
Manifest ID:	90408684
Trans EPA ID:	CAD980694723
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	20
Waste Quantity:	20
Quantity Unit:	T
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Y218 **HUNTER-THURMOND OIL** **ENVIROSTOR** **1000401726**
ESE **523 17TH STREET** **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA 92648**
0.441 mi.
2328 ft. **Site 1 of 2 in cluster Y**

Relative:
Higher

Actual:
37 ft.

ENVIROSTOR:

Name:	HUNTER-THURMOND OIL
Address:	523 17TH STREET
City,State,Zip:	HUNTINGTON BEACH, CA 92648
Facility ID:	30130116
Status:	Refer: Other Agency
Status Date:	10/28/1994
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:	72
Senate:	36
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.66905
Longitude:	-118.0085
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD982359812
Alias Type:	EPA Identification Number
Alias Name:	30130116
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	09/07/1981
Comments:	FACILITY IDENTIFIED ID'D FROM OLD PH BOOK & AIR PHOTO SEARCH AIR PHOTO: FLIGHT #11730;ROLL1;FRAME 42, 43,44(TAKEN 8-22-47) & 1947 TOPO MAP
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/28/1994
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:	02/08/1991

HUNTER-THURMOND OIL (Continued) **1000401726**

Comments: PA Report was reviewed by Region 4 staff. Site is located a highly populated residential area. There is a residence covering most of the property where the wells were abandoned Since no CERCLA regulated wastes are known to have been on the site, staff recommends NFA by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/06/1987
Comments: SITE SCREENING DONE MORE INFO NEEDED

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

Y219 **HUNTER-THURMOND OIL** **SEMS-ARCHIVE** **1003879323**
ESE **523 17TH ST** **CAD982359812**
1/4-1/2 **HUNTINGTON BEACH, CA 92648**
0.441 mi.
2328 ft. **Site 2 of 2 in cluster Y**

Relative: **Higher**
Actual: **37 ft.**

SEMS Archive:
Site ID: 0903194
EPA ID: CAD982359812
Name: HUNTER-THURMOND OIL
Address: 523 17TH ST
Address 2: Not reported
City,State,Zip: HUNTINGTON BEACH, CA 92648
Cong District: 42
FIPS Code: 06059
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: 09
Site ID: 0903194
EPA ID: CAD982359812
Site Name: HUNTER-THURMOND OIL
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1990-09-20 04:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 09

HUNTER-THURMOND OIL (Continued) **1003879323**

Site ID:	0903194
EPA ID:	CAD982359812
Site Name:	HUNTER-THURMOND OIL
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1988-01-01 05:00:00
Finish Date:	1988-01-01 05:00:00
Qual:	Not reported
Current Action Lead:	St Perf

Region:	09
Site ID:	0903194
EPA ID:	CAD982359812
Site Name:	HUNTER-THURMOND OIL
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-09-20 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Z220 **FIRE CONTROL STATION #12** **FUDS** **1024903531**
ESE **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA**
0.496 mi.
2620 ft. **Site 1 of 2 in cluster Z**

Relative:
Lower

Actual:
32 ft.

FUDS:

EPA Region:	9
Installation ID:	CA99799F543900
Congressional District Number:	48
Name:	FIRE CONTROL STATION #12
FUDS Number:	J09CA0357
City:	HUNTINGTON BEACH
State:	CA
County:	ORANGE
Object ID:	46
USACE Division:	spd
USACE District:	spl
Status:	Properties without projects
Current Owner:	Priv: Private Condo Complex

EMS Map Link:

Eligibility:	Eligible
Has Projects:	no
NPL Status:	Not on the NPL
Project Required:	no
Feature Description:	Gun Emplacement For Coastal Defense
Latitude:	33.66666667

FIRE CONTROL STATION #12 (Continued) **1024903531**

Longitude: -118.00833333

Z221 **F C STATION #12** **ENVIROSTOR** **S107736308**
ESE **N/A**
1/4-1/2 **HUNTINGTON BEACH, CA**
0.498 mi.
2631 ft. **Site 2 of 2 in cluster Z**

Relative:
Lower

Actual:
32 ft.

ENVIROSTOR:

Name:	F C STATION #12
Address:	Not reported
City,State,Zip:	HUNTINGTON BEACH, CA
Facility ID:	80000244
Status:	Inactive - Needs Evaluation
Status Date:	08/14/2018
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress
Assembly:	72
Senate:	36
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.66666
Longitude:	-118.0083
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	Under Investigation
Confirmed COC:	Under Investigation
Potential Description:	UE
Alias Name:	CA99799F543900
Alias Type:	Federal Facility ID
Alias Name:	J09CA0357
Alias Type:	INPR
Alias Name:	80000244
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:	07/17/2017
Comments:	Draft report on R drive awaiting management review.
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

F C STATION #12 (Continued) **S107736308**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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222 **HUNTINGTON BEACH HS EXPANSION AREA** **ENVIROSTOR** **S108748594**
East **1905 MAIN STREET** **SCH** **N/A**
1/2-1 **HUNTINGTON BEACH, CA 92648**
0.951 mi.
5020 ft.

Relative:
Higher

Actual:
57 ft.

ENVIROSTOR:
Name: HUNTINGTON BEACH HS EXPANSION AREA
Address: 1905 MAIN STREET
City,State,Zip: HUNTINGTON BEACH, CA 92648
Facility ID: 60000095
Status: No Further Action
Status Date: 09/06/2006
Site Code: 404631
Site Type: School Investigation
Site Type Detailed: School
Acres: 0.61
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 72
Senate: 36
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.67641
Longitude: -118.0025
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: Arsenic Benzene Chlordane DDD DDE DDT Lead Methane TPH-MOTOR OIL Vinyl chloride
Confirmed COC: 30028-NO 30001-NO 30003-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO 30015-NO 3002502-NO
Potential Description: SOIL
Alias Name: HUNTINGTON BEACH UHSD-HNTGTN BEACH HS EX
Alias Type: Alternate Name
Alias Name: 404631
Alias Type: Project Code (Site Code)
Alias Name: 60000095
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/31/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

HUNTINGTON BEACH HS EXPANSION AREA (Continued) **S108748594**

Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/07/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/06/2006
Comments: DTSC issued a No Further Action determination based on a Preliminary Environmental Assessment Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/09/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/08/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: HUNTINGTON BEACH HS EXPANSION AREA
Address: 1905 MAIN STREET
City,State,Zip: HUNTINGTON BEACH, CA 92648
Facility ID: 60000095
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.61
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404631
Assembly: 72
Senate: 36
Special Program Status: Not reported
Status: No Further Action
Status Date: 09/06/2006
Restricted Use: NO

HUNTINGTON BEACH HS EXPANSION AREA (Continued) **S108748594**

Funding:	School District
Latitude:	33.67641
Longitude:	-118.0025
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Lead, Methane, TPH-MOTOR OIL, Vinyl chloride
Confirmed COC:	30028-NO, 30001-NO, 30003-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, 30015-NO, 3002502-NO
Potential Description:	SOIL
Alias Name:	HUNTINGTON BEACH UHSD-HNTGTN BEACH HS EX
Alias Type:	Alternate Name
Alias Name:	404631
Alias Type:	Project Code (Site Code)
Alias Name:	60000095
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	08/31/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/07/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/06/2006
Comments:	DTSC issued a No Further Action determination based on a Preliminary Environmental Assessment Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/09/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	01/08/2006
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

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HUNTINGTON BEACH	S114726442	CITY OF HUNTINGTON BEACH LANDFILL	BETWEEN GOTHARD AND GOLDENWEST		RGA LF
HUNTINGTON BEACH	S114726444	CITY OF HUNTINGTON BEACH	BTWN GOLDENWEST & GOTHARD SO.		RGA LF
HUNTINGTON BEACH	S102435995	ROGER'S CABLE COMPANY (FORMER)	PACIFIC COAST HWY	92648	LUST, Cortese

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

Lists of Federal NPL (Superfund) sites

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: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

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: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 11/20/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 2

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/20/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
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: 03/11/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 06/24/2025
Number of Days to Update: 83

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
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: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/10/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

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 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: 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: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

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: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 04/23/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 1

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
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: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/13/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/27/2025
Number of Days to Update: 5

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/08/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
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: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/26/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

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

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: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
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: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous 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: 04/14/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
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

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: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/14/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
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: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/11/2025
Date Data Arrived at EDR: 06/12/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 4

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/18/2025
Next Scheduled EDR Contact: 07/28/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/02/2025
Date Data Arrived at EDR: 06/04/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
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: 01/30/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 72

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
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: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/07/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
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: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
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: 06/02/2025
Date Data Arrived at EDR: 06/03/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
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: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
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: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 82
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/25/2025
Date Data Arrived at EDR: 05/01/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/01/2025
Date Data Arrived at EDR: 01/17/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 02/26/2025
Date Data Arrived at EDR: 03/03/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 08/11/2025
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: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/07/2025
Date Data Arrived at EDR: 05/07/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 27

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
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: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 89
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 84

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
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: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
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: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
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: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
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: 02/12/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 15

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 30

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 06/24/2025
Number of Days to Update: 83

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 05/28/2025
Date Data Arrived at EDR: 05/28/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 6

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

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: 04/22/2025
Date Data Arrived at EDR: 05/05/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 16

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/23/2025
Date Data Arrived at EDR: 03/27/2025
Date Made Active in Reports: 06/24/2025
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 84

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/13/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 75

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/23/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/17/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/15/2024
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 89

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/05/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 06/26/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA’s UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA’s Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

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

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 09/19/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76

Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 71

Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 10/02/2024
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 78

Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 72

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432

Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412

Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473

Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
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: 05/22/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 8
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 08/29/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/26/2024
Number of Days to Update: 76
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/14/2024
Number of Days to Update: 78

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/26/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 30

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/25/2024
Number of Days to Update: 75

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 08/23/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 71

Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81

Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/06/2024
Number of Days to Update: 72

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
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: 04/14/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 06/27/2025
Number of Days to Update: 73

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/09/2025
Date Data Arrived at EDR: 04/10/2025
Date Made Active in Reports: 07/02/2025
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN 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: 01/31/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 81

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
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: 03/31/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 06/20/2025
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 06/25/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
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: 12/31/2024
Date Data Arrived at EDR: 01/03/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 75

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 06/30/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/02/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/05/2025
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
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: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/02/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/06/2025
Date Data Arrived at EDR: 05/06/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 09/08/2025
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: 04/14/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/19/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 72

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/16/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
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: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/09/2025
Date Data Arrived at EDR: 04/10/2025
Date Made Active in Reports: 07/02/2025
Number of Days to Update: 83

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/09/2025
Date Data Arrived at EDR: 04/10/2025
Date Made Active in Reports: 07/02/2025
Number of Days to Update: 83

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/24/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/07/2025
Date Data Arrived at EDR: 04/08/2025
Date Made Active in Reports: 07/02/2025
Number of Days to Update: 85

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/03/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 75

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 07/09/2024
Date Made Active in Reports: 09/27/2024
Number of Days to Update: 80

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/31/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 83
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
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: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/10/2025
Date Data Arrived at EDR: 04/11/2025
Date Made Active in Reports: 06/26/2025
Number of Days to Update: 76
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/12/2025
Date Data Arrived at EDR: 05/14/2025
Date Made Active in Reports: 06/16/2025
Number of Days to Update: 33

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 03/27/2025
Date Made Active in Reports: 06/20/2025
Number of Days to Update: 85

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/06/2025
Date Data Arrived at EDR: 03/07/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 76
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
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: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
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: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 01/31/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/29/2025
Date Data Arrived at EDR: 05/29/2025
Date Made Active in Reports: 06/18/2025
Number of Days to Update: 20

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
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: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 72

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
A listing of properties that fall within a Maher Ordinance, for all of San Francisco. The Maher Ordinance requires San Francisco Department of Public Health (DPH) oversight for the characterization and mitigation of hazardous substances found in soil, soil vapor, and groundwater in areas designated within the Maher map. The Maher map includes areas with current or historical industrial use or zoning; areas within 100 feet of current or historical underground tanks; filled former Bay, marsh, or creek areas; or areas within 150 feet of a current or former elevated highway. City of San Francisco Planning.

Date of Government Version: 04/13/2025
Date Data Arrived at EDR: 04/15/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 83
Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/06/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 73

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List

Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/05/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/09/2025
Date Data Arrived at EDR: 04/10/2025
Date Made Active in Reports: 06/27/2025
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
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: 04/01/2025
Date Data Arrived at EDR: 04/16/2025
Date Made Active in Reports: 07/07/2025
Number of Days to Update: 82

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2025
Next Scheduled EDR Contact: 07/28/2025
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: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/09/2025
Date Made Active in Reports: 04/23/2025
Number of Days to Update: 14
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/19/2025
Date Data Arrived at EDR: 03/25/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 3
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/17/2025
Next Scheduled EDR Contact: 10/06/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/17/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
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: 02/02/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/23/2025
Next Scheduled EDR Contact: 10/13/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/01/2025
Next Scheduled EDR Contact: 10/20/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

CRC HUNTINGTON BEACH
20101 GOLDENWEST STREET
HUNTINGTON BEACH, CA 92648

TARGET PROPERTY COORDINATES

Latitude (North):	33.674487 - 33° 40' 28.15''
Longitude (West):	118.023703 - 118° 1' 25.33''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	405100.1
UTM Y (Meters):	3726341.5
Elevation:	37 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50004919 SEAL BEACH, CA
Version Date:	2021
East Map:	50006177 NEWPORT BEACH, CA
Version Date:	2022

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

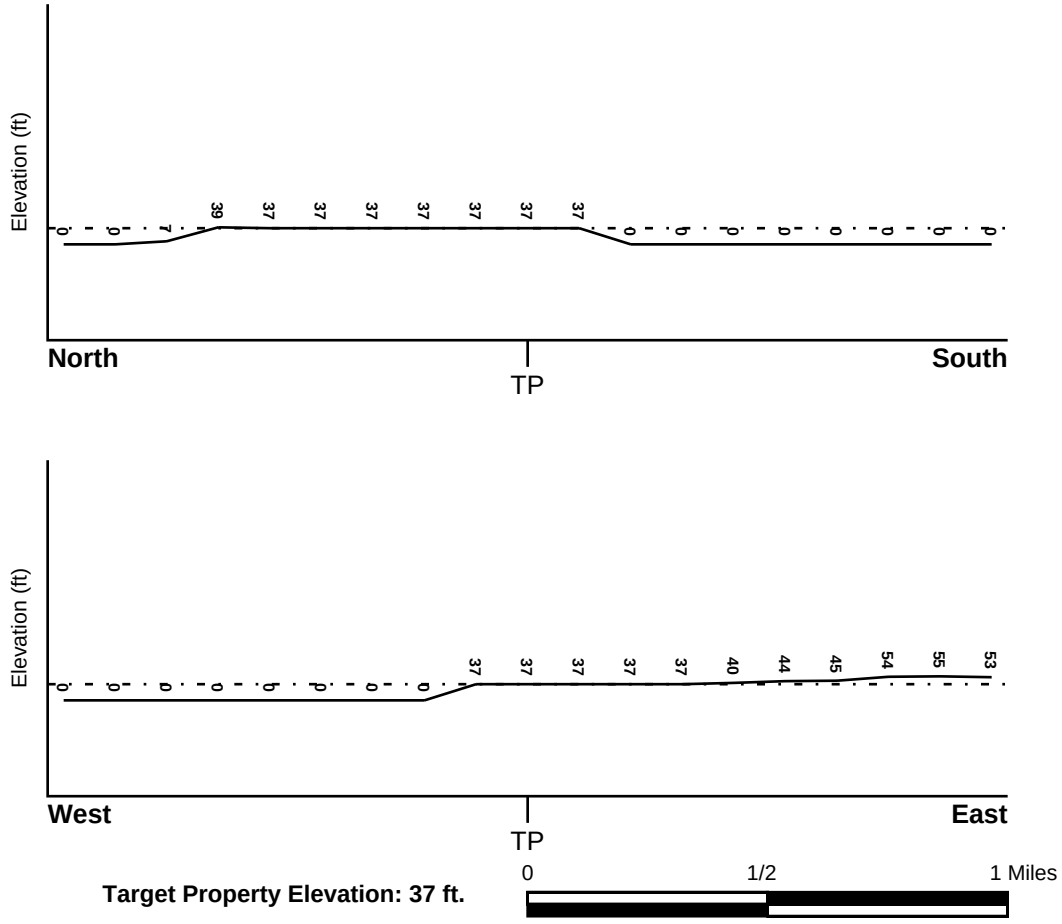
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C2100F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SEAL BEACH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

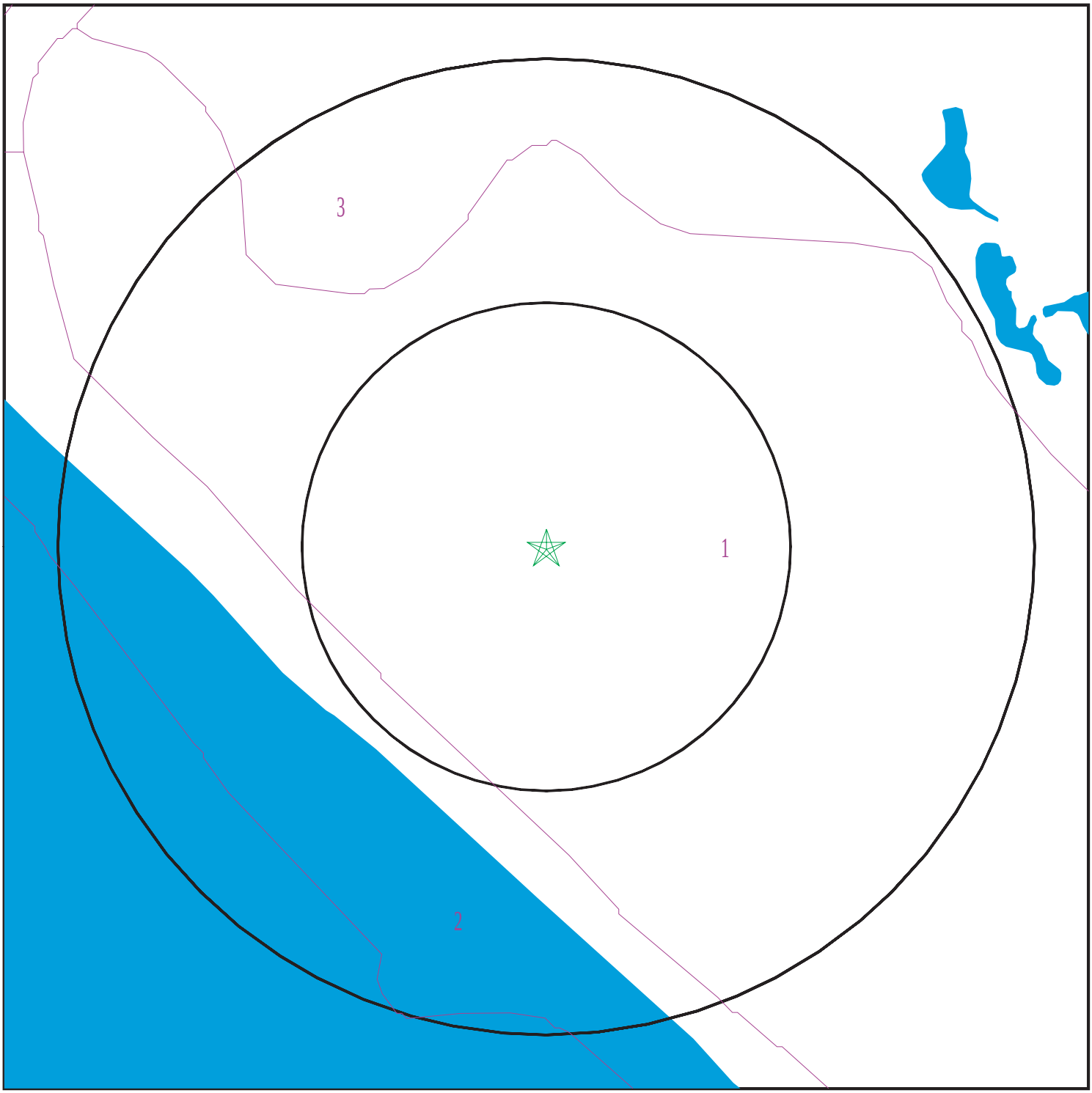
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 8040226.2s



SITE NAME:	CRC Huntington Beach	CLIENT:	Langan
ADDRESS:	20101 Goldenwest Street Huntington Beach CA 92648	CONTACT:	Katherine Thomas
LAT/LONG:	33.674487 / 118.023703	INQUIRY #:	8040226.2s
		DATE:	July 08, 2025 11:27 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: MARINA

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	33 inches	loamy sand	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	33 inches	59 inches	sand	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	59 inches	79 inches	sand	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 5.6

Soil Map ID: 2

Soil Component Name: BEACHES

Soil Surface Texture: sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 5.1
2	5 inches	59 inches	coarse sand	Not reported	Not reported	Max: 141 Min: 42	Max: 7.8 Min: 5.1

Soil Map ID: 3

Soil Component Name: MYFORD

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	11 inches	18 inches	sandy clay	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 6.1
3	18 inches	27 inches	sandy clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	27 inches	70 inches	clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 6.1
5	70 inches	79 inches	sandy loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000010077	0 - 1/8 Mile WNW
2	CADWR0000029035	1/2 - 1 Mile East
3	CADWR0000029461	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	6320	1/2 - 1 Mile SW
5	CADWR0000037789	1/2 - 1 Mile ENE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG17000104318	0 - 1/8 Mile NE
A2	CAOG17000101270	0 - 1/8 Mile SSW
A3	CAOG17000101272	0 - 1/8 Mile West
A4	CAOG17000103301	0 - 1/8 Mile SW
A5	CAOG17000102525	0 - 1/8 Mile South
A6	CAOG17000101610	0 - 1/8 Mile WNW
A7	CAOG17000103211	0 - 1/8 Mile South
A8	CAOG17000103168	0 - 1/8 Mile West
A9	CAOG17000103805	0 - 1/8 Mile NE
A10	CAOG17000102876	0 - 1/8 Mile ENE
A11	CAOG17000103131	0 - 1/8 Mile SSW
A12	CAOG17000101697	0 - 1/8 Mile SW
A13	CAOG17000104461	0 - 1/8 Mile SW
A14	CAOG17000104462	0 - 1/8 Mile SW
A15	CAOG17000104716	0 - 1/8 Mile SW
A16	CAOG17000101371	0 - 1/8 Mile SW
A17	CAOG17000104425	0 - 1/8 Mile WSW
A18	CAOG17000102535	0 - 1/8 Mile ENE
A19	CAOG17000104475	0 - 1/8 Mile SSW
A20	CAOG17000104158	0 - 1/8 Mile WSW
A21	CAOG17000104153	0 - 1/8 Mile SSW
A22	CAOG17000104476	0 - 1/8 Mile SSW
A23	CAOG17000101196	0 - 1/8 Mile West
A24	CAOG17000104630	0 - 1/8 Mile WSW
A25	CAOG17000101450	0 - 1/8 Mile SSW
A26	CAOG17000104567	0 - 1/8 Mile SW
A27	CAOG17000101440	0 - 1/8 Mile SW
A28	CAOG17000101696	0 - 1/8 Mile SW
A29	CAOG17000101397	0 - 1/8 Mile SW
A30	CAOG17000101459	0 - 1/8 Mile SW
A31	CAOG17000101443	0 - 1/8 Mile SSW
A32	CAOG17000104738	0 - 1/8 Mile SW
A33	CAOG17000104457	0 - 1/8 Mile SSW
A34	CAOG17000104744	0 - 1/8 Mile SW
A35	CAOG17000101460	0 - 1/8 Mile WSW
A36	CAOG17000103937	0 - 1/8 Mile SSW
A37	CAOG17000103613	0 - 1/8 Mile WSW
A38	CAOG17000101125	0 - 1/8 Mile WSW
B39	CAOG17000101464	0 - 1/8 Mile WSW
A40	CAOG17000101622	0 - 1/8 Mile West
A41	CAOG17000101287	0 - 1/8 Mile West
A42	CAOG17000101364	0 - 1/8 Mile SSW
B43	CAOG17000104707	0 - 1/8 Mile WSW
B44	CAOG17000104748	0 - 1/8 Mile SSW
B45	CAOG17000104649	0 - 1/8 Mile SSW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A46	CAOG17000101286	0 - 1/8 Mile West
B47	CAOG17000101446	0 - 1/8 Mile WSW
A48	CAOG17000101624	0 - 1/8 Mile West
B50	CAOG17000103649	0 - 1/8 Mile West
B49	CAOG17000102404	0 - 1/8 Mile West
B51	CAOG17000101404	0 - 1/8 Mile SSW
B52	CAOG17000104640	0 - 1/8 Mile WSW
B53	CAOG17000101428	0 - 1/8 Mile West
B54	CAOG17000101285	0 - 1/8 Mile West
B55	CAOG17000101123	0 - 1/8 Mile West
B56	CAOG17000104736	0 - 1/8 Mile SSW
B57	CAOG17000101122	0 - 1/8 Mile West
B58	CAOG17000101623	0 - 1/8 Mile West
B59	CAOG17000104642	0 - 1/8 Mile WSW
B60	CAOG17000101115	0 - 1/8 Mile West
B61	CAOG17000104598	0 - 1/8 Mile West
B62	CAOG17000104730	0 - 1/8 Mile SSW
B63	CAOG17000101621	0 - 1/8 Mile West
A64	CAOG17000104499	0 - 1/8 Mile SSE
B65	CAOG17000101424	0 - 1/8 Mile WSW
B66	CAOG17000101620	0 - 1/8 Mile West
B67	CAOG17000104575	0 - 1/8 Mile WSW
B68	CAOG17000101449	0 - 1/8 Mile South
B69	CAOG17000101121	0 - 1/8 Mile West
B70	CAOG17000101619	0 - 1/8 Mile West
B71	CAOG17000104614	0 - 1/8 Mile West
B72	CAOG17000104465	0 - 1/8 Mile West
B73	CAOG17000101425	0 - 1/8 Mile West
B74	CAOG17000101618	0 - 1/8 Mile West
B75	CAOG17000101439	0 - 1/8 Mile West
B76	CAOG17000101616	0 - 1/8 Mile West
B77	CAOG17000101407	0 - 1/8 Mile South
B78	CAOG17000101448	0 - 1/8 Mile South
C79	CAOG17000101254	0 - 1/8 Mile SSE
B80	CAOG17000002061	0 - 1/8 Mile West
B81	CAOG17000101368	0 - 1/8 Mile West
B82	CAOG17000104745	0 - 1/8 Mile West
B83	CAOG17000101612	0 - 1/8 Mile West
C84	CAOG17000101252	0 - 1/8 Mile SSE
B85	CAOG17000104436	0 - 1/8 Mile South
B86	CAOG17000104715	0 - 1/8 Mile South
B87	CAOG17000101614	0 - 1/8 Mile West
B88	CAOG17000101613	0 - 1/8 Mile WNW
B89	CAOG17000104478	0 - 1/8 Mile South
B90	CAOG17000104451	0 - 1/8 Mile West
B91	CAOG17000101726	0 - 1/8 Mile West
B92	CAOG17000104708	0 - 1/8 Mile South
C93	CAOG17000104579	0 - 1/8 Mile South
B94	CAOG17000101611	0 - 1/8 Mile WNW
C95	CAOG17000104477	0 - 1/8 Mile South
B96	CAOG17000101727	0 - 1/8 Mile West
B97	CAOG17000104723	0 - 1/8 Mile West
B98	CAOG17000104746	0 - 1/8 Mile South
B99	CAOG17000101609	0 - 1/8 Mile WNW
D100	CAOG17000104775	0 - 1/8 Mile NW
B101	CAOG17000104755	0 - 1/8 Mile South

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B102	CAOG17000101284	0 - 1/8 Mile WNW
C103	CAOG17000101732	0 - 1/8 Mile South
C104	CAOG17000104611	0 - 1/8 Mile South
B105	CAOG17000104724	0 - 1/8 Mile West
B106	CAOG17000101406	0 - 1/8 Mile West
C107	CAOG17000104498	0 - 1/8 Mile South
B108	CAOG17000104747	0 - 1/8 Mile West
B109	CAOG17000104011	0 - 1/8 Mile WNW
B110	CAOG17000104419	0 - 1/8 Mile West
B111	CAOG17000103829	0 - 1/8 Mile SW
C112	CAOG17000104393	0 - 1/8 Mile South
C113	CAOG17000104603	0 - 1/8 Mile South
B114	CAOG17000104710	0 - 1/8 Mile West
B115	CAOG17000104006	0 - 1/8 Mile West
C116	CAOG17000101350	0 - 1/8 Mile South
B117	CAOG17000101454	0 - 1/8 Mile West
C118	CAOG17000104602	0 - 1/8 Mile South
C119	CAOG17000104452	0 - 1/8 Mile South
E120	CAOG17000102531	0 - 1/8 Mile ENE
C121	CAOG17000103760	0 - 1/8 Mile ESE
C122	CAOG17000104570	0 - 1/8 Mile South
B123	CAOG17000103256	0 - 1/8 Mile SW
B124	CAOG17000104168	0 - 1/8 Mile WNW
C125	CAOG17000101370	0 - 1/8 Mile SSE
C126	CAOG17000101457	0 - 1/8 Mile South
C127	CAOG17000101351	0 - 1/8 Mile South
C128	CAOG17000104770	0 - 1/8 Mile South
C129	CAOG17000103270	0 - 1/8 Mile ESE
B130	CAOG17000103819	0 - 1/8 Mile SSW
C131	CAOG17000101396	0 - 1/8 Mile South
C132	CAOG17000104634	0 - 1/8 Mile SSE
C133	CAOG17000104571	0 - 1/8 Mile SSE
C134	CAOG17000102854	0 - 1/8 Mile ESE
C135	CAOG17000101458	0 - 1/8 Mile South
C136	CAOG17000104299	0 - 1/8 Mile ESE
C137	CAOG17000104704	0 - 1/8 Mile SSE
C138	CAOG17000104497	0 - 1/8 Mile South
B139	CAOG17000103285	0 - 1/8 Mile WSW
C140	CAOG17000101401	0 - 1/8 Mile South
E141	CAOG17000103303	0 - 1/8 Mile NE
C142	CAOG17000103223	0 - 1/8 Mile SSW
E143	CAOG17000103278	0 - 1/8 Mile NNE
D144	CAOG17000104510	0 - 1/8 Mile WNW
E145	CAOG17000103326	0 - 1/8 Mile NE
D146	CAOG17000104574	0 - 1/8 Mile WNW
F147	CAOG17000102757	0 - 1/8 Mile NNE
D148	CAOG17000104500	0 - 1/8 Mile WNW
D149	CAOG17000104467	0 - 1/8 Mile WNW
E150	CAOG17000103169	0 - 1/8 Mile ESE
F151	CAOG17000103277	0 - 1/8 Mile NNE
C152	CAOG17000104101	0 - 1/8 Mile SSE
D153	CAOG17000104479	0 - 1/8 Mile WNW
D154	CAOG17000101352	0 - 1/8 Mile WNW
D155	CAOG17000103646	0 - 1/8 Mile NNW
F156	CAOG17000102765	0 - 1/8 Mile NNE
D157	CAOG17000104491	0 - 1/8 Mile WNW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C158	CAOG17000102835	0 - 1/8 Mile ESE
G159	CAOG17000103246	1/8 - 1/4 Mile ESE
D160	CAOG17000101384	1/8 - 1/4 Mile WNW
D161	CAOG17000104674	1/8 - 1/4 Mile WNW
C162	CAOG17000103548	1/8 - 1/4 Mile South
D163	CAOG17000101738	1/8 - 1/4 Mile WNW
D164	CAOG17000104473	1/8 - 1/4 Mile WNW
E165	CAOG17000102440	1/8 - 1/4 Mile ESE
D166	CAOG17000104750	1/8 - 1/4 Mile WNW
C167	CAOG17000102462	1/8 - 1/4 Mile SE
C168	CAOG17000104468	1/8 - 1/4 Mile SSE
D169	CAOG17000101693	1/8 - 1/4 Mile WNW
D170	CAOG17000101634	1/8 - 1/4 Mile WNW
C171	CAOG17000103294	1/8 - 1/4 Mile SE
E172	CAOG17000103322	1/8 - 1/4 Mile NE
E173	CAOG17000103810	1/8 - 1/4 Mile NE
C174	CAOG17000104432	1/8 - 1/4 Mile SSE
E175	CAOG17000103310	1/8 - 1/4 Mile NE
E176	CAOG17000103328	1/8 - 1/4 Mile NE
D177	CAOG17000102850	1/8 - 1/4 Mile NW
C178	CAOG17000101126	1/8 - 1/4 Mile SE
F179	CAOG17000103330	1/8 - 1/4 Mile NNE
C180	CAOG17000101154	1/8 - 1/4 Mile SE
D181	CAOG17000104764	1/8 - 1/4 Mile WNW
C182	CAOG17000101291	1/8 - 1/4 Mile SSE
C183	CAOG17000104424	1/8 - 1/4 Mile SSE
C184	CAOG17000101433	1/8 - 1/4 Mile SSE
D185	CAOG17000104741	1/8 - 1/4 Mile WNW
D186	CAOG17000101469	1/8 - 1/4 Mile WNW
D187	CAOG17000101636	1/8 - 1/4 Mile WNW
C188	CAOG17000101209	1/8 - 1/4 Mile SE
D189	CAOG17000104495	1/8 - 1/4 Mile WNW
C190	CAOG17000104433	1/8 - 1/4 Mile SSE
D191	CAOG17000104463	1/8 - 1/4 Mile WNW
C192	CAOG17000104610	1/8 - 1/4 Mile SSE
D193	CAOG17000104776	1/8 - 1/4 Mile NW
D194	CAOG17000101737	1/8 - 1/4 Mile WNW
E195	CAOG17000102511	1/8 - 1/4 Mile East
C196	CAOG17000104731	1/8 - 1/4 Mile SSE
D197	CAOG17000104725	1/8 - 1/4 Mile WNW
C198	CAOG17000104609	1/8 - 1/4 Mile SSE
C199	CAOG17000104714	1/8 - 1/4 Mile SSE
H200	CAOG17000101392	1/8 - 1/4 Mile WNW
D201	CAOG17000101289	1/8 - 1/4 Mile WNW
D202	CAOG17000102450	1/8 - 1/4 Mile NW
C203	CAOG17000104398	1/8 - 1/4 Mile SSE
C204	CAOG17000104496	1/8 - 1/4 Mile SSE
C205	CAOG17000101416	1/8 - 1/4 Mile SSE
C206	CAOG17000101731	1/8 - 1/4 Mile SSE
D207	CAOG17000101385	1/8 - 1/4 Mile WNW
D208	CAOG17000104717	1/8 - 1/4 Mile WNW
H209	CAOG17000101393	1/8 - 1/4 Mile WNW
E210	CAOG17000103820	1/8 - 1/4 Mile ENE
C211	CAOG17000101292	1/8 - 1/4 Mile SSE
C212	CAOG17000104553	1/8 - 1/4 Mile SSE
H213	CAOG17000104480	1/8 - 1/4 Mile WNW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C214	CAOG17000101415	1/8 - 1/4 Mile SSE
C215	CAOG17000101293	1/8 - 1/4 Mile SSE
H216	CAOG17000104395	1/8 - 1/4 Mile WNW
H217	CAOG17000101456	1/8 - 1/4 Mile WNW
I218	CAOG17000101463	1/8 - 1/4 Mile SSE
I219	CAOG17000104769	1/8 - 1/4 Mile SSE
I220	CAOG17000104435	1/8 - 1/4 Mile SSE
H221	CAOG17000101386	1/8 - 1/4 Mile WNW
G222	CAOG17000102852	1/8 - 1/4 Mile SE
H223	CAOG17000101470	1/8 - 1/4 Mile WNW
I224	CAOG17000101111	1/8 - 1/4 Mile SE
I225	CAOG17000101441	1/8 - 1/4 Mile SSE
I226	CAOG17000101383	1/8 - 1/4 Mile SSE
I227	CAOG17000104743	1/8 - 1/4 Mile SSE
H228	CAOG17000104481	1/8 - 1/4 Mile WNW
H229	CAOG17000104454	1/8 - 1/4 Mile WNW
I230	CAOG17000104749	1/8 - 1/4 Mile SSE
I231	CAOG17000102537	1/8 - 1/4 Mile SSE
I232	CAOG17000104774	1/8 - 1/4 Mile SSE
I233	CAOG17000104768	1/8 - 1/4 Mile SSE
I234	CAOG17000101438	1/8 - 1/4 Mile SSE
H235	CAOG17000101635	1/8 - 1/4 Mile WNW
I236	CAOG17000104472	1/8 - 1/4 Mile SSE
H237	CAOG17000104631	1/8 - 1/4 Mile WNW
I238	CAOG17000101294	1/8 - 1/4 Mile SSE
H239	CAOG17000104385	1/8 - 1/4 Mile WNW
H240	CAOG17000101290	1/8 - 1/4 Mile WNW
I241	CAOG17000104569	1/8 - 1/4 Mile SSE
I242	CAOG17000101295	1/8 - 1/4 Mile SSE
H243	CAOG17000103641	1/8 - 1/4 Mile West
H244	CAOG17000104632	1/8 - 1/4 Mile WNW
I245	CAOG17000101296	1/8 - 1/4 Mile SSE
H246	CAOG17000104531	1/8 - 1/4 Mile WNW
I247	CAOG17000104742	1/8 - 1/4 Mile SSE
I248	CAOG17000104455	1/8 - 1/4 Mile SSE
I249	CAOG17000104163	1/8 - 1/4 Mile SSE
H250	CAOG17000104486	1/8 - 1/4 Mile WNW
H251	CAOG17000101739	1/8 - 1/4 Mile WNW
J252	CAOG17000102519	1/8 - 1/4 Mile East
H253	CAOG17000101360	1/8 - 1/4 Mile WNW
I254	CAOG17000104437	1/8 - 1/4 Mile SSE
J255	CAOG17000101615	1/8 - 1/4 Mile East
I256	CAOG17000101387	1/8 - 1/4 Mile SSE
I257	CAOG17000103186	1/8 - 1/4 Mile SSE
H258	CAOG17000101422	1/8 - 1/4 Mile WNW
H259	CAOG17000104534	1/8 - 1/4 Mile WNW
I260	CAOG17000104172	1/8 - 1/4 Mile SE
I261	CAOG17000101468	1/8 - 1/4 Mile SSE
I262	CAOG17000101216	1/8 - 1/4 Mile SSE
I263	CAOG17000104489	1/8 - 1/4 Mile SSE
G264	CAOG17000104314	1/8 - 1/4 Mile East
H265	CAOG17000103627	1/8 - 1/4 Mile West
H266	CAOG17000104633	1/8 - 1/4 Mile WNW
I267	CAOG17000101169	1/8 - 1/4 Mile SE
H268	CAOG17000101356	1/8 - 1/4 Mile WNW
H269	CAOG17000101700	1/8 - 1/4 Mile WNW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I270	CAOG17000103204	1/8 - 1/4 Mile SSE
K271	CAOG17000101161	1/8 - 1/4 Mile NW
G272	CAOG17000103828	1/8 - 1/4 Mile ESE
I273	CAOG17000101453	1/8 - 1/4 Mile SSE
I274	CAOG17000101174	1/8 - 1/4 Mile SE
I275	CAOG17000101436	1/8 - 1/4 Mile SSE
I276	CAOG17000104519	1/8 - 1/4 Mile SSE
H277	CAOG17000104438	1/8 - 1/4 Mile WNW
H278	CAOG17000101357	1/8 - 1/4 Mile WNW
H279	CAOG17000101461	1/8 - 1/4 Mile WNW
I280	CAOG17000101462	1/8 - 1/4 Mile SSE
I281	CAOG17000101388	1/8 - 1/4 Mile SSE
G282	CAOG17000102763	1/8 - 1/4 Mile ESE
I283	CAOG17000104434	1/8 - 1/4 Mile SSE
I284	CAOG17000101409	1/8 - 1/4 Mile SSE
I285	CAOG17000103241	1/8 - 1/4 Mile SSE
H286	CAOG17000104484	1/8 - 1/4 Mile WNW
H287	CAOG17000101269	1/8 - 1/4 Mile WNW
I288	CAOG17000104740	1/8 - 1/4 Mile SSE
H289	CAOG17000104485	1/8 - 1/4 Mile WNW
290	CAOG17000103639	1/8 - 1/4 Mile North
H291	CAOG17000103615	1/8 - 1/4 Mile WNW
I292	CAOG17000101367	1/8 - 1/4 Mile SSE
L293	CAOG17000103268	1/8 - 1/4 Mile ESE
I294	CAOG17000101362	1/8 - 1/4 Mile SSE
I295	CAOG17000104515	1/8 - 1/4 Mile SSE
H296	CAOG17000104487	1/8 - 1/4 Mile WNW
H297	CAOG17000101366	1/8 - 1/4 Mile WNW
I298	CAOG17000104766	1/8 - 1/4 Mile SSE
I299	CAOG17000104392	1/8 - 1/4 Mile SSE
I300	CAOG17000101411	1/8 - 1/4 Mile SSE
L301	CAOG17000103266	1/8 - 1/4 Mile ESE
I302	CAOG17000103216	1/8 - 1/4 Mile SSE
H303	CAOG17000104383	1/8 - 1/4 Mile WNW
H304	CAOG17000101694	1/8 - 1/4 Mile WNW
K305	CAOG17000103602	1/8 - 1/4 Mile NNW
I306	CAOG17000104396	1/8 - 1/4 Mile SSE
I307	CAOG17000104493	1/8 - 1/4 Mile SSE
H308	CAOG17000103640	1/8 - 1/4 Mile WNW
H309	CAOG17000103603	1/8 - 1/4 Mile WNW
I310	CAOG17000104501	1/8 - 1/4 Mile SSE
I311	CAOG17000104733	1/8 - 1/4 Mile SSE
I312	CAOG17000101405	1/8 - 1/4 Mile SSE
I313	CAOG17000104737	1/8 - 1/4 Mile SSE
K314	CAOG17000104777	1/8 - 1/4 Mile NW
H315	CAOG17000104482	1/8 - 1/4 Mile WNW
I316	CAOG17000103198	1/8 - 1/4 Mile SSE
I317	CAOG17000104458	1/8 - 1/4 Mile SSE
I318	CAOG17000101734	1/8 - 1/4 Mile SSE
H319	CAOG17000104447	1/8 - 1/4 Mile WNW
I320	CAOG17000101394	1/8 - 1/4 Mile SSE
I321	CAOG17000104577	1/8 - 1/4 Mile SSE
K322	CAOG17000104663	1/8 - 1/4 Mile WNW
I323	CAOG17000104514	1/8 - 1/4 Mile SSE
H324	CAOG17000103112	1/8 - 1/4 Mile WNW
I325	CAOG17000101395	1/8 - 1/4 Mile SSE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K326	CAOG17000101427	1/8 - 1/4 Mile WNW
K327	CAOG17000104391	1/8 - 1/4 Mile WNW
L328	CAOG17000102817	1/8 - 1/4 Mile SE
K329	CAOG17000104526	1/8 - 1/4 Mile WNW
K330	CAOG17000104416	1/8 - 1/4 Mile WNW
M331	CAOG17000103840	1/8 - 1/4 Mile SSE
K332	CAOG17000104601	1/8 - 1/4 Mile WNW
M333	CAOG17000104097	1/8 - 1/4 Mile SSE
I334	CAOG17000103337	1/8 - 1/4 Mile SSE
K335	CAOG17000101358	1/8 - 1/4 Mile WNW
K336	CAOG17000104008	1/8 - 1/4 Mile WNW
K337	CAOG17000104753	1/8 - 1/4 Mile WNW
338	CAOG17000102515	1/8 - 1/4 Mile ENE
N339	CAOG17000103250	1/8 - 1/4 Mile East
K340	CAOG17000101719	1/8 - 1/4 Mile WNW
K341	CAOG17000101432	1/8 - 1/4 Mile WNW
M342	CAOG17000104573	1/8 - 1/4 Mile SE
J343	CAOG17000104291	1/8 - 1/4 Mile East
N344	CAOG17000103273	1/8 - 1/4 Mile East
M345	CAOG17000104732	1/8 - 1/4 Mile SSE
K346	CAOG17000104612	1/8 - 1/4 Mile WNW
M347	CAOG17000104429	1/8 - 1/4 Mile SE
O348	CAOG17000104420	1/8 - 1/4 Mile WNW
K349	CAOG17000101444	1/8 - 1/4 Mile WNW
J350	CAOG17000102616	1/8 - 1/4 Mile East
M351	CAOG17000104466	1/8 - 1/4 Mile SSE
M352	CAOG17000104439	1/8 - 1/4 Mile SSE
N353	CAOG17000103275	1/8 - 1/4 Mile East
354	CAOG17000101120	1/8 - 1/4 Mile West
M355	CAOG17000101442	1/8 - 1/4 Mile SE
356	CAOG17000103830	1/8 - 1/4 Mile NE
O357	CAOG17000104456	1/4 - 1/2 Mile WNW
M358	CAOG17000104605	1/4 - 1/2 Mile SE
L359	CAOG17000104334	1/4 - 1/2 Mile ESE
O360	CAOG17000104418	1/4 - 1/2 Mile WNW
N361	CAOG17000103298	1/4 - 1/2 Mile East
M362	CAOG17000103166	1/4 - 1/2 Mile SSE
L363	CAOG17000102887	1/4 - 1/2 Mile ESE
M364	CAOG17000104427	1/4 - 1/2 Mile SSE
M365	CAOG17000104751	1/4 - 1/2 Mile SE
M366	CAOG17000101414	1/4 - 1/2 Mile SE
O367	CAOG17000104381	1/4 - 1/2 Mile WNW
O368	CAOG17000104443	1/4 - 1/2 Mile WNW
L369	CAOG17000104248	1/4 - 1/2 Mile SE
O370	CAOG17000101455	1/4 - 1/2 Mile WNW
371	CAOG17000103373	1/4 - 1/2 Mile North
L372	CAOG17000103245	1/4 - 1/2 Mile ESE
M373	CAOG17000101451	1/4 - 1/2 Mile SSE
O374	CAOG17000101359	1/4 - 1/2 Mile WNW
O375	CAOG17000104494	1/4 - 1/2 Mile WNW
M376	CAOG17000101718	1/4 - 1/2 Mile SE
O377	CAOG17000101690	1/4 - 1/2 Mile WNW
M378	CAOG17000104726	1/4 - 1/2 Mile SE
N379	CAOG17000102849	1/4 - 1/2 Mile ESE
O380	CAOG17000101349	1/4 - 1/2 Mile WNW
M381	CAOG17000104604	1/4 - 1/2 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
O382	CAOG17000104378	1/4 - 1/2 Mile WNW
M383	CAOG17000104245	1/4 - 1/2 Mile SE
M384	CAOG17000101182	1/4 - 1/2 Mile SE
M385	CAOG17000101435	1/4 - 1/2 Mile SE
M386	CAOG17000101178	1/4 - 1/2 Mile SE
O387	CAOG17000104380	1/4 - 1/2 Mile WNW
P388	CAOG17000104778	1/4 - 1/2 Mile NW
O389	CAOG17000103934	1/4 - 1/2 Mile WNW
M390	CAOG17000104394	1/4 - 1/2 Mile SE
M391	CAOG17000104422	1/4 - 1/2 Mile SE
O392	CAOG17000104448	1/4 - 1/2 Mile WNW
O393	CAOG17000103935	1/4 - 1/2 Mile WNW
M394	CAOG17000103561	1/4 - 1/2 Mile SSE
M395	CAOG17000101369	1/4 - 1/2 Mile SE
M396	CAOG17000104566	1/4 - 1/2 Mile SE
L397	CAOG17000104181	1/4 - 1/2 Mile ESE
M398	CAOG17000101434	1/4 - 1/2 Mile SE
O399	CAOG17000103936	1/4 - 1/2 Mile WNW
Q400	CAOG17000103234	1/4 - 1/2 Mile ESE
O401	CAOG17000104511	1/4 - 1/2 Mile NW
M402	CAOG17000104739	1/4 - 1/2 Mile SE
M403	CAOG17000101735	1/4 - 1/2 Mile SE
O404	CAOG17000104535	1/4 - 1/2 Mile NW
O405	CAOG17000101572	1/4 - 1/2 Mile WNW
M406	CAOG17000103238	1/4 - 1/2 Mile SE
O407	CAOG17000101691	1/4 - 1/2 Mile WNW
O408	CAOG17000102572	1/4 - 1/2 Mile NW
M409	CAOG17000104734	1/4 - 1/2 Mile SE
N410	CAOG17000102636	1/4 - 1/2 Mile East
O411	CAOG17000104536	1/4 - 1/2 Mile NW
O412	CAOG17000103999	1/4 - 1/2 Mile WNW
M413	CAOG17000104088	1/4 - 1/2 Mile SE
414	CAOG17000103315	1/4 - 1/2 Mile NNE
M415	CAOG17000101736	1/4 - 1/2 Mile SE
M416	CAOG17000104442	1/4 - 1/2 Mile SE
O417	CAOG17000101400	1/4 - 1/2 Mile NW
O418	CAOG17000104002	1/4 - 1/2 Mile WNW
N419	CAOG17000103253	1/4 - 1/2 Mile East
M420	CAOG17000101471	1/4 - 1/2 Mile SE
P421	CAOG17000103738	1/4 - 1/2 Mile NW
M422	CAOG17000101426	1/4 - 1/2 Mile SE
O423	CAOG17000104001	1/4 - 1/2 Mile WNW
O424	CAOG17000101706	1/4 - 1/2 Mile NW
M425	CAOG17000103129	1/4 - 1/2 Mile SSE
O426	CAOG17000104719	1/4 - 1/2 Mile NW
M427	CAOG17000104551	1/4 - 1/2 Mile SE
O428	CAOG17000104000	1/4 - 1/2 Mile WNW
R429	CAOG17000103179	1/4 - 1/2 Mile SE
M430	CAOG17000104651	1/4 - 1/2 Mile SE
N431	CAOG17000104231	1/4 - 1/2 Mile ESE
O432	CAOG17000101343	1/4 - 1/2 Mile NW
M433	CAOG17000104754	1/4 - 1/2 Mile SE
R434	CAOG17000103296	1/4 - 1/2 Mile SE
M435	CAOG17000101391	1/4 - 1/2 Mile SE
S436	CAOG17000102755	1/4 - 1/2 Mile East
O437	CAOG17000104382	1/4 - 1/2 Mile WNW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
R438	CAOG17000104453	1/4 - 1/2 Mile SE
O439	CAOG17000104537	1/4 - 1/2 Mile NW
R440	CAOG17000104650	1/4 - 1/2 Mile SE
Q441	CAOG17000102845	1/4 - 1/2 Mile SE
R442	CAOG17000104596	1/4 - 1/2 Mile SE
O443	CAOG17000104446	1/4 - 1/2 Mile NW
O444	CAOG17000104533	1/4 - 1/2 Mile NW
S445	CAOG17000102534	1/4 - 1/2 Mile East
O446	CAOG17000104752	1/4 - 1/2 Mile NW
R447	CAOG17000101390	1/4 - 1/2 Mile SE
R448	CAOG17000103282	1/4 - 1/2 Mile SE
Q449	CAOG17000102474	1/4 - 1/2 Mile ESE
R450	CAOG17000104593	1/4 - 1/2 Mile SE
O451	CAOG17000104706	1/4 - 1/2 Mile NW
T452	CAOG17000104540	1/4 - 1/2 Mile NW
Q453	CAOG17000102816	1/4 - 1/2 Mile ESE
R454	CAOG17000104767	1/4 - 1/2 Mile SE
Q455	CAOG17000104243	1/4 - 1/2 Mile SE
T456	CAOG17000104417	1/4 - 1/2 Mile NW
R457	CAOG17000101413	1/4 - 1/2 Mile SE
T458	CAOG17000103941	1/4 - 1/2 Mile NW
R459	CAOG17000104401	1/4 - 1/2 Mile SE
R460	CAOG17000101188	1/4 - 1/2 Mile SE
Q461	CAOG17000102886	1/4 - 1/2 Mile ESE
R462	CAOG17000101389	1/4 - 1/2 Mile SE
T463	CAOG17000101728	1/4 - 1/2 Mile NW
T464	CAOG17000103953	1/4 - 1/2 Mile NW
R465	CAOG17000103524	1/4 - 1/2 Mile SSE
R466	CAOG17000104638	1/4 - 1/2 Mile SE
R467	CAOG17000101189	1/4 - 1/2 Mile SE
R468	CAOG17000104709	1/4 - 1/2 Mile SE
Q469	CAOG17000102766	1/4 - 1/2 Mile SE
T470	CAOG17000104521	1/4 - 1/2 Mile NW
471	CAOG17000102869	1/4 - 1/2 Mile North
T472	CAOG17000104718	1/4 - 1/2 Mile NW
T473	CAOG17000103965	1/4 - 1/2 Mile NW
R474	CAOG17000101708	1/4 - 1/2 Mile SE
R475	CAOG17000104185	1/4 - 1/2 Mile SE
T476	CAOG17000101567	1/4 - 1/2 Mile NW
477	CAOG17000103800	1/4 - 1/2 Mile NNW
T478	CAOG17000101418	1/4 - 1/2 Mile NW
T479	CAOG17000101733	1/4 - 1/2 Mile NW
R480	CAOG17000101363	1/4 - 1/2 Mile SE
T481	CAOG17000104403	1/4 - 1/2 Mile NW
T482	CAOG17000104102	1/4 - 1/2 Mile NW
T483	CAOG17000103951	1/4 - 1/2 Mile NW
R484	CAOG17000104096	1/4 - 1/2 Mile SE
T485	CAOG17000104620	1/4 - 1/2 Mile NW
Q486	CAOG17000102588	1/4 - 1/2 Mile ESE
R487	CAOG17000104421	1/4 - 1/2 Mile SE
R488	CAOG17000104176	1/4 - 1/2 Mile SE
T489	CAOG17000104444	1/4 - 1/2 Mile NW
T490	CAOG17000104550	1/4 - 1/2 Mile NW
R491	CAOG17000102864	1/4 - 1/2 Mile SSE
R492	CAOG17000101346	1/4 - 1/2 Mile SE
U493	CAOG17000103362	1/4 - 1/2 Mile NE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
R494	CAOG17000101466	1/4 - 1/2 Mile SE
T495	CAOG17000101342	1/4 - 1/2 Mile NW
T496	CAOG17000104613	1/4 - 1/2 Mile NW
R497	CAOG17000101707	1/4 - 1/2 Mile SE
T498	CAOG17000102569	1/4 - 1/2 Mile NW
R499	CAOG17000104722	1/4 - 1/2 Mile SE
R500	CAOG17000104400	1/4 - 1/2 Mile SE
T501	CAOG17000104445	1/4 - 1/2 Mile NW
T502	CAOG17000104619	1/4 - 1/2 Mile NW
S503	CAOG17000102592	1/4 - 1/2 Mile East
R504	CAOG17000104542	1/4 - 1/2 Mile SE
T505	CAOG17000102478	1/4 - 1/2 Mile NW
R506	CAOG17000104591	1/4 - 1/2 Mile SE
T507	CAOG17000104779	1/4 - 1/2 Mile NW
R508	CAOG17000104402	1/4 - 1/2 Mile SE
V509	CAOG17000103138	1/4 - 1/2 Mile ESE
W510	CAOG17000101206	1/4 - 1/2 Mile SE
V511	CAOG17000102621	1/4 - 1/2 Mile East
R512	CAOG17000104564	1/4 - 1/2 Mile SE
R513	CAOG17000101625	1/4 - 1/2 Mile SE
R514	CAOG17000101626	1/4 - 1/2 Mile SE
V515	CAOG17000103248	1/4 - 1/2 Mile ESE
R516	CAOG17000101408	1/4 - 1/2 Mile SE
T517	CAOG17000103952	1/4 - 1/2 Mile NW
T518	CAOG17000104662	1/4 - 1/2 Mile NW
R519	CAOG17000101627	1/4 - 1/2 Mile SE
R520	CAOG17000104492	1/4 - 1/2 Mile SE
R521	CAOG17000101628	1/4 - 1/2 Mile SE
R522	CAOG17000101437	1/4 - 1/2 Mile SE
R523	CAOG17000101629	1/4 - 1/2 Mile SE
W524	CAOG17000103182	1/4 - 1/2 Mile ESE
R525	CAOG17000104590	1/4 - 1/2 Mile SE
T526	CAOG17000104426	1/4 - 1/2 Mile NW
R527	CAOG17000104490	1/4 - 1/2 Mile SE
T528	CAOG17000104661	1/4 - 1/2 Mile NW
X529	CAOG17000103280	1/4 - 1/2 Mile NW
R530	CAOG17000101630	1/4 - 1/2 Mile SE
V531	CAOG17000102710	1/4 - 1/2 Mile ESE
R532	CAOG17000103921	1/4 - 1/2 Mile SE
R533	CAOG17000101631	1/4 - 1/2 Mile SE
R534	CAOG17000104563	1/4 - 1/2 Mile SE
Y535	CAOG17000102403	1/4 - 1/2 Mile NNE
V536	CAOG17000104310	1/4 - 1/2 Mile ESE
V537	CAOG17000102468	1/4 - 1/2 Mile ESE
R538	CAOG17000101632	1/4 - 1/2 Mile SE
Z539	CAOG17000103584	1/4 - 1/2 Mile SSE
R540	CAOG17000101705	1/4 - 1/2 Mile SE
R541	CAOG17000101288	1/4 - 1/2 Mile SE
T542	CAOG17000103992	1/4 - 1/2 Mile NW
R543	CAOG17000104597	1/4 - 1/2 Mile SE
V544	CAOG17000102814	1/4 - 1/2 Mile East
T545	CAOG17000104665	1/4 - 1/2 Mile NW
R546	CAOG17000101633	1/4 - 1/2 Mile SE
R547	CAOG17000104428	1/4 - 1/2 Mile SE
W548	CAOG17000104415	1/4 - 1/2 Mile SE
T549	CAOG17000104450	1/4 - 1/2 Mile NW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
T550	CAOG17000104664	1/4 - 1/2 Mile NW
W551	CAOG17000104546	1/4 - 1/2 Mile SE
V552	CAOG17000102769	1/4 - 1/2 Mile East
T553	CAOG17000103998	1/4 - 1/2 Mile NW
W554	CAOG17000101361	1/4 - 1/2 Mile SE
T555	CAOG17000104375	1/4 - 1/2 Mile NW
X556	CAOG17000103145	1/4 - 1/2 Mile NW
Y557	CAOG17000102717	1/4 - 1/2 Mile NNE
AA558	CAOG17000104325	1/4 - 1/2 Mile ESE
W559	CAOG17000104423	1/4 - 1/2 Mile SE
AB560	CAOG17000102772	1/4 - 1/2 Mile ENE
T561	CAOG17000104666	1/4 - 1/2 Mile NW
T562	CAOG17000104720	1/4 - 1/2 Mile NW
T563	CAOG17000101582	1/4 - 1/2 Mile NW
W564	CAOG17000101184	1/4 - 1/2 Mile SE
W565	CAOG17000102884	1/4 - 1/2 Mile SE
W566	CAOG17000101695	1/4 - 1/2 Mile SE
W567	CAOG17000104294	1/4 - 1/2 Mile SE
AC568	CAOG17000101261	1/4 - 1/2 Mile NW
AC569	CAOG17000104376	1/4 - 1/2 Mile NW
W570	CAOG17000104092	1/4 - 1/2 Mile SE
AC571	CAOG17000101711	1/4 - 1/2 Mile NW
AD572	CAOG17000103586	1/4 - 1/2 Mile North
AE573	CAOG17000102662	1/4 - 1/2 Mile East
W574	CAOG17000102771	1/4 - 1/2 Mile SE
W575	CAOG17000103219	1/4 - 1/2 Mile SE
W576	CAOG17000101365	1/4 - 1/2 Mile SE
AA577	CAOG17000102873	1/4 - 1/2 Mile ESE
AC578	CAOG17000104670	1/4 - 1/2 Mile NW
AC579	CAOG17000102593	1/4 - 1/2 Mile NW
W580	CAOG17000104635	1/4 - 1/2 Mile SE
AC581	CAOG17000101299	1/4 - 1/2 Mile NW
AC582	CAOG17000103926	1/4 - 1/2 Mile NW
AC583	CAOG17000104559	1/4 - 1/2 Mile NW
Z584	CAOG17000104629	1/4 - 1/2 Mile SE
X585	CAOG17000102613	1/4 - 1/2 Mile NW
AC586	CAOG17000103924	1/4 - 1/2 Mile NW
AC587	CAOG17000104560	1/4 - 1/2 Mile NW
W588	CAOG17000104178	1/4 - 1/2 Mile ESE
W589	CAOG17000102760	1/4 - 1/2 Mile SE
W590	CAOG17000101688	1/4 - 1/2 Mile SE
Z591	CAOG17000104568	1/4 - 1/2 Mile SE
AC592	CAOG17000101566	1/4 - 1/2 Mile NW
AC593	CAOG17000104561	1/4 - 1/2 Mile NW
Z594	CAOG17000104582	1/4 - 1/2 Mile SE
U595	CAOG17000103323	1/4 - 1/2 Mile NE
AB596	CAOG17000103221	1/4 - 1/2 Mile ENE
Z597	CAOG17000102738	1/4 - 1/2 Mile SE
Z598	CAOG17000104488	1/4 - 1/2 Mile SE
X599	CAOG17000102622	1/4 - 1/2 Mile NNW
AC600	CAOG17000103954	1/4 - 1/2 Mile NW
601	CAOG17000102912	1/4 - 1/2 Mile NNE
AC602	CAOG17000104377	1/4 - 1/2 Mile NW
Z603	CAOG17000104474	1/4 - 1/2 Mile SE
Z604	CAOG17000104581	1/4 - 1/2 Mile SE
Z606	CAOG17000103836	1/4 - 1/2 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Z605	CAOG17000103835	1/4 - 1/2 Mile SE
Z607	CAOG17000104712	1/4 - 1/2 Mile SE
AB608	CAOG17000102725	1/4 - 1/2 Mile ENE
AF609	CAOG17000103236	1/4 - 1/2 Mile SE
AC610	CAOG17000101710	1/4 - 1/2 Mile NW
U611	CAOG17000103573	1/4 - 1/2 Mile NE
AC612	CAOG17000104675	1/4 - 1/2 Mile NW
Z613	CAOG17000104580	1/4 - 1/2 Mile SE
W614	CAOG17000103354	1/4 - 1/2 Mile SE
W615	CAOG17000101191	1/4 - 1/2 Mile SE
Z616	CAOG17000101348	1/4 - 1/2 Mile SE
AG617	CAOG17000102516	1/4 - 1/2 Mile NE
AF618	CAOG17000104240	1/4 - 1/2 Mile SE
619	CAOG17000103267	1/4 - 1/2 Mile ENE
AC620	CAOG17000102688	1/4 - 1/2 Mile NW
AC621	CAOG17000103980	1/4 - 1/2 Mile NW
AC622	CAOG17000104676	1/4 - 1/2 Mile NW
AC623	CAOG17000101712	1/4 - 1/2 Mile NW
AF624	CAOG17000101713	1/4 - 1/2 Mile SE
AG625	CAOG17000103572	1/4 - 1/2 Mile NE
AB626	CAOG17000102472	1/4 - 1/2 Mile ENE
Z627	CAOG17000104758	1/4 - 1/2 Mile SE
AB628	CAOG17000102677	1/4 - 1/2 Mile ENE
V629	CAOG17000102878	1/4 - 1/2 Mile ESE
AC630	CAOG17000103983	1/4 - 1/2 Mile NW
AF631	CAOG17000104071	1/4 - 1/2 Mile SE
AC632	CAOG17000101729	1/4 - 1/2 Mile NW
AD633	CAOG17000102729	1/4 - 1/2 Mile North
AF634	CAOG17000104399	1/4 - 1/2 Mile SE
AA635	CAOG17000104230	1/4 - 1/2 Mile ESE
AF636	CAOG17000101380	1/4 - 1/2 Mile SE
AA637	CAOG17000103175	1/4 - 1/2 Mile ESE
AH638	CAOG17000102589	1/4 - 1/2 Mile ESE
AG639	CAOG17000103308	1/4 - 1/2 Mile NE
AC640	CAOG17000103993	1/4 - 1/2 Mile NW
AC641	CAOG17000104677	1/4 - 1/2 Mile NW
Y642	CAOG17000102726	1/4 - 1/2 Mile NNE
AE643	CAOG17000103140	1/4 - 1/2 Mile ENE
AC644	CAOG17000104578	1/4 - 1/2 Mile NW
AF645	CAOG17000101373	1/4 - 1/2 Mile SE
AF646	CAOG17000104431	1/4 - 1/2 Mile SE
AG647	CAOG17000103538	1/4 - 1/2 Mile NE
AC648	CAOG17000104449	1/4 - 1/2 Mile NW
AC649	CAOG17000103942	1/4 - 1/2 Mile NW
AA650	CAOG17000102584	1/4 - 1/2 Mile ESE
AG651	CAOG17000103550	1/4 - 1/2 Mile NE
AH652	CAOG17000102659	1/4 - 1/2 Mile East
AE653	CAOG17000103365	1/4 - 1/2 Mile East
AI654	CAOG17000104003	1/4 - 1/2 Mile SE
AE655	CAOG17000103174	1/4 - 1/2 Mile East
AF656	CAOG17000104009	1/4 - 1/2 Mile SE
AC657	CAOG17000103943	1/4 - 1/2 Mile NW
AC658	CAOG17000101258	1/4 - 1/2 Mile NW
AA659	CAOG17000102811	1/4 - 1/2 Mile ESE
AG660	CAOG17000103529	1/4 - 1/2 Mile NE
AF661	CAOG17000101194	1/4 - 1/2 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AJ662	CAOG17000103317	1/4 - 1/2 Mile NNE
AF663	CAOG17000102787	1/4 - 1/2 Mile SE
AA664	CAOG17000103994	1/4 - 1/2 Mile ESE
AC665	CAOG17000103955	1/4 - 1/2 Mile NW
AC666	CAOG17000103984	1/4 - 1/2 Mile NW
AF667	CAOG17000101692	1/4 - 1/2 Mile SE
AC668	CAOG17000102740	1/4 - 1/2 Mile NW
AF669	CAOG17000104430	1/4 - 1/2 Mile SE
AH670	CAOG17000102473	1/4 - 1/2 Mile ESE
AF671	CAOG17000104397	1/4 - 1/2 Mile SE
AI672	CAOG17000103143	1/4 - 1/2 Mile ESE
AJ673	CAOG17000103320	1/4 - 1/2 Mile NNE
AC674	CAOG17000101574	1/4 - 1/2 Mile NW
AC675	CAOG17000101577	1/4 - 1/2 Mile NW
AF676	CAOG17000101465	1/4 - 1/2 Mile SE
AK677	CAOG17000101354	1/4 - 1/2 Mile NW
AF678	CAOG17000104464	1/4 - 1/2 Mile SE
AF679	CAOG17000101353	1/4 - 1/2 Mile SE
AC680	CAOG17000103972	1/4 - 1/2 Mile NW
AC681	CAOG17000101579	1/4 - 1/2 Mile NW
682	CAOG17000103287	1/4 - 1/2 Mile North
AF683	CAOG17000103363	1/4 - 1/2 Mile SE
AF684	CAOG17000104576	1/4 - 1/2 Mile SE
AF685	CAOG17000104763	1/4 - 1/2 Mile SE
AC686	CAOG17000104007	1/4 - 1/2 Mile NW
AC687	CAOG17000104547	1/4 - 1/2 Mile NW
AF688	CAOG17000101709	1/4 - 1/2 Mile SE
AF689	CAOG17000104572	1/4 - 1/2 Mile SE
AF690	CAOG17000101742	1/4 - 1/2 Mile SE
AL691	CAOG17000103207	1/4 - 1/2 Mile ESE
AF692	CAOG17000101699	1/4 - 1/2 Mile SE
AL693	CAOG17000103178	1/4 - 1/2 Mile ESE
AK694	CAOG17000101257	1/4 - 1/2 Mile NW
AK695	CAOG17000104548	1/4 - 1/2 Mile NW
AF696	CAOG17000104624	1/4 - 1/2 Mile SE
AF697	CAOG17000104565	1/4 - 1/2 Mile SE
AH698	CAOG17000102582	1/4 - 1/2 Mile ESE
AF699	CAOG17000104459	1/4 - 1/2 Mile SE
AM700	CAOG17000102722	1/4 - 1/2 Mile East
AK701	CAOG17000101580	1/4 - 1/2 Mile NW
AF702	CAOG17000104623	1/4 - 1/2 Mile SE
AK703	CAOG17000104549	1/4 - 1/2 Mile NW
AH704	CAOG17000102801	1/4 - 1/2 Mile ESE
AH705	CAOG17000103812	1/4 - 1/2 Mile ESE
AF706	CAOG17000104686	1/4 - 1/2 Mile SE
AF707	CAOG17000101698	1/4 - 1/2 Mile SE
AH708	CAOG17000103202	1/4 - 1/2 Mile ESE
AK709	CAOG17000101267	1/4 - 1/2 Mile NW
AK710	CAOG17000101581	1/4 - 1/2 Mile NW
AF711	CAOG17000104483	1/4 - 1/2 Mile SE
AH712	CAOG17000103206	1/4 - 1/2 Mile ESE
AH713	CAOG17000103822	1/4 - 1/2 Mile ESE
AM714	CAOG17000102804	1/4 - 1/2 Mile East
AF715	CAOG17000101715	1/4 - 1/2 Mile SE
AF716	CAOG17000101193	1/4 - 1/2 Mile SE
AK717	CAOG17000102471	1/4 - 1/2 Mile NW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AF718	CAOG17000104622	1/4 - 1/2 Mile SE
AM719	CAOG17000102720	1/4 - 1/2 Mile East
AH720	CAOG17000103210	1/4 - 1/2 Mile ESE
AH721	CAOG17000103826	1/2 - 1 Mile ESE
AF722	CAOG17000101689	1/2 - 1 Mile SE
AH723	CAOG17000103831	1/2 - 1 Mile ESE
AI724	CAOG17000102723	1/2 - 1 Mile ESE
AF725	CAOG17000104765	1/2 - 1 Mile SE
AK726	CAOG17000104721	1/2 - 1 Mile NW
AK727	CAOG17000103981	1/2 - 1 Mile NW
AJ728	CAOG17000103979	1/2 - 1 Mile NE
AK729	CAOG17000103982	1/2 - 1 Mile NW
AF730	CAOG17000104621	1/2 - 1 Mile SE
AF731	CAOG17000101540	1/2 - 1 Mile SE
AL732	CAOG17000102842	1/2 - 1 Mile ESE
AK733	CAOG17000101266	1/2 - 1 Mile NW
AF734	CAOG17000104685	1/2 - 1 Mile SE
AI735	CAOG17000102846	1/2 - 1 Mile SE
AK736	CAOG17000104389	1/2 - 1 Mile NW
AN737	CAOG17000101215	1/2 - 1 Mile SE
AN738	CAOG17000104144	1/2 - 1 Mile SE
AK739	CAOG17000101576	1/2 - 1 Mile NW
AN740	CAOG17000104441	1/2 - 1 Mile SE
AK741	CAOG17000101345	1/2 - 1 Mile NW
AL742	CAOG17000104316	1/2 - 1 Mile ESE
AI743	CAOG17000103960	1/2 - 1 Mile SE
AN744	CAOG17000101277	1/2 - 1 Mile SE
AO745	CAOG17000103976	1/2 - 1 Mile ESE
AI746	CAOG17000102806	1/2 - 1 Mile SE
AK747	CAOG17000101256	1/2 - 1 Mile NW
AN748	CAOG17000104087	1/2 - 1 Mile SE
AK749	CAOG17000104388	1/2 - 1 Mile NW
AN750	CAOG17000104440	1/2 - 1 Mile SE
AN751	CAOG17000104078	1/2 - 1 Mile SE
AK752	CAOG17000103255	1/2 - 1 Mile NW
AP753	CAOG17000102533	1/2 - 1 Mile ENE
AN754	CAOG17000101347	1/2 - 1 Mile SE
AQ755	CAOG17000102713	1/2 - 1 Mile East
AN756	CAOG17000103947	1/2 - 1 Mile SE
AI757	CAOG17000103967	1/2 - 1 Mile SE
AR758	CAOG17000103925	1/2 - 1 Mile NW
AN759	CAOG17000104083	1/2 - 1 Mile SE
AN760	CAOG17000101598	1/2 - 1 Mile SE
AK761	CAOG17000104387	1/2 - 1 Mile NW
AN762	CAOG17000104729	1/2 - 1 Mile SE
AS763	CAOG17000103827	1/2 - 1 Mile ENE
AL764	CAOG17000102480	1/2 - 1 Mile ESE
AL765	CAOG17000103986	1/2 - 1 Mile ESE
AN766	CAOG17000104557	1/2 - 1 Mile SE
AN767	CAOG17000101537	1/2 - 1 Mile SE
AN768	CAOG17000104182	1/2 - 1 Mile SE
AR769	CAOG17000101264	1/2 - 1 Mile NW
AN770	CAOG17000101445	1/2 - 1 Mile SE
AR771	CAOG17000104528	1/2 - 1 Mile NW
AI772	CAOG17000103213	1/2 - 1 Mile SE
AN773	CAOG17000101447	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AP774	CAOG17000103969	1/2 - 1 Mile ENE
AN775	CAOG17000101533	1/2 - 1 Mile SE
AR776	CAOG17000103964	1/2 - 1 Mile NW
AN777	CAOG17000104066	1/2 - 1 Mile SE
AN778	CAOG17000104728	1/2 - 1 Mile SE
AR779	CAOG17000101399	1/2 - 1 Mile NW
AN780	CAOG17000103633	1/2 - 1 Mile SE
AM781	CAOG17000104333	1/2 - 1 Mile East
AN782	CAOG17000101403	1/2 - 1 Mile SE
AN783	CAOG17000103628	1/2 - 1 Mile SE
AR784	CAOG17000104771	1/2 - 1 Mile NW
AM785	CAOG17000102809	1/2 - 1 Mile East
AN786	CAOG17000104735	1/2 - 1 Mile SE
AR787	CAOG17000104525	1/2 - 1 Mile NW
AN788	CAOG17000103928	1/2 - 1 Mile SE
AN789	CAOG17000101402	1/2 - 1 Mile SE
AN790	CAOG17000104562	1/2 - 1 Mile SE
AN791	CAOG17000103735	1/2 - 1 Mile SE
AR792	CAOG17000101745	1/2 - 1 Mile NW
AN793	CAOG17000104727	1/2 - 1 Mile SE
AR794	CAOG17000104372	1/2 - 1 Mile NW
AR795	CAOG17000101262	1/2 - 1 Mile NW
AT796	CAOG17000102586	1/2 - 1 Mile ESE
AR797	CAOG17000104386	1/2 - 1 Mile NW
AR798	CAOG17000103933	1/2 - 1 Mile NW
AR799	CAOG17000104384	1/2 - 1 Mile NW
AS800	CAOG17000103386	1/2 - 1 Mile ENE
AS801	CAOG17000103249	1/2 - 1 Mile ENE
AR802	CAOG17000103991	1/2 - 1 Mile NW
AR803	CAOG17000104379	1/2 - 1 Mile NW
AT804	CAOG17000102523	1/2 - 1 Mile ESE
AS805	CAOG17000103329	1/2 - 1 Mile ENE
AP806	CAOG17000102674	1/2 - 1 Mile ENE
AR807	CAOG17000103990	1/2 - 1 Mile NW
AR808	CAOG17000104524	1/2 - 1 Mile NW
AS809	CAOG17000103332	1/2 - 1 Mile ENE
AU810	CAOG17000103242	1/2 - 1 Mile ENE
AR811	CAOG17000104523	1/2 - 1 Mile NW
812	CAOG17000103813	1/2 - 1 Mile NNE
AU813	CAOG17000103309	1/2 - 1 Mile ENE
AU814	CAOG17000103371	1/2 - 1 Mile ENE
AQ815	CAOG17000102626	1/2 - 1 Mile East
AQ816	CAOG17000102730	1/2 - 1 Mile ESE
AQ817	CAOG17000103151	1/2 - 1 Mile ESE
AR818	CAOG17000101398	1/2 - 1 Mile NW
AV819	CAOG17000103708	1/2 - 1 Mile SE
AU820	CAOG17000103334	1/2 - 1 Mile ENE
AN821	CAOG17000103457	1/2 - 1 Mile SE
AW822	CAOG17000102466	1/2 - 1 Mile East
AN823	CAOG17000102900	1/2 - 1 Mile SE
AV824	CAOG17000103885	1/2 - 1 Mile SE
AV825	CAOG17000103917	1/2 - 1 Mile SE
AR826	CAOG17000104522	1/2 - 1 Mile NW
AX827	CAOG17000102632	1/2 - 1 Mile East
AY828	CAOG17000102825	1/2 - 1 Mile SE
AO829	CAOG17000104058	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AS830	CAOG17000104170	1/2 - 1 Mile NE
AQ831	CAOG17000102631	1/2 - 1 Mile ESE
AO832	CAOG17000103377	1/2 - 1 Mile ESE
AN833	CAOG17000104295	1/2 - 1 Mile SE
AO834	CAOG17000104122	1/2 - 1 Mile ESE
AV835	CAOG17000101785	1/2 - 1 Mile SE
AZ836	CAOG17000103995	1/2 - 1 Mile NNE
AY837	CAOG17000103312	1/2 - 1 Mile SE
838	CAOG17000103645	1/2 - 1 Mile NE
AV839	CAOG17000103114	1/2 - 1 Mile SE
AV840	CAOG17000101779	1/2 - 1 Mile SE
AQ841	CAOG17000102530	1/2 - 1 Mile East
AV842	CAOG17000103604	1/2 - 1 Mile SE
AV843	CAOG17000102099	1/2 - 1 Mile SE
BA844	CAOG17000102866	1/2 - 1 Mile ESE
AV845	CAOG17000104157	1/2 - 1 Mile SE
AV846	CAOG17000102899	1/2 - 1 Mile SE
BB847	CAOG17000102477	1/2 - 1 Mile NW
AY848	CAOG17000103084	1/2 - 1 Mile SE
BA849	CAOG17000102374	1/2 - 1 Mile ESE
AV850	CAOG17000102097	1/2 - 1 Mile SE
AV851	CAOG17000102893	1/2 - 1 Mile SE
AV852	CAOG17000101786	1/2 - 1 Mile SE
AV853	CAOG17000101788	1/2 - 1 Mile SE
AV854	CAOG17000102095	1/2 - 1 Mile SE
AV855	CAOG17000101782	1/2 - 1 Mile SE
AV856	CAOG17000102101	1/2 - 1 Mile ESE
BC857	CAOG17000102897	1/2 - 1 Mile ESE
BA858	CAOG17000103358	1/2 - 1 Mile ESE
AT859	CAOG17000103124	1/2 - 1 Mile ESE
AV860	CAOG17000102652	1/2 - 1 Mile SE
BA861	CAOG17000102077	1/2 - 1 Mile ESE
AZ862	CAOG17000103531	1/2 - 1 Mile NNE
BD863	CAOG17000103792	1/2 - 1 Mile ENE
AU864	CAOG17000103946	1/2 - 1 Mile ENE
BA865	CAOG17000103888	1/2 - 1 Mile ESE
AY866	CAOG17000102399	1/2 - 1 Mile SE
BA867	CAOG17000103886	1/2 - 1 Mile ESE
BD868	CAOG17000104012	1/2 - 1 Mile ENE
BA869	CAOG17000102646	1/2 - 1 Mile ESE
AW870	CAOG17000103305	1/2 - 1 Mile East
AY871	CAOG17000103376	1/2 - 1 Mile SE
AT872	CAOG17000103257	1/2 - 1 Mile ESE
BA873	CAOG17000103566	1/2 - 1 Mile ESE
AW874	CAOG17000103372	1/2 - 1 Mile East
AW875	CAOG17000103220	1/2 - 1 Mile East
AZ876	CAOG17000103327	1/2 - 1 Mile NNE
AW877	CAOG17000103352	1/2 - 1 Mile East
BA878	CAOG17000104209	1/2 - 1 Mile ESE
AW879	CAOG17000103537	1/2 - 1 Mile East
BA880	CAOG17000104013	1/2 - 1 Mile ESE
AW881	CAOG17000103201	1/2 - 1 Mile East
BA882	CAOG17000103521	1/2 - 1 Mile ESE
AW883	CAOG17000103368	1/2 - 1 Mile East
AW884	CAOG17000103271	1/2 - 1 Mile East
AW885	CAOG17000103661	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AW886	CAOG17000102818	1/2 - 1 Mile East
AV887	CAOG17000103082	1/2 - 1 Mile SE
AV888	CAOG17000103391	1/2 - 1 Mile SE
AV889	CAOG17000102096	1/2 - 1 Mile SE
AV890	CAOG17000104330	1/2 - 1 Mile SE
BA891	CAOG17000103659	1/2 - 1 Mile ESE
BA892	CAOG17000103078	1/2 - 1 Mile ESE
AV893	CAOG17000101776	1/2 - 1 Mile SE
BA894	CAOG17000104119	1/2 - 1 Mile ESE
AV895	CAOG17000103164	1/2 - 1 Mile SE
AY896	CAOG17000104272	1/2 - 1 Mile SE
AW897	CAOG17000103385	1/2 - 1 Mile East
AY898	CAOG17000101784	1/2 - 1 Mile SE
BE899	CAOG17000103342	1/2 - 1 Mile ESE
AW900	CAOG17000104166	1/2 - 1 Mile ENE
BC901	CAOG17000102904	1/2 - 1 Mile ESE
AW902	CAOG17000103233	1/2 - 1 Mile East
AY903	CAOG17000103884	1/2 - 1 Mile SE
AW904	CAOG17000103388	1/2 - 1 Mile East
BC905	CAOG17000102707	1/2 - 1 Mile ESE
BA906	CAOG17000103657	1/2 - 1 Mile ESE
AW907	CAOG17000103251	1/2 - 1 Mile East
AW908	CAOG17000103366	1/2 - 1 Mile East
AX909	CAOG17000102528	1/2 - 1 Mile East
BC910	CAOG17000101761	1/2 - 1 Mile ESE
AV911	CAOG17000104329	1/2 - 1 Mile SE
BA912	CAOG17000103393	1/2 - 1 Mile ESE
AW913	CAOG17000103208	1/2 - 1 Mile East
BA914	CAOG17000102070	1/2 - 1 Mile ESE
AV915	CAOG17000103605	1/2 - 1 Mile SE
AY916	CAOG17000104056	1/2 - 1 Mile SE
AW917	CAOG17000103185	1/2 - 1 Mile East
AW918	CAOG17000103384	1/2 - 1 Mile East
BF919	CAOG17000102529	1/2 - 1 Mile East
BA920	CAOG17000102072	1/2 - 1 Mile ESE
AX921	CAOG17000102461	1/2 - 1 Mile East
BE922	CAOG17000104117	1/2 - 1 Mile ESE
BB923	CAOG17000101324	1/2 - 1 Mile NW
BC924	CAOG17000103655	1/2 - 1 Mile ESE
BA925	CAOG17000103076	1/2 - 1 Mile ESE
BF926	CAOG17000103535	1/2 - 1 Mile East
BG927	CAOG17000103806	1/2 - 1 Mile NE
BA928	CAOG17000102093	1/2 - 1 Mile ESE
BC929	CAOG17000102906	1/2 - 1 Mile ESE
AY930	CAOG17000104124	1/2 - 1 Mile SE
BG931	CAOG17000103557	1/2 - 1 Mile NE
BC932	CAOG17000103355	1/2 - 1 Mile ESE
BA933	CAOG17000103394	1/2 - 1 Mile ESE
BB934	CAOG17000104353	1/2 - 1 Mile NW
BE935	CAOG17000103462	1/2 - 1 Mile ESE
AX936	CAOG17000102464	1/2 - 1 Mile East
BA937	CAOG17000101755	1/2 - 1 Mile ESE
AY938	CAOG17000104203	1/2 - 1 Mile SE
BH939	CAOG17000102539	1/2 - 1 Mile SE
BH940	CAOG17000102898	1/2 - 1 Mile SE
BE941	CAOG17000104118	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BB942	CAOG17000101332	1/2 - 1 Mile NW
BC943	CAOG17000102421	1/2 - 1 Mile SE
BB944	CAOG17000104364	1/2 - 1 Mile NW
BH945	CAOG17000103652	1/2 - 1 Mile SE
BC946	CAOG17000102894	1/2 - 1 Mile SE
BG947	CAOG17000103235	1/2 - 1 Mile NE
AY948	CAOG17000101787	1/2 - 1 Mile SE
BG949	CAOG17000103558	1/2 - 1 Mile NNE
950	CAOG17000103832	1/2 - 1 Mile NE
BH951	CAOG17000104323	1/2 - 1 Mile SE
BA952	CAOG17000102907	1/2 - 1 Mile ESE
BA953	CAOG17000102087	1/2 - 1 Mile ESE
BH954	CAOG17000101777	1/2 - 1 Mile SE
BE955	CAOG17000104014	1/2 - 1 Mile ESE
BB956	CAOG17000104359	1/2 - 1 Mile NW
BI957	CAOG17000102834	1/2 - 1 Mile North
BE958	CAOG17000103079	1/2 - 1 Mile ESE
BB959	CAOG17000104348	1/2 - 1 Mile NW
BG960	CAOG17000103559	1/2 - 1 Mile NNE
BH961	CAOG17000103577	1/2 - 1 Mile SE
BA962	CAOG17000101757	1/2 - 1 Mile ESE
BG963	CAOG17000103252	1/2 - 1 Mile NE
BA964	CAOG17000102903	1/2 - 1 Mile ESE
BG965	CAOG17000103147	1/2 - 1 Mile NE
BJ966	CAOG17000103456	1/2 - 1 Mile SE
BH967	CAOG17000103587	1/2 - 1 Mile SE
BB968	CAOG17000104360	1/2 - 1 Mile NW
BE969	CAOG17000103916	1/2 - 1 Mile ESE
BC970	CAOG17000104204	1/2 - 1 Mile SE
BB971	CAOG17000104349	1/2 - 1 Mile NW
BA972	CAOG17000102085	1/2 - 1 Mile ESE
BH973	CAOG17000103653	1/2 - 1 Mile SE
BE974	CAOG17000103625	1/2 - 1 Mile ESE
BH975	CAOG17000102100	1/2 - 1 Mile SE
BC976	CAOG17000104062	1/2 - 1 Mile ESE
BC977	CAOG17000104296	1/2 - 1 Mile SE
BA978	CAOG17000104061	1/2 - 1 Mile ESE
BJ979	CAOG17000104328	1/2 - 1 Mile SE
BH980	CAOG17000102098	1/2 - 1 Mile SE
BG981	CAOG17000103551	1/2 - 1 Mile NNE
BB982	CAOG17000104361	1/2 - 1 Mile NW
BC983	CAOG17000102071	1/2 - 1 Mile SE
BB984	CAOG17000104350	1/2 - 1 Mile NW
BC985	CAOG17000103516	1/2 - 1 Mile ESE
BE986	CAOG17000102081	1/2 - 1 Mile ESE
BA987	CAOG17000103392	1/2 - 1 Mile ESE
BK988	CAOG17000103313	1/2 - 1 Mile East
BC989	CAOG17000102495	1/2 - 1 Mile ESE
BB990	CAOG17000104362	1/2 - 1 Mile NW
BH991	CAOG17000103607	1/2 - 1 Mile SE
BB992	CAOG17000104351	1/2 - 1 Mile NW
BL993	CAOG17000103821	1/2 - 1 Mile NNE
BM994	CAOG17000103881	1/2 - 1 Mile ESE
BE995	CAOG17000103670	1/2 - 1 Mile ESE
BN996	CAOG17000102683	1/2 - 1 Mile NE
BM997	CAOG17000103546	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BO998	CAOG17000104363	1/2 - 1 Mile NW
BM999	CAOG17000102086	1/2 - 1 Mile ESE
BG1000	CAOG17000103281	1/2 - 1 Mile NE
BE1001	CAOG17000102870	1/2 - 1 Mile East
BE1002	CAOG17000102415	1/2 - 1 Mile ESE
BL1003	CAOG17000102680	1/2 - 1 Mile NNE
BE1004	CAOG17000103080	1/2 - 1 Mile ESE
BO1005	CAOG17000103541	1/2 - 1 Mile NW
BE1006	CAOG17000104257	1/2 - 1 Mile ESE
BM1007	CAOG17000102741	1/2 - 1 Mile ESE
BI1008	CAOG17000103552	1/2 - 1 Mile NNE
BH1009	CAOG17000102387	1/2 - 1 Mile SE
BM1010	CAOG17000103159	1/2 - 1 Mile ESE
BO1011	CAOG17000104354	1/2 - 1 Mile NW
BM1012	CAOG17000103578	1/2 - 1 Mile ESE
BJ1013	CAOG17000102645	1/2 - 1 Mile SE
BH1014	CAOG17000102398	1/2 - 1 Mile SE
BM1015	CAOG17000103460	1/2 - 1 Mile ESE
BH1016	CAOG17000102075	1/2 - 1 Mile SE
BO1017	CAOG17000101683	1/2 - 1 Mile NW
BE1018	CAOG17000103406	1/2 - 1 Mile ESE
BH1019	CAOG17000101780	1/2 - 1 Mile SE
BH1020	CAOG17000102785	1/2 - 1 Mile SE
BI1021	CAOG17000103554	1/2 - 1 Mile NNE
BK1022	CAOG17000103378	1/2 - 1 Mile East
BI1023	CAOG17000103555	1/2 - 1 Mile NNE
BJ1024	CAOG17000101763	1/2 - 1 Mile SE
BF1025	CAOG17000103929	1/2 - 1 Mile East
BO1026	CAOG17000104355	1/2 - 1 Mile NW
BK1027	CAOG17000103343	1/2 - 1 Mile East
BE1028	CAOG17000102346	1/2 - 1 Mile ESE
BJ1029	CAOG17000102069	1/2 - 1 Mile ESE
BJ1030	CAOG17000101756	1/2 - 1 Mile ESE
BO1031	CAOG17000104352	1/2 - 1 Mile NW
BH1032	CAOG17000102732	1/2 - 1 Mile SE
BJ1033	CAOG17000104145	1/2 - 1 Mile ESE
BI1034	CAOG17000103556	1/2 - 1 Mile NNE
BM1035	CAOG17000102350	1/2 - 1 Mile ESE
BH1036	CAOG17000101225	1/2 - 1 Mile SE
BH1037	CAOG17000103742	1/2 - 1 Mile SE
BH1038	CAOG17000102074	1/2 - 1 Mile SE
BH1039	CAOG17000102705	1/2 - 1 Mile SE
BG1040	CAOG17000102686	1/2 - 1 Mile NNE
BO1041	CAOG17000104356	1/2 - 1 Mile NW
BM1042	CAOG17000102092	1/2 - 1 Mile ESE
BO1043	CAOG17000101684	1/2 - 1 Mile NW
BH1044	CAOG17000104303	1/2 - 1 Mile SE
BH1045	CAOG17000102742	1/2 - 1 Mile SE
BF1046	CAOG17000104068	1/2 - 1 Mile East
BO1047	CAOG17000104357	1/2 - 1 Mile NW
BE1048	CAOG17000102337	1/2 - 1 Mile ESE
BH1049	CAOG17000102647	1/2 - 1 Mile SE
BO1050	CAOG17000101329	1/2 - 1 Mile NW
BM1051	CAOG17000101132	1/2 - 1 Mile ESE
BP1052	CAOG17000103702	1/2 - 1 Mile ESE
BM1053	CAOG17000104063	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1054	CAOG17000103637	1/2 - 1 Mile ENE
BM1055	CAOG17000104271	1/2 - 1 Mile ESE
BQ1056	CAOG17000104090	1/2 - 1 Mile NNE
BI1057	CAOG17000102668	1/2 - 1 Mile NNE
BM1058	CAOG17000104208	1/2 - 1 Mile ESE
BK1059	CAOG17000102417	1/2 - 1 Mile ESE
BH1060	CAOG17000104322	1/2 - 1 Mile SE
BH1061	CAOG17000102549	1/2 - 1 Mile SE
BO1062	CAOG17000101685	1/2 - 1 Mile NW
BI1063	CAOG17000103553	1/2 - 1 Mile NNE
BJ1064	CAOG17000103880	1/2 - 1 Mile SE
BR1065	CAOG17000104113	1/2 - 1 Mile ESE
BI1066	CAOG17000104298	1/2 - 1 Mile North
BH1067	CAOG17000103939	1/2 - 1 Mile SE
BR1068	CAOG17000102955	1/2 - 1 Mile ESE
BS1069	CAOG17000103651	1/2 - 1 Mile SE
BJ1070	CAOG17000103077	1/2 - 1 Mile SE
BG1071	CAOG17000102805	1/2 - 1 Mile NE
BJ1072	CAOG17000102706	1/2 - 1 Mile SE
BM1073	CAOG17000103508	1/2 - 1 Mile ESE
BT1074	CAOG17000103761	1/2 - 1 Mile ENE
BJ1075	CAOG17000101760	1/2 - 1 Mile SE
BT1076	CAOG17000102800	1/2 - 1 Mile ENE
BM1077	CAOG17000101150	1/2 - 1 Mile ESE
BS1078	CAOG17000103547	1/2 - 1 Mile SE
BR1079	CAOG17000101849	1/2 - 1 Mile ESE
BP1080	CAOG17000101769	1/2 - 1 Mile ESE
BM1081	CAOG17000104043	1/2 - 1 Mile ESE
BT1082	CAOG17000103532	1/2 - 1 Mile ENE
BT1083	CAOG17000103530	1/2 - 1 Mile ENE
BJ1084	CAOG17000102496	1/2 - 1 Mile SE
BU1085	CAOG17000104270	1/2 - 1 Mile SE
BJ1086	CAOG17000103464	1/2 - 1 Mile SE
BT1087	CAOG17000102815	1/2 - 1 Mile ENE
BM1088	CAOG17000101775	1/2 - 1 Mile ESE
BH1089	CAOG17000103940	1/2 - 1 Mile SE
BT1090	CAOG17000103533	1/2 - 1 Mile ENE
BM1091	CAOG17000103856	1/2 - 1 Mile ESE
BN1092	CAOG17000103272	1/2 - 1 Mile NE
BV1093	CAOG17000102830	1/2 - 1 Mile East
BT1094	CAOG17000103534	1/2 - 1 Mile ENE
BV1095	CAOG17000102777	1/2 - 1 Mile East
BS1096	CAOG17000103606	1/2 - 1 Mile SE
BH1097	CAOG17000103889	1/2 - 1 Mile SE
BJ1098	CAOG17000103700	1/2 - 1 Mile SE
BH1099	CAOG17000102102	1/2 - 1 Mile SE
BM1100	CAOG17000103669	1/2 - 1 Mile ESE
BT1101	CAOG17000102764	1/2 - 1 Mile ENE
BS1102	CAOG17000103938	1/2 - 1 Mile SE
BP1103	CAOG17000103883	1/2 - 1 Mile ESE
BR1104	CAOG17000102357	1/2 - 1 Mile ESE
BT1105	CAOG17000102802	1/2 - 1 Mile ENE
BR1106	CAOG17000102694	1/2 - 1 Mile ESE
BN1107	CAOG17000102813	1/2 - 1 Mile NE
BP1108	CAOG17000101472	1/2 - 1 Mile ESE
BM1109	CAOG17000102349	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BS1110	CAOG17000103707	1/2 - 1 Mile SE
BP1111	CAOG17000102901	1/2 - 1 Mile ESE
BR1112	CAOG17000101831	1/2 - 1 Mile ESE
BP1113	CAOG17000102958	1/2 - 1 Mile ESE
BN1114	CAOG17000102882	1/2 - 1 Mile NE
BR1115	CAOG17000102361	1/2 - 1 Mile ESE
BN1116	CAOG17000103283	1/2 - 1 Mile NE
BS1117	CAOG17000103988	1/2 - 1 Mile SE
BR1118	CAOG17000102359	1/2 - 1 Mile ESE
BM1119	CAOG17000102397	1/2 - 1 Mile ESE
BM1120	CAOG17000103096	1/2 - 1 Mile ESE
BR1121	CAOG17000103642	1/2 - 1 Mile ESE
BW1122	CAOG17000103176	1/2 - 1 Mile NE
BN1123	CAOG17000102812	1/2 - 1 Mile NE
BM1124	CAOG17000103224	1/2 - 1 Mile ESE
BR1125	CAOG17000101822	1/2 - 1 Mile ESE
BM1126	CAOG17000104406	1/2 - 1 Mile ESE
BR1127	CAOG17000103596	1/2 - 1 Mile ESE
BU1128	CAOG17000102423	1/2 - 1 Mile SE
BU1129	CAOG17000102089	1/2 - 1 Mile SE
BP1130	CAOG17000101766	1/2 - 1 Mile SE
BO1131	CAOG17000103743	1/2 - 1 Mile NW
BU1132	CAOG17000104121	1/2 - 1 Mile SE
BS1133	CAOG17000102104	1/2 - 1 Mile SE
BU1134	CAOG17000104326	1/2 - 1 Mile SE
BX1135	CAOG17000103987	1/2 - 1 Mile NE
BW1136	CAOG17000102808	1/2 - 1 Mile NE
BP1137	CAOG17000103590	1/2 - 1 Mile SE
BY1138	CAOG17000104004	1/2 - 1 Mile NNE
BZ1139	CAOG17000102338	1/2 - 1 Mile ESE
BO1140	CAOG17000101546	1/2 - 1 Mile NW
BY1141	CAOG17000102877	1/2 - 1 Mile NNE
BP1142	CAOG17000103459	1/2 - 1 Mile ESE
BW1143	CAOG17000103838	1/2 - 1 Mile NE
BS1144	CAOG17000103567	1/2 - 1 Mile SE
BW1145	CAOG17000102841	1/2 - 1 Mile NE
BX1146	CAOG17000102617	1/2 - 1 Mile NE
CA1147	CAOG17000103744	1/2 - 1 Mile NW
BZ1148	CAOG17000103648	1/2 - 1 Mile ESE
BQ1149	CAOG17000104249	1/2 - 1 Mile NNE
BP1150	CAOG17000101773	1/2 - 1 Mile ESE
BS1151	CAOG17000102905	1/2 - 1 Mile SE
BU1152	CAOG17000103878	1/2 - 1 Mile SE
BR1153	CAOG17000102366	1/2 - 1 Mile ESE
BU1154	CAOG17000103575	1/2 - 1 Mile SE
BW1155	CAOG17000103574	1/2 - 1 Mile NE
BS1156	CAOG17000102819	1/2 - 1 Mile SE
BU1157	CAOG17000104327	1/2 - 1 Mile SE
CB1158	CAOG17000102948	1/2 - 1 Mile ESE
BP1159	CAOG17000102080	1/2 - 1 Mile SE
CA1160	CAOG17000103745	1/2 - 1 Mile NW
CC1161	CAOG17000101771	1/2 - 1 Mile SE
BP1162	CAOG17000101840	1/2 - 1 Mile ESE
CD1163	CAOG17000102718	1/2 - 1 Mile NNE
BP1164	CAOG17000101847	1/2 - 1 Mile ESE
BR1165	CAOG17000103290	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BS1166	CAOG17000102492	1/2 - 1 Mile SE
CA1167	CAOG17000103746	1/2 - 1 Mile NW
BW1168	CAOG17000102768	1/2 - 1 Mile NE
BR1169	CAOG17000104080	1/2 - 1 Mile ESE
BZ1170	CAOG17000104200	1/2 - 1 Mile ESE
BP1171	CAOG17000103458	1/2 - 1 Mile SE
BQ1172	CAOG17000103180	1/2 - 1 Mile NNE
CE1173	CAOG17000101811	1/2 - 1 Mile East
BS1174	CAOG17000102400	1/2 - 1 Mile SE
CA1175	CAOG17000103747	1/2 - 1 Mile NW
BS1176	CAOG17000101778	1/2 - 1 Mile SE
BV1177	CAOG17000103624	1/2 - 1 Mile East
BZ1178	CAOG17000102952	1/2 - 1 Mile ESE
BW1179	CAOG17000102728	1/2 - 1 Mile NE
BU1180	CAOG17000102083	1/2 - 1 Mile SE
BZ1181	CAOG17000101851	1/2 - 1 Mile ESE
BU1182	CAOG17000104301	1/2 - 1 Mile SE
BV1183	CAOG17000104017	1/2 - 1 Mile East
BZ1184	CAOG17000103095	1/2 - 1 Mile ESE
BU1185	CAOG17000101754	1/2 - 1 Mile SE
CC1186	CAOG17000101772	1/2 - 1 Mile SE
BR1187	CAOG17000104042	1/2 - 1 Mile ESE
BU1188	CAOG17000102550	1/2 - 1 Mile SE
CA1189	CAOG17000102447	1/2 - 1 Mile NW
BZ1190	CAOG17000101858	1/2 - 1 Mile ESE
BP1191	CAOG17000101843	1/2 - 1 Mile ESE
CA1192	CAOG17000101227	1/2 - 1 Mile NW
BZ1193	CAOG17000102776	1/2 - 1 Mile ESE
BZ1194	CAOG17000103852	1/2 - 1 Mile ESE
BR1195	CAOG17000101827	1/2 - 1 Mile ESE
BU1196	CAOG17000102786	1/2 - 1 Mile SE
BV1197	CAOG17000103756	1/2 - 1 Mile East
BU1198	CAOG17000104305	1/2 - 1 Mile SE
CA1199	CAOG17000104648	1/2 - 1 Mile NW
BX1200	CAOG17000102810	1/2 - 1 Mile NE
BW1201	CAOG17000102587	1/2 - 1 Mile NE
BV1202	CAOG17000103101	1/2 - 1 Mile East
CF1203	CAOG17000103643	1/2 - 1 Mile ENE
BV1204	CAOG17000103794	1/2 - 1 Mile East
CC1205	CAOG17000102352	1/2 - 1 Mile ESE
BZ1206	CAOG17000103672	1/2 - 1 Mile ESE
CA1207	CAOG17000103751	1/2 - 1 Mile NW
BV1208	CAOG17000103890	1/2 - 1 Mile East
BU1209	CAOG17000102090	1/2 - 1 Mile SE
CG1210	CAOG17000102340	1/2 - 1 Mile ESE
BU1211	CAOG17000104335	1/2 - 1 Mile SE
BV1212	CAOG17000103825	1/2 - 1 Mile East
BV1213	CAOG17000103517	1/2 - 1 Mile East
BU1214	CAOG17000104306	1/2 - 1 Mile SE
BV1215	CAOG17000103288	1/2 - 1 Mile East
CC1216	CAOG17000103461	1/2 - 1 Mile SE
CH1217	CAOG17000102079	1/2 - 1 Mile SE
CD1218	CAOG17000104086	1/2 - 1 Mile NNE
CC1219	CAOG17000102422	1/2 - 1 Mile SE
CA1220	CAOG17000101228	1/2 - 1 Mile NW
BS1221	CAOG17000103843	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BZ1222	CAOG17000101823	1/2 - 1 Mile ESE
BV1223	CAOG17000103837	1/2 - 1 Mile East
CB1224	CAOG17000102946	1/2 - 1 Mile ESE
CH1225	CAOG17000103515	1/2 - 1 Mile SE
CC1226	CAOG17000102341	1/2 - 1 Mile ESE
BV1227	CAOG17000103338	1/2 - 1 Mile East
CI1228	CAOG17000103184	1/2 - 1 Mile NNE
CC1229	CAOG17000102343	1/2 - 1 Mile ESE
CB1230	CAOG17000102329	1/2 - 1 Mile ESE
CC1231	CAOG17000102953	1/2 - 1 Mile ESE
CA1232	CAOG17000103766	1/2 - 1 Mile NW
BY1233	CAOG17000102660	1/2 - 1 Mile NNE
BZ1234	CAOG17000102821	1/2 - 1 Mile ESE
BV1235	CAOG17000103258	1/2 - 1 Mile East
CA1236	CAOG17000102458	1/2 - 1 Mile NW
BV1237	CAOG17000103562	1/2 - 1 Mile East
BZ1238	CAOG17000102752	1/2 - 1 Mile ESE
CA1239	CAOG17000102441	1/2 - 1 Mile NW
CI1240	CAOG17000104247	1/2 - 1 Mile NNE
CB1241	CAOG17000102947	1/2 - 1 Mile ESE
BZ1242	CAOG17000101854	1/2 - 1 Mile ESE
BV1243	CAOG17000103833	1/2 - 1 Mile East
BZ1244	CAOG17000102790	1/2 - 1 Mile ESE
CD1245	CAOG17000102573	1/2 - 1 Mile NNE
CA1246	CAOG17000101229	1/2 - 1 Mile NW
CF1247	CAOG17000102620	1/2 - 1 Mile ENE
BV1248	CAOG17000103374	1/2 - 1 Mile East
CD1249	CAOG17000104180	1/2 - 1 Mile NNE
CJ1250	CAOG17000103618	1/2 - 1 Mile ESE
CA1251	CAOG17000101547	1/2 - 1 Mile NW
BY1252	CAOG17000102591	1/2 - 1 Mile NNE
CH1253	CAOG17000103123	1/2 - 1 Mile SE
BZ1254	CAOG17000103086	1/2 - 1 Mile ESE
BZ1255	CAOG17000101834	1/2 - 1 Mile ESE
CE1256	CAOG17000103920	1/2 - 1 Mile ENE
CK1257	CAOG17000102542	1/2 - 1 Mile East
CI1258	CAOG17000102843	1/2 - 1 Mile NNE
CH1259	CAOG17000102088	1/2 - 1 Mile SE
CH1260	CAOG17000104337	1/2 - 1 Mile SE
CK1261	CAOG17000103619	1/2 - 1 Mile East
CA1262	CAOG17000103770	1/2 - 1 Mile NW
BZ1263	CAOG17000102365	1/2 - 1 Mile ESE
CH1264	CAOG17000104015	1/2 - 1 Mile SE
CI1265	CAOG17000104093	1/2 - 1 Mile NNE
CC1266	CAOG17000104207	1/2 - 1 Mile SE
CH1267	CAOG17000104307	1/2 - 1 Mile SE
CH1268	CAOG17000101764	1/2 - 1 Mile SE
CC1269	CAOG17000102348	1/2 - 1 Mile SE
CA1270	CAOG17000102448	1/2 - 1 Mile NW
1271	CAOG17000101417	1/2 - 1 Mile NNW
CH1272	CAOG17000102867	1/2 - 1 Mile SE
BY1273	CAOG17000102773	1/2 - 1 Mile NNE
CC1274	CAOG17000101845	1/2 - 1 Mile SE
CL1275	CAOG17000102623	1/2 - 1 Mile ENE
CA1276	CAOG17000101487	1/2 - 1 Mile NW
CC1277	CAOG17000101774	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CH1278	CAOG17000101730	1/2 - 1 Mile SE
CC1279	CAOG17000102960	1/2 - 1 Mile ESE
CJ1280	CAOG17000102499	1/2 - 1 Mile ESE
CH1281	CAOG17000103463	1/2 - 1 Mile SE
BZ1282	CAOG17000104112	1/2 - 1 Mile ESE
CH1283	CAOG17000101643	1/2 - 1 Mile SE
CA1284	CAOG17000101230	1/2 - 1 Mile NW
CC1285	CAOG17000102347	1/2 - 1 Mile SE
CC1286	CAOG17000102360	1/2 - 1 Mile ESE
CH1287	CAOG17000104678	1/2 - 1 Mile SE
CH1288	CAOG17000103704	1/2 - 1 Mile SE
CH1289	CAOG17000104304	1/2 - 1 Mile SE
CM1290	CAOG17000104589	1/2 - 1 Mile North
CI1291	CAOG17000103237	1/2 - 1 Mile NNE
CG1292	CAOG17000102362	1/2 - 1 Mile ESE
CC1293	CAOG17000102356	1/2 - 1 Mile SE
CH1294	CAOG17000101564	1/2 - 1 Mile SE
CA1295	CAOG17000103772	1/2 - 1 Mile NW
CH1296	CAOG17000103750	1/2 - 1 Mile SE
CH1297	CAOG17000101430	1/2 - 1 Mile SE
CC1298	CAOG17000102353	1/2 - 1 Mile SE
BZ1299	CAOG17000102333	1/2 - 1 Mile ESE
CH1300	CAOG17000104336	1/2 - 1 Mile SE
CH1301	CAOG17000102078	1/2 - 1 Mile SE
CH1302	CAOG17000101639	1/2 - 1 Mile SE
CH1303	CAOG17000104302	1/2 - 1 Mile SE
CA1304	CAOG17000101231	1/2 - 1 Mile NW
BZ1305	CAOG17000103696	1/2 - 1 Mile ESE
CJ1306	CAOG17000103099	1/2 - 1 Mile ESE
CH1307	CAOG17000104683	1/2 - 1 Mile SE
CG1308	CAOG17000102364	1/2 - 1 Mile ESE
CG1309	CAOG17000101857	1/2 - 1 Mile ESE
CG1310	CAOG17000101835	1/2 - 1 Mile ESE
CC1311	CAOG17000102959	1/2 - 1 Mile ESE
CJ1312	CAOG17000102487	1/2 - 1 Mile ESE
CM1313	CAOG17000104586	1/2 - 1 Mile North
CH1314	CAOG17000101429	1/2 - 1 Mile SE
CA1315	CAOG17000102454	1/2 - 1 Mile NW
CG1316	CAOG17000101856	1/2 - 1 Mile ESE
CH1317	CAOG17000104680	1/2 - 1 Mile SE
CA1318	CAOG17000102442	1/2 - 1 Mile NW
CG1319	CAOG17000103192	1/2 - 1 Mile ESE
CH1320	CAOG17000104682	1/2 - 1 Mile SE
CH1321	CAOG17000103660	1/2 - 1 Mile SE
CH1322	CAOG17000104679	1/2 - 1 Mile SE
CA1323	CAOG17000103773	1/2 - 1 Mile NW
CC1324	CAOG17000101844	1/2 - 1 Mile SE
CH1325	CAOG17000102438	1/2 - 1 Mile SE
CL1326	CAOG17000103737	1/2 - 1 Mile ENE
CH1327	CAOG17000101768	1/2 - 1 Mile SE
CN1328	CAOG17000102332	1/2 - 1 Mile ESE
CH1329	CAOG17000104684	1/2 - 1 Mile SE
CJ1330	CAOG17000102695	1/2 - 1 Mile ESE
CM1331	CAOG17000104701	1/2 - 1 Mile North
CH1332	CAOG17000104681	1/2 - 1 Mile SE
CO1333	CAOG17000103636	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CP1334	CAOG17000104183	1/2 - 1 Mile NNE
CQ1335	CAOG17000102583	1/2 - 1 Mile NNE
CD1336	CAOG17000102762	1/2 - 1 Mile NNE
CM1337	CAOG17000104600	1/2 - 1 Mile North
CR1338	CAOG17000104152	1/2 - 1 Mile NE
CQ1339	CAOG17000103265	1/2 - 1 Mile NNE
CG1340	CAOG17000104019	1/2 - 1 Mile ESE
CP1341	CAOG17000103177	1/2 - 1 Mile NNE
CS1342	CAOG17000102351	1/2 - 1 Mile SE
CH1343	CAOG17000103608	1/2 - 1 Mile SE
CJ1344	CAOG17000103102	1/2 - 1 Mile ESE
CH1345	CAOG17000104331	1/2 - 1 Mile SE
CS1346	CAOG17000104206	1/2 - 1 Mile SE
CJ1347	CAOG17000101820	1/2 - 1 Mile ESE
CT1348	CAOG17000102443	1/2 - 1 Mile NW
CS1349	CAOG17000104164	1/2 - 1 Mile SE
CM1350	CAOG17000104587	1/2 - 1 Mile North
CN1351	CAOG17000101828	1/2 - 1 Mile ESE
CS1352	CAOG17000101848	1/2 - 1 Mile SE
CS1353	CAOG17000103898	1/2 - 1 Mile SE
CS1354	CAOG17000101167	1/2 - 1 Mile SE
CH1355	CAOG17000101767	1/2 - 1 Mile SE
CJ1356	CAOG17000103452	1/2 - 1 Mile ESE
CH1357	CAOG17000103593	1/2 - 1 Mile SE
CS1358	CAOG17000101852	1/2 - 1 Mile SE
CQ1359	CAOG17000104246	1/2 - 1 Mile NNE
CG1360	CAOG17000104506	1/2 - 1 Mile ESE
CJ1361	CAOG17000102555	1/2 - 1 Mile ESE
CM1362	CAOG17000104599	1/2 - 1 Mile North
CG1363	CAOG17000102552	1/2 - 1 Mile ESE
CH1364	CAOG17000103968	1/2 - 1 Mile SE
CU1365	CAOG17000104104	1/2 - 1 Mile North
CR1366	CAOG17000102576	1/2 - 1 Mile NE
CT1367	CAOG17000101241	1/2 - 1 Mile NW
CJ1368	CAOG17000103100	1/2 - 1 Mile ESE
CG1369	CAOG17000104507	1/2 - 1 Mile ESE
CO1370	CAOG17000102943	1/2 - 1 Mile ESE
CO1371	CAOG17000103104	1/2 - 1 Mile ESE
CP1372	CAOG17000103297	1/2 - 1 Mile NNE
CV1373	CAOG17000103321	1/2 - 1 Mile NNE
CG1374	CAOG17000102370	1/2 - 1 Mile ESE
CR1375	CAOG17000102634	1/2 - 1 Mile NE
CJ1376	CAOG17000102316	1/2 - 1 Mile ESE
CN1377	CAOG17000102334	1/2 - 1 Mile ESE
CN1378	CAOG17000102605	1/2 - 1 Mile ESE
CT1379	CAOG17000102444	1/2 - 1 Mile NW
CN1380	CAOG17000101830	1/2 - 1 Mile ESE
CN1381	CAOG17000101812	1/2 - 1 Mile ESE
CW1382	CAOG17000103262	1/2 - 1 Mile SE
CX1383	CAOG17000102385	1/2 - 1 Mile East
CS1384	CAOG17000104273	1/2 - 1 Mile SE
CS1385	CAOG17000104202	1/2 - 1 Mile SE
CV1386	CAOG17000104165	1/2 - 1 Mile NE
CY1387	CAOG17000103389	1/2 - 1 Mile ENE
CY1388	CAOG17000102581	1/2 - 1 Mile ENE
CS1389	CAOG17000104286	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CS1390	CAOG17000102485	1/2 - 1 Mile SE
CJ1391	CAOG17000104115	1/2 - 1 Mile ESE
CS1392	CAOG17000102553	1/2 - 1 Mile SE
CW1393	CAOG17000103227	1/2 - 1 Mile SE
CN1394	CAOG17000102328	1/2 - 1 Mile ESE
CX1395	CAOG17000102642	1/2 - 1 Mile East
CS1396	CAOG17000102358	1/2 - 1 Mile SE
CV1397	CAOG17000102712	1/2 - 1 Mile NNE
CN1398	CAOG17000102327	1/2 - 1 Mile ESE
CX1399	CAOG17000102405	1/2 - 1 Mile East
CW1400	CAOG17000102084	1/2 - 1 Mile SE
CQ1401	CAOG17000103333	1/2 - 1 Mile NNE
CN1402	CAOG17000101819	1/2 - 1 Mile ESE
CS1403	CAOG17000103085	1/2 - 1 Mile SE
CU1404	CAOG17000102911	1/2 - 1 Mile North
CZ1405	CAOG17000103113	1/2 - 1 Mile ESE
CS1406	CAOG17000104308	1/2 - 1 Mile SE
CW1407	CAOG17000103190	1/2 - 1 Mile SE
DA1408	CAOG17000104099	1/2 - 1 Mile NE
1409	CAOG17000104179	1/2 - 1 Mile NE
CV1410	CAOG17000102536	1/2 - 1 Mile NNE
CN1411	CAOG17000101792	1/2 - 1 Mile ESE
CT1412	CAOG17000102445	1/2 - 1 Mile NW
CQ1413	CAOG17000103331	1/2 - 1 Mile NNE
CS1414	CAOG17000103588	1/2 - 1 Mile SE
CZ1415	CAOG17000101824	1/2 - 1 Mile ESE
CZ1416	CAOG17000102408	1/2 - 1 Mile ESE
DB1417	CAOG17000103167	1/2 - 1 Mile NNE
CY1418	CAOG17000102770	1/2 - 1 Mile ENE
DC1419	CAOG17000102944	1/2 - 1 Mile ESE
CP1420	CAOG17000102590	1/2 - 1 Mile NNE
CO1421	CAOG17000101795	1/2 - 1 Mile ESE
DD1422	CAOG17000103390	1/2 - 1 Mile ENE
CS1423	CAOG17000102832	1/2 - 1 Mile SE
CW1424	CAOG17000102082	1/2 - 1 Mile SE
CQ1425	CAOG17000103351	1/2 - 1 Mile NNE
CP1426	CAOG17000102627	1/2 - 1 Mile NNE
CQ1427	CAOG17000102389	1/2 - 1 Mile NNE
CS1428	CAOG17000103454	1/2 - 1 Mile SE
CU1429	CAOG17000104584	1/2 - 1 Mile North
CQ1430	CAOG17000103370	1/2 - 1 Mile NNE
CQ1431	CAOG17000103367	1/2 - 1 Mile NNE
DD1432	CAOG17000103191	1/2 - 1 Mile ENE
CY1433	CAOG17000102767	1/2 - 1 Mile ENE
DD1434	CAOG17000103339	1/2 - 1 Mile ENE
CN1435	CAOG17000101790	1/2 - 1 Mile ESE
CZ1436	CAOG17000103895	1/2 - 1 Mile ESE
CY1437	CAOG17000102888	1/2 - 1 Mile ENE
DE1438	CAOG17000104585	1/2 - 1 Mile North
CO1439	CAOG17000101801	1/2 - 1 Mile ESE
CS1440	CAOG17000101855	1/2 - 1 Mile SE
DF1441	CAOG17000104618	1/2 - 1 Mile NNW
CZ1442	CAOG17000102501	1/2 - 1 Mile ESE
CU1443	CAOG17000104588	1/2 - 1 Mile North
DD1444	CAOG17000103961	1/2 - 1 Mile ENE
CY1445	CAOG17000103346	1/2 - 1 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
CT1446	CAOG17000102446	1/2 - 1 Mile NW
DC1447	CAOG17000102304	1/2 - 1 Mile ESE
CV1448	CAOG17000103274	1/2 - 1 Mile NNE
DD1449	CAOG17000103449	1/2 - 1 Mile ENE
CS1450	CAOG17000101853	1/2 - 1 Mile SE
CS1451	CAOG17000102551	1/2 - 1 Mile SE
CW1452	CAOG17000103609	1/2 - 1 Mile SE
DD1453	CAOG17000104261	1/2 - 1 Mile ENE
CP1454	CAOG17000102585	1/2 - 1 Mile NNE
CU1455	CAOG17000103396	1/2 - 1 Mile NNE
DC1456	CAOG17000103403	1/2 - 1 Mile ESE
CN1457	CAOG17000101794	1/2 - 1 Mile ESE
CN1458	CAOG17000101789	1/2 - 1 Mile ESE
CU1459	CAOG17000104038	1/2 - 1 Mile North
1460	CAOG17000104628	1/2 - 1 Mile NNW
CS1461	CAOG17000102363	1/2 - 1 Mile SE
CS1462	CAOG17000103408	1/2 - 1 Mile SE
CW1463	CAOG17000102594	1/2 - 1 Mile SE
CS1464	CAOG17000103409	1/2 - 1 Mile SE
DC1465	CAOG17000103109	1/2 - 1 Mile ESE
DC1466	CAOG17000102310	1/2 - 1 Mile ESE
DG1467	CAOG17000102344	1/2 - 1 Mile SE
DH1468	CAOG17000102672	1/2 - 1 Mile NNE
DE1469	CAOG17000104583	1/2 - 1 Mile North
DC1470	CAOG17000103106	1/2 - 1 Mile ESE
CT1471	CAOG17000102455	1/2 - 1 Mile NW
DC1472	CAOG17000101271	1/2 - 1 Mile ESE
CZ1473	CAOG17000102829	1/2 - 1 Mile ESE
DH1474	CAOG17000102711	1/2 - 1 Mile NNE
DI1475	CAOG17000102682	1/2 - 1 Mile NE
CZ1476	CAOG17000101807	1/2 - 1 Mile ESE
CV1477	CAOG17000102724	1/2 - 1 Mile NNE
DH1478	CAOG17000103304	1/2 - 1 Mile NNE
CW1479	CAOG17000103811	1/2 - 1 Mile SE
DC1480	CAOG17000104129	1/2 - 1 Mile ESE
DI1481	CAOG17000102614	1/2 - 1 Mile NE
DC1482	CAOG17000102315	1/2 - 1 Mile ESE
DJ1483	CAOG17000104275	1/2 - 1 Mile ESE
DA1484	CAOG17000102851	1/2 - 1 Mile NE
DI1485	CAOG17000104060	1/2 - 1 Mile NE
CY1486	CAOG17000103798	1/2 - 1 Mile ENE
DH1487	CAOG17000103269	1/2 - 1 Mile NNE
DF1488	CAOG17000104617	1/2 - 1 Mile NNW
CW1489	CAOG17000103944	1/2 - 1 Mile SE
DK1490	CAOG17000102942	1/2 - 1 Mile ESE
DB1491	CAOG17000102633	1/2 - 1 Mile NNE
DH1492	CAOG17000103341	1/2 - 1 Mile NNE
DH1493	CAOG17000103325	1/2 - 1 Mile NNE
DH1494	CAOG17000103369	1/2 - 1 Mile NNE
DA1495	CAOG17000102775	1/2 - 1 Mile NE
1496	CAOG17000103127	1/2 - 1 Mile East
DA1497	CAOG17000102630	1/2 - 1 Mile NE
DA1498	CAOG17000103853	1/2 - 1 Mile NE
DH1499	CAOG17000103349	1/2 - 1 Mile NNE
DG1500	CAOG17000102355	1/2 - 1 Mile SE
DC1501	CAOG17000102307	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DC1502	CAOG17000103421	1/2 - 1 Mile ESE
DG1503	CAOG17000102962	1/2 - 1 Mile SE
DA1504	CAOG17000103299	1/2 - 1 Mile NE
DG1505	CAOG17000104340	1/2 - 1 Mile SE
CZ1506	CAOG17000102335	1/2 - 1 Mile SE
DA1507	CAOG17000102874	1/2 - 1 Mile NE
DG1508	CAOG17000102484	1/2 - 1 Mile SE
DL1509	CAOG17000104608	1/2 - 1 Mile North
DG1510	CAOG17000101838	1/2 - 1 Mile SE
DG1511	CAOG17000102367	1/2 - 1 Mile SE
DG1512	CAOG17000102368	1/2 - 1 Mile SE
DM1513	CAOG17000103893	1/2 - 1 Mile SE
DK1514	CAOG17000101796	1/2 - 1 Mile ESE
DH1515	CAOG17000103173	1/2 - 1 Mile NNE
DG1516	CAOG17000104341	1/2 - 1 Mile SE
DG1517	CAOG17000103091	1/2 - 1 Mile SE
CZ1518	CAOG17000101808	1/2 - 1 Mile SE
DC1519	CAOG17000102544	1/2 - 1 Mile ESE
DL1520	CAOG17000104698	1/2 - 1 Mile North
DB1521	CAOG17000104321	1/2 - 1 Mile NNE
DA1522	CAOG17000102838	1/2 - 1 Mile NE
CZ1523	CAOG17000101813	1/2 - 1 Mile SE
DG1524	CAOG17000102345	1/2 - 1 Mile SE
DN1525	CAOG17000103229	1/2 - 1 Mile NE
DK1526	CAOG17000103110	1/2 - 1 Mile ESE
CZ1527	CAOG17000102949	1/2 - 1 Mile ESE
DC1528	CAOG17000102604	1/2 - 1 Mile ESE
DG1529	CAOG17000103412	1/2 - 1 Mile SE
DO1530	CAOG17000104268	1/2 - 1 Mile NNE
DK1531	CAOG17000102308	1/2 - 1 Mile ESE
DJ1532	CAOG17000102934	1/2 - 1 Mile ESE
DM1533	CAOG17000103591	1/2 - 1 Mile SE
DI1534	CAOG17000104237	1/2 - 1 Mile NE
DP1535	CAOG17000101555	1/2 - 1 Mile NW
DN1536	CAOG17000103350	1/2 - 1 Mile NE
DQ1537	CAOG17000101714	1/2 - 1 Mile North
DG1538	CAOG17000104114	1/2 - 1 Mile SE
DP1539	CAOG17000102456	1/2 - 1 Mile NW
DQ1540	CAOG17000104703	1/2 - 1 Mile North
DC1541	CAOG17000103710	1/2 - 1 Mile ESE
DC1542	CAOG17000101922	1/2 - 1 Mile ESE
DQ1543	CAOG17000104592	1/2 - 1 Mile North
DM1544	CAOG17000102331	1/2 - 1 Mile SE
DR1545	CAOG17000104317	1/2 - 1 Mile NNE
DP1546	CAOG17000102459	1/2 - 1 Mile NW
DO1547	CAOG17000103842	1/2 - 1 Mile NNE
DN1548	CAOG17000103152	1/2 - 1 Mile NE
DG1549	CAOG17000101825	1/2 - 1 Mile SE
DM1550	CAOG17000103092	1/2 - 1 Mile SE
DG1551	CAOG17000103090	1/2 - 1 Mile SE
DS1552	CAOG17000102409	1/2 - 1 Mile ESE
DG1553	CAOG17000102339	1/2 - 1 Mile SE
DI1554	CAOG17000103137	1/2 - 1 Mile NE
DT1555	CAOG17000102961	1/2 - 1 Mile NE
DP1556	CAOG17000103754	1/2 - 1 Mile NW
DU1557	CAOG17000104232	1/2 - 1 Mile NNE

STATE OIL/GAS WELL INFORMATION

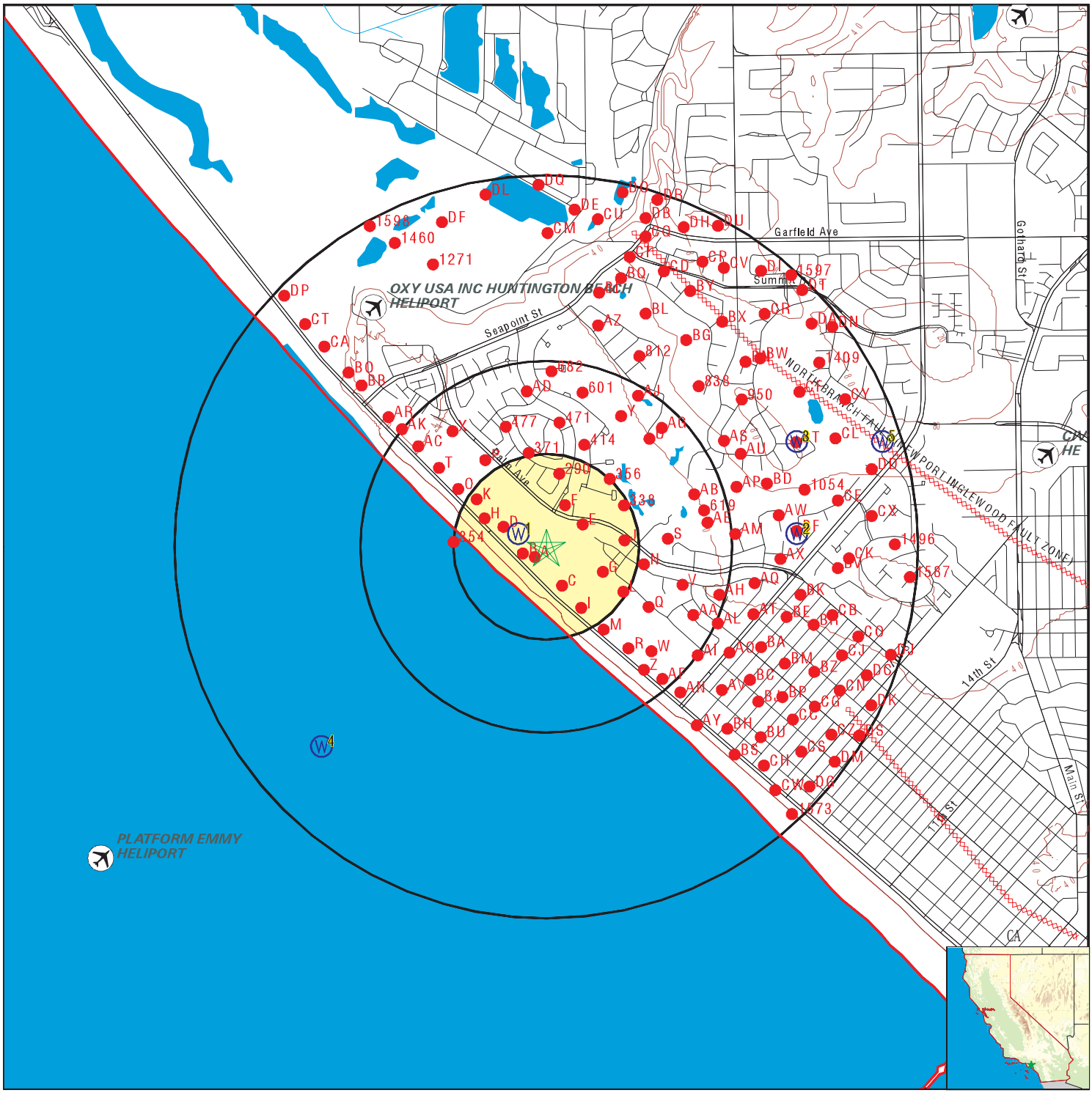
MAP ID	WELL ID	LOCATION FROM TP
DG1558	CAOG17000101859	1/2 - 1 Mile SE
DG1559	CAOG17000104407	1/2 - 1 Mile SE
DJ1560	CAOG17000104199	1/2 - 1 Mile ESE
DK1561	CAOG17000103107	1/2 - 1 Mile ESE
DG1562	CAOG17000103165	1/2 - 1 Mile SE
DN1563	CAOG17000103307	1/2 - 1 Mile NE
DK1564	CAOG17000101802	1/2 - 1 Mile ESE
DQ1565	CAOG17000104594	1/2 - 1 Mile North
DG1566	CAOG17000101832	1/2 - 1 Mile SE
DK1567	CAOG17000104260	1/2 - 1 Mile ESE
DP1568	CAOG17000103755	1/2 - 1 Mile NW
DH1569	CAOG17000104184	1/2 - 1 Mile NNE
DS1570	CAOG17000103289	1/2 - 1 Mile ESE
DG1571	CAOG17000103896	1/2 - 1 Mile SE
DK1572	CAOG17000102699	1/2 - 1 Mile ESE
1573	CAOG17000103610	1/2 - 1 Mile SE
DM1574	CAOG17000102323	1/2 - 1 Mile SE
DJ1575	CAOG17000101919	1/2 - 1 Mile ESE
DJ1576	CAOG17000103809	1/2 - 1 Mile ESE
DJ1577	CAOG17000103634	1/2 - 1 Mile ESE
DP1578	CAOG17000102457	1/2 - 1 Mile NW
DU1579	CAOG17000101781	1/2 - 1 Mile NNE
DG1580	CAOG17000102500	1/2 - 1 Mile SE
DK1581	CAOG17000101804	1/2 - 1 Mile ESE
DS1582	CAOG17000103450	1/2 - 1 Mile ESE
DN1583	CAOG17000103181	1/2 - 1 Mile NE
DG1584	CAOG17000104339	1/2 - 1 Mile SE
DQ1585	CAOG17000104595	1/2 - 1 Mile North
DG1586	CAOG17000101850	1/2 - 1 Mile SE
1587	CAOG17000102482	1/2 - 1 Mile East
DJ1588	CAOG17000103647	1/2 - 1 Mile ESE
DN1589	CAOG17000102532	1/2 - 1 Mile NE
DK1590	CAOG17000102247	1/2 - 1 Mile ESE
DP1591	CAOG17000101223	1/2 - 1 Mile NW
DJ1592	CAOG17000103762	1/2 - 1 Mile ESE
DM1593	CAOG17000102951	1/2 - 1 Mile SE
DR1594	CAOG17000102719	1/2 - 1 Mile NNE
DG1595	CAOG17000103414	1/2 - 1 Mile SE
DT1596	CAOG17000103142	1/2 - 1 Mile NE
1597	CAOG17000102756	1/2 - 1 Mile NE
1598	CAOG17000104647	1/2 - 1 Mile NNW
DN1599	CAOG17000103302	1/2 - 1 Mile NE
DM1600	CAOG17000101791	1/2 - 1 Mile SE
DP1601	CAOG17000103752	1/2 - 1 Mile NW
DS1602	CAOG17000101799	1/2 - 1 Mile ESE
DK1603	CAOG17000102250	1/2 - 1 Mile ESE
DO1604	CAOG17000104227	1/2 - 1 Mile NNE
DQ1605	CAOG17000101410	1/2 - 1 Mile North
DU1606	CAOG17000103348	1/2 - 1 Mile NNE
DK1607	CAOG17000102246	1/2 - 1 Mile ESE
DK1608	CAOG17000101925	1/2 - 1 Mile ESE
DK1609	CAOG17000101803	1/2 - 1 Mile ESE
DP1610	CAOG17000103753	1/2 - 1 Mile NW
DS1611	CAOG17000103448	1/2 - 1 Mile ESE
DL1612	CAOG17000104607	1/2 - 1 Mile North
DJ1613	CAOG17000102940	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
DR1614	CAOG17000104226	1/2 - 1 Mile NNE
DO1615	CAOG17000101749	1/2 - 1 Mile NNE
DK1616	CAOG17000101927	1/2 - 1 Mile ESE
DP1617	CAOG17000103775	1/2 - 1 Mile NW
DQ1618	CAOG17000101716	1/2 - 1 Mile North
DS1619	CAOG17000103674	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 8040226.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	CRC Huntington Beach	CLIENT:	Langan
ADDRESS:	20101 Goldenwest Street Huntington Beach CA 92648	CONTACT:	Katherine Thomas
LAT/LONG:	33.674487 / 118.023703	INQUIRY #:	8040226.2s
		DATE:	July 08, 2025 11:26 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
WNW
0 - 1/8 Mile
Higher

CA WELLS **CADWR0000010077**

Well ID:	06S11W03N001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	06S11W03N001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=06S11W03N001S&store_num=		
GeoTracker Data:	Not Reported		

2
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000029035**

Well ID:	06S11W03R002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	06S11W03R002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=06S11W03R002S&store_num=		
GeoTracker Data:	Not Reported		

3
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000029461**

Well ID:	06S11W03J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	06S11W03J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=06S11W03J001S&store_num=		
GeoTracker Data:	Not Reported		

4
SW
1/2 - 1 Mile
Lower

CA WELLS **6320**

Seq:	6320	Prim sta c:	05S/11W-09J01 S
Frds no:	3010053008	County:	30
District:	08	User id:	TEE
System no:	3010053	Water type:	G
Source nam:	WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334000.0	Longitude:	1180200.0
Precision:	5	Status:	AU
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:	3010053	System nam:	City Of Huntington Beach

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hqname:	Not Reported	Address:	PO BOX 190
City:	HUNTINGTON BEACH	State:	CA
Zip:	92648	Zip ext:	Not Reported
Pop serv:	192000	Connection:	49209
Area serve:	HUNTINGTON BEACH		

Sample date:	25-OCT-17	Finding:	0.25
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	0.25
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	720.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	0.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	25-OCT-17	Finding:	0.25
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	0.66
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	378.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	116.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	21.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	77.4
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	4.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	214.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	25-OCT-17	Finding:	66.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	25-OCT-17	Finding:	0.43
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	25-OCT-17	Finding:	157.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-OCT-17	Finding:	1110.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-OCT-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-OCT-17	Finding:	164.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-OCT-17	Finding:	164.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	0.41
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	19-SEP-17	Finding:	392.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	119.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	22.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	81.4
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	4.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	231.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	69.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-SEP-17	Finding:	0.44
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-SEP-17	Finding:	160.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	19-SEP-17	Finding:	24.7
Chemical:	MANGANESE	Report units:	UG/L

Dlr:	20.		
Sample date:	19-SEP-17	Finding:	1.1
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	19-SEP-17	Finding:	700.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	0.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-SEP-17	Finding:	2.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	0.75
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	1150.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	155.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-17	Finding:	189.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUL-16	Finding:	0.69
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	30-JUL-15	Finding:	0.38
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	51.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	30-JUL-15	Finding:	0.39
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	30-JUL-15	Finding:	414.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	784.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	159.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	159.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	258.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	80.7
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	13.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-15	Finding:	57.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-MAY-15	Finding:	0.29
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-AUG-14	Finding:	1.43
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	0.501
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	3.69
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-AUG-14	Finding:	1.24
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	06-AUG-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	06-AUG-14	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	4.e-002
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	06-AUG-14	Finding:	0.261
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	1.11
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-SEP-13	Finding:	659.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	716.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	0.25
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	400.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	51.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-AUG-13	Finding:	98.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	52.1
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	11.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	68.7
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	154.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	22-AUG-13	Finding:	154.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-AUG-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	657.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	0.27
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	374.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	47.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-FEB-13	Finding:	80.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	47.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	11.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	64.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	159.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	159.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	89.6
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	07-AUG-12	Finding:	49.3
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-AUG-12	Finding:	0.34
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-AUG-12	Finding:	378.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-AUG-12	Finding:	156.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	156.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.49
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	225.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	71.8
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	11.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	56.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	671.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	0.45
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	15-MAY-12	Finding:	566.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	24.5
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	15-MAY-12	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	0.43
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	15-MAY-12	Finding:	130.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	54.3
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	14.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	86.9
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	278.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	193.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	158.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	832.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-MAY-12	Finding:	55.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-FEB-12	Finding:	392.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	01-FEB-12	Finding:	60.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	01-FEB-12	Finding:	97.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	51.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	0.35
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	72.9
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	153.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	153.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	697.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-FEB-12	Finding:	11.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

5
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000037789**

Well ID:	06S11W02M002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	06S11W02M002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=06S11W02M002S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
NE
0 - 1/8 Mile

OIL_GAS **CAOG17000104318**

OIL_GAS:

API #:	0405903757	Well #:	96
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 96
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903757		

A2
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101270**

OIL_GAS:

API #:	0405921510	Well #:	6
Well Type:	Water Source	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 6
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921510		

A3
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101272**

OIL_GAS:

API #:	0405921511	Well #:	6-A
Well Type:	Water Source	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 6-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921511		

Map ID
Direction
Distance

Database EDR ID Number

A4
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000103301**

OIL_GAS:

API #:	0405920918	Well #:	253
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 253
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920918		

A5
South
0 - 1/8 Mile

OIL_GAS **CAOG17000102525**

OIL_GAS:

API #:	0405904529	Well #:	114
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 114
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904529		

A6
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000101610**

OIL_GAS:

API #:	0405921723	Well #:	722
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 722
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	11/25/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921723		

Map ID
Direction
Distance

Database EDR ID Number

A7
South
0 - 1/8 Mile

OIL_GAS **CAOG17000103211**

OIL_GAS:

API #:	0405903875	Well #:	225
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 225
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903875		

A8
West
0 - 1/8 Mile

OIL_GAS **CAOG17000103168**

OIL_GAS:

API #:	0405903858	Well #:	210
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 210
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903858		

A9
NE
0 - 1/8 Mile

OIL_GAS **CAOG17000103805**

OIL_GAS:

API #:	0405903712	Well #:	44
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 44
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903712		

A10
ENE
0 - 1/8 Mile

OIL_GAS **CAOG17000102876**

OIL_GAS:

API #:	0405903841	Well #:	191
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 191
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903841		

A11
SSW **OIL_GAS** **CAOG17000103131**
0 - 1/8 Mile

OIL_GAS:

API #:	0405907911	Well #:	20
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907911		

A12
SW **OIL_GAS** **CAOG17000101697**
0 - 1/8 Mile

OIL_GAS:

API #:	0405902807	Well #:	J-19C
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-19C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902807		

A13
SW **OIL_GAS** **CAOG17000104461**
0 - 1/8 Mile

OIL_GAS:

API #:	0405902808	Well #:	J-20C
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-20C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore

Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902808		

A14
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000104462**

OIL_GAS:

API #:	0405902809	Well #:	J-21
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902809		

A15
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000104716**

OIL_GAS:

API #:	0405921137	Well #:	T-35
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-35
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/06/1982		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921137		

A16
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000101371**

OIL_GAS:

API #:	0405902806	Well #:	J-18C
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-18C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902806		

Map ID
Direction
Distance

Database EDR ID Number

A17
WSW **OIL_GAS** **CAOG17000104425**
0 - 1/8 Mile

OIL_GAS:

API #:	0405902886	Well #:	J-119
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-119
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902886		

A18
ENE **OIL_GAS** **CAOG17000102535**
0 - 1/8 Mile

OIL_GAS:

API #:	0405903778	Well #:	119
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 119
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903778		

A19
SSW **OIL_GAS** **CAOG17000104475**
0 - 1/8 Mile

OIL_GAS:

API #:	0405902824	Well #:	J-41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-41
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902824		

Map ID
Direction
Distance

Database EDR ID Number

A20
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104158**

OIL_GAS:

API #:	0405903737	Well #:	71
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 71
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903737		

A21
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104153**

OIL_GAS:

API #:	0405903736	Well #:	70
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 70
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903736		

A22
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104476**

OIL_GAS:

API #:	0405902825	Well #:	J-42A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-42A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902825		

Map ID
Direction
Distance

Database EDR ID Number

A23
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101196**

OIL_GAS:

API #:	0405921699	Well #:	3
Well Type:	Water Source	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921699		

A24
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104630**

OIL_GAS:

API #:	0405902978	Well #:	S-65
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-65
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902978		

A25
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101450**

OIL_GAS:

API #:	0405902920	Well #:	UJ-181
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-181
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902920		

Map ID
Direction
Distance

Database EDR ID Number

A26
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000104567**

OIL_GAS:

API #:	0405903137	Well #:	S-153
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-153
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903137		

A27
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000101440**

OIL_GAS:

API #:	0405903125	Well #:	T-3
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903125		

A28
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000101696**

OIL_GAS:

API #:	0405903094	Well #:	J-149
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-149
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903094		

Map ID
Direction
Distance

Database EDR ID Number

A29
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000101397**

OIL_GAS:

API #:	0405902869	Well #:	J-99
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-99
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902869		

A30
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000101459**

OIL_GAS:

API #:	0405920916	Well #:	UJ-275
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-275
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920916		

A31
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101443**

OIL_GAS:

API #:	0405921155	Well #:	T-44
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-44
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921155		

Map ID
Direction
Distance

Database EDR ID Number

A32
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000104738**

OIL_GAS:

API #:	0405902911	Well #:	UJ-191
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-191
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902911		

A33
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104457**

OIL_GAS:

API #:	0405902830	Well #:	J-194
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-194
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902830		

A34
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000104744**

OIL_GAS:

API #:	0405920762	Well #:	UJ-259
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-259
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920762		

Map ID
Direction
Distance

Database EDR ID Number

A35
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101460**

OIL_GAS:

API #:	0405920921	Well #:	UJ-276
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-276
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920921		

A36
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000103937**

OIL_GAS:

API #:	0405903078	Well #:	514B
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 514B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903078		

A37
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000103613**

OIL_GAS:

API #:	0405921353	Well #:	34WD
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Lease by California Resources Production Corporation		
Well Design:	34WD	Operator ID:	C0885
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921353		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A38
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101125**

OIL_GAS:

API #:	0405921323	Well #:	UJ-294
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 425	Well Design:	State Prc 425 UJ-294
Operator ID:	S3100	Operator Name:	Shell Western E&P Inc.
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921323		

B39
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101464**

OIL_GAS:

API #:	0405921373	Well #:	UJ-294
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-294
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921373		

A40
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101622**

OIL_GAS:

API #:	0405921735	Well #:	734 I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 734 I
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921735		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A41
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101287**

OIL_GAS:

API #:	0405921740	Well #:	739
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 739
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	10/03/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921740		

A42
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101364**

OIL_GAS:

API #:	0405902905	Well #:	J-140A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-140A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902905		

B43
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104707**

OIL_GAS:

API #:	0405920652	Well #:	T-14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-14
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920652		

Map ID
Direction
Distance

Database EDR ID Number

B44
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104748**

OIL_GAS:

API #:	0405920784	Well #:	UJ-264
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-264
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920784		

B45
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104649**

OIL_GAS:

API #:	0405902991	Well #:	S-78
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-78
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902991		

A46
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101286**

OIL_GAS:

API #:	0405921739	Well #:	738
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 738
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/27/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921739		

Map ID
Direction
Distance

Database EDR ID Number

B47
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101446**

OIL_GAS:

API #:	0405900114	Well #:	UJ-148C
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-148C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900114		

A48
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101624**

OIL_GAS:

API #:	0405921738	Well #:	737I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 737I
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921738		

B50
West
0 - 1/8 Mile

OIL_GAS **CAOG17000103649**

OIL_GAS:

API #:	0405921556	Well #:	3A
Well Type:	Water Source	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 3A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921556		

Map ID
Direction
Distance

Database EDR ID Number

B49
West
0 - 1/8 Mile

OIL_GAS **CAOG17000102404**

OIL_GAS:

API #:	0405921513	Well #:	10
Well Type:	Water Source	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 10
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921513		

B51
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101404**

OIL_GAS:

API #:	0405903135	Well #:	S-160
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-160
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903135		

B52
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104640**

OIL_GAS:

API #:	0405902985	Well #:	S-72A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-72A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902985		

Map ID
Direction
Distance

Database EDR ID Number

B53
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101428**

OIL_GAS:

API #:	0405902921	Well #:	S-9
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902921		

B54
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101285**

OIL_GAS:

API #:	0425921737	Well #:	736
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 736
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/17/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25921737		

B55
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101123**

OIL_GAS:

API #:	0405921766	Well #:	736
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 426	Well Design:	State Prc 426 736
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921766		

Map ID
Direction
Distance

Database EDR ID Number

B56
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104736**

OIL_GAS:

API #:	0405920685	Well #:	UJ-187
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 UJ-187
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920685		

B57
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101122**

OIL_GAS:

API #:	0405921765	Well #:	735
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 425	Well Design:	State Prc 425 735
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921765		

B58
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101623**

OIL_GAS:

API #:	0405921736	Well #:	735
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 735
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/18/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921736		

Map ID
Direction
Distance

Database EDR ID Number

B59
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104642**

OIL_GAS:

API #:	0405902986	Well #:	S-73
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-73
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902986		

B60
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101115**

OIL_GAS:

API #:	0405921705	Well #:	700
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 392	Well Design:	State Prc 392 700
Operator ID:	O2475	Operator Name:	Oxy USA Inc.
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Operator
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921705		

B61
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104598**

OIL_GAS:

API #:	0405902942	Well #:	S-32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-32
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902942		

Map ID
Direction
Distance

Database EDR ID Number

B62
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104730**

OIL_GAS:

API #:	0405920051	Well #:	UJ-171A
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-171A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920051		

B63
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101621**

OIL_GAS:

API #:	0405921734	Well #:	733
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 733
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/08/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921734		

A64
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000104499**

OIL_GAS:

API #:	0405900424	Well #:	J-96B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-96B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900424		

Map ID
Direction
Distance

Database EDR ID Number

B65
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000101424**

OIL_GAS:

API #:	0405902987	Well #:	S-74A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-74A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902987		

B66
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101620**

OIL_GAS:

API #:	0405921733	Well #:	732
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 732
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/17/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921733		

B67
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000104575**

OIL_GAS:

API #:	0405920966	Well #:	S-169
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-169
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920966		

Map ID
Direction
Distance

Database EDR ID Number

B68
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101449**

OIL_GAS:

API #:	0405903124	Well #:	UJ-176
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-176
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903124		

B69
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101121**

OIL_GAS:

API #:	0405921764	Well #:	731
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 392	Well Design:	State Prc 392 731
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921764		

B70
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101619**

OIL_GAS:

API #:	0405921732	Well #:	731
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 731
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/30/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921732		

Map ID
Direction
Distance

Database EDR ID Number

B71
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104614**

OIL_GAS:

API #:	0405900118	Well #:	S-51
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-51
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900118		

B72
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104465**

OIL_GAS:

API #:	0405920972	Well #:	J-280A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-280A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920972		

B73
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101425**

OIL_GAS:

API #:	0405902988	Well #:	S-75B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-75B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902988		

Map ID
Direction
Distance

Database EDR ID Number

B74
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101618**

OIL_GAS:

API #:	0405921731	Well #:	730
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 730
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/21/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921731		

B75
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101439**

OIL_GAS:

API #:	0405921182	Well #:	T-28
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-28
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921182		

B76
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101616**

OIL_GAS:

API #:	0405921730	Well #:	729
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 729
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	11/28/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921730		

Map ID
Direction
Distance

Database EDR ID Number

B77
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101407**

OIL_GAS:

API #:	0405902821	Well #:	S-164
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-164
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902821		

B78
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101448**

OIL_GAS:

API #:	0405920649	Well #:	UJ-174A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-174A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920649		

C79
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000101254**

OIL_GAS:

API #:	0405921509	Well #:	5-A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 5-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921509		

Map ID
Direction
Distance

Database EDR ID Number

B80
West
0 - 1/8 Mile

OIL_GAS **CAOG17000002061**

OIL_GAS:

API #:	0425921729	Well #:	728
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 728
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Any Field	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/10/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25921729		

B81
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101368**

OIL_GAS:

API #:	0405902965	Well #:	J-180
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-180
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902965		

B82
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104745**

OIL_GAS:

API #:	0405902989	Well #:	UJ-260
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-260
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902989		

Map ID
Direction
Distance

Database EDR ID Number

B83
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101612**

OIL_GAS:

API #:	0405921725	Well #:	724
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 724
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/09/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921725		

C84
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000101252**

OIL_GAS:

API #:	0405921508	Well #:	5
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 5
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921508		

B85
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104436**

OIL_GAS:

API #:	0405902904	Well #:	J-139
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-139
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902904		

Map ID
Direction
Distance

Database EDR ID Number

B86
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104715**

OIL_GAS:

API #:	0405921112	Well #:	T-33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-33
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/31/1981		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921112		

B87
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101614**

OIL_GAS:

API #:	0405921727	Well #:	726
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 726
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/23/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921727		

B88
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000101613**

OIL_GAS:

API #:	0405921726	Well #:	725
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 725
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/04/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921726		

Map ID
Direction
Distance

Database EDR ID Number

B89
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104478**

OIL_GAS:

API #:	0405904527	Well #:	J-44
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-44
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904527		

B90
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104451**

OIL_GAS:

API #:	0405902966	Well #:	J-169
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-169
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902966		

B91
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101726**

OIL_GAS:

API #:	0405903005	Well #:	S-92A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-92A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903005		

Map ID
Direction
Distance

Database EDR ID Number

B92
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104708**

OIL_GAS:

API #:	0405902865	Well #:	T-18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902865		

C93
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104579**

OIL_GAS:

API #:	0405920986	Well #:	S-172
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-172
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920986		

B94
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000101611**

OIL_GAS:

API #:	0405921724	Well #:	723
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 723
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	01/02/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921724		

Map ID
Direction
Distance

Database EDR ID Number

C95
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104477**

OIL_GAS:

API #:	0405900104	Well #:	J-43A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-43A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900104		

B96
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101727**

OIL_GAS:

API #:	0405903006	Well #:	S-93B
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-93B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903006		

B97
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104723**

OIL_GAS:

API #:	0405903080	Well #:	T-7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-7
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903080		

Map ID
Direction
Distance

Database EDR ID Number

B98
South **OIL_GAS** **CAOG17000104746**
0 - 1/8 Mile

OIL_GAS:

API #:	0405920773	Well #:	UJ-261
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-261
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920773		

B99
WNW **OIL_GAS** **CAOG17000101609**
0 - 1/8 Mile

OIL_GAS:

API #:	0405921722	Well #:	721
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 721
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	08/18/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921722		

D100
NW **OIL_GAS** **CAOG17000104775**
0 - 1/8 Mile

OIL_GAS:

API #:	0405907898	Well #:	WS-3
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	WS-3	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Huntington Beach
Area Name:	Onshore	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907898		

Map ID
Direction
Distance

Database EDR ID Number

B101
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104755**

OIL_GAS:

API #:	0405902990	Well #:	UJ-293
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-293
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902990		

B102
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000101284**

OIL_GAS:

API #:	0405921721	Well #:	720
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 720
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/16/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921721		

C103
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101732**

OIL_GAS:

API #:	0405921136	Well #:	T-34
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-34
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921136		

Map ID
Direction
Distance

Database EDR ID Number

C104
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104611**

OIL_GAS:

API #:	0405902959	Well #:	S-46A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-46A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902959		

B105
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104724**

OIL_GAS:

API #:	0405903086	Well #:	T-8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-8
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903086		

B106
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101406**

OIL_GAS:

API #:	0405903085	Well #:	S-162
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-162
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903085		

Map ID
Direction
Distance

Database EDR ID Number

C107
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104498**

OIL_GAS:

API #:	0405902866	Well #:	J-95A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-95A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902866		

B108
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104747**

OIL_GAS:

API #:	0405920778	Well #:	UJ-263
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-263
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920778		

B109
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104011**

OIL_GAS:

API #:	0405904159	Well #:	59
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 59
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904159		

Map ID
Direction
Distance

Database EDR ID Number

B110
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104419**

OIL_GAS:

API #:	0405902878	Well #:	J-109B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-109B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902878		

B111
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000103829**

OIL_GAS:

API #:	0405904074	Well #:	47
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 47
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904074		

C112
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104393**

OIL_GAS:

API #:	0405902805	Well #:	CJ-17B
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-17B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902805		

Map ID
Direction
Distance

Database EDR ID Number

C113
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104603**

OIL_GAS:

API #:	0405902946	Well #:	S-37A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-37A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902946		

B114
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104710**

OIL_GAS:

API #:	0405903126	Well #:	T-2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903126		

B115
West
0 - 1/8 Mile

OIL_GAS **CAOG17000104006**

OIL_GAS:

API #:	0405903127	Well #:	582
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 582
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903127		

Map ID
Direction
Distance

Database EDR ID Number

C116
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101350**

OIL_GAS:

API #:	0405903049	Well #:	CJ-179
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-179
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903049		

B117
West
0 - 1/8 Mile

OIL_GAS **CAOG17000101454**

OIL_GAS:

API #:	0405920721	Well #:	UJ-253
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-253
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920721		

C118
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104602**

OIL_GAS:

API #:	0405902945	Well #:	S-36A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-36A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902945		

Map ID
Direction
Distance

Database EDR ID Number

C119
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104452**

OIL_GAS:

API #:	0405902804	Well #:	J-16C
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-16C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902804		

E120
ENE
0 - 1/8 Mile

OIL_GAS **CAOG17000102531**

OIL_GAS:

API #:	0405903776	Well #:	117
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 117
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903776		

C121
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000103760**

OIL_GAS:

API #:	0405903709	Well #:	41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 41
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903709		

Map ID
Direction
Distance

Database EDR ID Number

C122
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104570**

OIL_GAS:

API #:	0405902862	Well #:	S-157
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-157
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902862		

B123
SW
0 - 1/8 Mile

OIL_GAS **CAOG17000103256**

OIL_GAS:

API #:	0405904057	Well #:	24
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 24
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904057		

B124
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104168**

OIL_GAS:

API #:	0405903739	Well #:	73
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 73
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903739		

Map ID
Direction
Distance

Database EDR ID Number

C125
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000101370**

OIL_GAS:

API #:	0405902941	Well #:	J-184
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-184
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902941		

C126
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101457**

OIL_GAS:

API #:	0405920801	Well #:	UJ-269A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-269A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920801		

C127
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101351**

OIL_GAS:

API #:	0405902803	Well #:	CJ-196A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-196A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902803		

Map ID
Direction
Distance

Database EDR ID Number

C128
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104770**

OIL_GAS:

API #:	0405902863	Well #:	UJ-91C
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-91C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902863		

C129
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000103270**

OIL_GAS:

API #:	0405920346	Well #:	243
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 243
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920346		

B130
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000103819**

OIL_GAS:

API #:	0405904073	Well #:	46
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 46
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904073		

Map ID
Direction
Distance

Database EDR ID Number

C131
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101396**

OIL_GAS:

API #:	0405900110	Well #:	J-93C
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-93C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900110		

C132
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000104634**

OIL_GAS:

API #:	0405902919	Well #:	S-7
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-7
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902919		

C133
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000104571**

OIL_GAS:

API #:	0405902802	Well #:	S-158
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-158
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902802		

Map ID
Direction
Distance

Database EDR ID Number

C134
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000102854**

OIL_GAS:

API #:	0405903839	Well #:	189
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 189
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903839		

C135
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101458**

OIL_GAS:

API #:	0405920911	Well #:	UJ-274
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-274
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920911		

C136
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000104299**

OIL_GAS:

API #:	0405903753	Well #:	92
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 92
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903753		

Map ID
Direction
Distance

Database EDR ID Number

C137
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000104704**

OIL_GAS:

API #:	0405903047	Well #:	T-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903047		

C138
South
0 - 1/8 Mile

OIL_GAS **CAOG17000104497**

OIL_GAS:

API #:	0405902864	Well #:	J-92A
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-92A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902864		

B139
WSW
0 - 1/8 Mile

OIL_GAS **CAOG17000103285**

OIL_GAS:

API #:	0405904058	Well #:	25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 25
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904058		

Map ID
Direction
Distance

Database EDR ID Number

C140
South
0 - 1/8 Mile

OIL_GAS **CAOG17000101401**

OIL_GAS:

API #:	0405903048	Well #:	S-135B
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-135B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903048		

E141
NE
0 - 1/8 Mile

OIL_GAS **CAOG17000103303**

OIL_GAS:

API #:	0405921085	Well #:	254
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 254
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921085		

C142
SSW
0 - 1/8 Mile

OIL_GAS **CAOG17000103223**

OIL_GAS:

API #:	0405904056	Well #:	23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 23
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904056		

Map ID
Direction
Distance

Database EDR ID Number

E143
NNE
0 - 1/8 Mile

OIL_GAS **CAOG17000103278**

OIL_GAS:

API #:	0405920534	Well #:	247
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 247
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920534		

D144
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104510**

OIL_GAS:

API #:	0405902922	Well #:	S-10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-10
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902922		

E145
NE
0 - 1/8 Mile

OIL_GAS **CAOG17000103326**

OIL_GAS:

API #:	0405921208	Well #:	263
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 263
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921208		

Map ID
Direction
Distance

Database EDR ID Number

D146
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104574**

OIL_GAS:

API #:	0405920906	Well #:	S-168
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-168
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920906		

F147
NNE
0 - 1/8 Mile

OIL_GAS **CAOG17000102757**

OIL_GAS:

API #:	0405903813	Well #:	161
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 161
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903813		

D148
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104500**

OIL_GAS:

API #:	0405902867	Well #:	J-97A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-97A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902867		

Map ID
Direction
Distance

Database EDR ID Number

D149
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104467**

OIL_GAS:

API #:	0405921071	Well #:	J-291
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-291
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921071		

E150
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000103169**

OIL_GAS:

API #:	0405903859	Well #:	211
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 211
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903859		

F151
NNE
0 - 1/8 Mile

OIL_GAS **CAOG17000103277**

OIL_GAS:

API #:	0405920535	Well #:	246-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 246-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920535		

Map ID
Direction
Distance

Database EDR ID Number

C152
SSE
0 - 1/8 Mile

OIL_GAS **CAOG17000104101**

OIL_GAS:

API #:	0405903735	Well #:	69-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 69-B
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903735		

D153
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104479**

OIL_GAS:

API #:	0405902826	Well #:	J-45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-45
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902826		

D154
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000101352**

OIL_GAS:

API #:	0405921036	Well #:	CJ-286
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 CJ-286
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921036		

Map ID
Direction
Distance

Database EDR ID Number

D155
NNW
0 - 1/8 Mile

OIL_GAS **CAOG17000103646**

OIL_GAS:

API #:	0405903526	Well #:	39
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 39
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903526		

F156
NNE
0 - 1/8 Mile

OIL_GAS **CAOG17000102765**

OIL_GAS:

API #:	0405903816	Well #:	164-X
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 164-X
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903816		

D157
WNW
0 - 1/8 Mile

OIL_GAS **CAOG17000104491**

OIL_GAS:

API #:	0405902851	Well #:	J-77
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-77
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902851		

Map ID
Direction
Distance

Database EDR ID Number

C158
ESE
0 - 1/8 Mile

OIL_GAS **CAOG17000102835**

OIL_GAS:

API #:	0405903831	Well #:	180
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 180
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903831		

G159
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103246**

OIL_GAS:

API #:	0405920026	Well #:	236
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 236
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920026		

D160
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101384**

OIL_GAS:

API #:	0405902828	Well #:	J-46D
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-46D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902828		

Map ID
Direction
Distance

Database EDR ID Number

D161
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104674**

OIL_GAS:

API #:	0405903007	Well #:	S-94
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-94
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903007		

C162
South
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103548**

OIL_GAS:

API #:	0405904064	Well #:	31
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 31
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904064		

D163
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101738**

OIL_GAS:

API #:	0405920774	Well #:	UJ-262
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-262
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920774		

Map ID
Direction
Distance

Database EDR ID Number

D164
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104473**

OIL_GAS:

API #:	0405900102	Well #:	J-36C
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-36C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900102		

E165
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102440**

OIL_GAS:

API #:	0405903761	Well #:	100-B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 100-B
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903761		

D166
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104750**

OIL_GAS:

API #:	0405920954	Well #:	UJ-267
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-267
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920954		

Map ID
Direction
Distance

Database EDR ID Number

C167
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102462**

OIL_GAS:

API #:	0405903763	Well #:	102
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 102
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903763		

C168
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104468**

OIL_GAS:

API #:	0405921371	Well #:	J-295
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-295
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921371		

D169
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101693**

OIL_GAS:

API #:	0405902870	Well #:	CJ-78
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-78
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902870		

Map ID
Direction
Distance

Database EDR ID Number

D170
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101634**

OIL_GAS:

API #:	0405921757	Well #:	750I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 750I
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/01/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921757		

C171
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103294**

OIL_GAS:

API #:	0405920883	Well #:	250
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 250
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920883		

E172
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103322**

OIL_GAS:

API #:	0405921197	Well #:	261
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 261
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921197		

Map ID
Direction
Distance

Database EDR ID Number

E173
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103810**

OIL_GAS:

API #:	0405903713	Well #:	45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 45
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903713		

C174
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104432**

OIL_GAS:

API #:	0405902894	Well #:	J-128
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-128
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902894		

E175
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103310**

OIL_GAS:

API #:	0405921194	Well #:	259
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 259
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921194		

Map ID
Direction
Distance

Database EDR ID Number

E176
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103328**

OIL_GAS:

API #:	0405921201	Well #:	264
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 264
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921201		

D177
NW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102850**

OIL_GAS:

API #:	0405903837	Well #:	187
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 187
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903837		

C178
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101126**

OIL_GAS:

API #:	0405921504	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921504		

Map ID
Direction
Distance

Database EDR ID Number

F179
NNE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103330**

OIL_GAS:

API #:	0405921196	Well #:	266
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 266
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921196		

C180
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101154**

OIL_GAS:

API #:	0405921505	Well #:	1-A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 1-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921505		

D181
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104764**

OIL_GAS:

API #:	0405902833	Well #:	UJ-53D
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-53D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902833		

Map ID
Direction
Distance

Database EDR ID Number

C182
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101291**

OIL_GAS:

API #:	0405921773	Well #:	755
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 755
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/09/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921773		

C183
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104424**

OIL_GAS:

API #:	0405902884	Well #:	J-117A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-117A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902884		

C184
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101433**

OIL_GAS:

API #:	0405920650	Well #:	T-12
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-12
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920650		

Map ID
Direction
Distance

Database EDR ID Number

D185
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104741**

OIL_GAS:

API #:	0405920917	Well #:	UJ-254
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-254
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920917		

D186
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101469**

OIL_GAS:

API #:	0405900930	Well #:	UJ-73B
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-73B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900930		

D187
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101636**

OIL_GAS:

API #:	0405921762	Well #:	754 I
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 754 I
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921762		

Map ID
Direction
Distance

Database EDR ID Number

C188
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101209**

OIL_GAS:

API #:	0405921516	Well #:	33
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 33
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921516		

D189
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104495**

OIL_GAS:

API #:	0405902857	Well #:	J-85B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-85B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902857		

C190
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104433**

OIL_GAS:

API #:	0405901300	Well #:	J-129A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-129A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901300		

Map ID
Direction
Distance

Database EDR ID Number

D191
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104463**

OIL_GAS:

API #:	0405900207	Well #:	J-22B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-22B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900207		

C192
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104610**

OIL_GAS:

API #:	0405902958	Well #:	S-45A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-45A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902958		

D193
NW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104776**

OIL_GAS:

API #:	0405907899	Well #:	WS-4
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	WS-4	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Huntington Beach
Area Name:	Onshore	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907899		

Map ID
Direction
Distance

Database EDR ID Number

D194
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101737**

OIL_GAS:

API #:	0405920732	Well #:	UJ-256
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-256
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920732		

E195
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102511**

OIL_GAS:

API #:	0405903771	Well #:	110
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 110
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903771		

C196
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104731**

OIL_GAS:

API #:	0405903046	Well #:	UJ-172
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-172
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903046		

Map ID
Direction
Distance

Database EDR ID Number

D197
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104725**

OIL_GAS:

API #:	0405900100	Well #:	T-9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900100		

C198
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104609**

OIL_GAS:

API #:	0405902957	Well #:	S-44A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-44A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902957		

C199
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104714**

OIL_GAS:

API #:	0405920978	Well #:	T-31
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-31
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920978		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

H200
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101392**

OIL_GAS:

API #:	0405902848	Well #:	J-74B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-74B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902848		

D201
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101289**

OIL_GAS:

API #:	0405921760	Well #:	751I
Well Type:	Injection	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 751I
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/06/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921760		

D202
NW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102450**

OIL_GAS:

API #:	0405903762	Well #:	101
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 101
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903762		

Map ID
Direction
Distance

Database EDR ID Number

C203
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104398**

OIL_GAS:

API #:	0405920980	Well #:	CJ-281
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-281
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920980		

C204
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104496**

OIL_GAS:

API #:	0405902861	Well #:	J-89B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-89B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902861		

C205
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101416**

OIL_GAS:

API #:	0405902956	Well #:	S-43A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-43A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902956		

Map ID
Direction
Distance

Database EDR ID Number

C206
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101731**

OIL_GAS:

API #:	0405921154	Well #:	T-25
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-25
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921154		

D207
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101385**

OIL_GAS:

API #:	0405902829	Well #:	J-47B
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-47B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902829		

D208
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104717**

OIL_GAS:

API #:	0405921153	Well #:	T-36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-36
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921153		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

H209
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101393**

OIL_GAS:

API #:	0405902849	Well #:	J-75A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-75A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902849		

E210
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103820**

OIL_GAS:

API #:	0405903714	Well #:	46
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 46
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903714		

C211
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101292**

OIL_GAS:

API #:	0405921771	Well #:	756
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 756
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/11/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921771		

Map ID
Direction
Distance

Database EDR ID Number

C212
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104553**

OIL_GAS:

API #:	0405903045	Well #:	S-132B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-132B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903045		

H213
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104480**

OIL_GAS:

API #:	0405900105	Well #:	J-49D
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-49D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900105		

C214
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101415**

OIL_GAS:

API #:	0405902950	Well #:	S-42B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-42B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902950		

Map ID
Direction
Distance

Database EDR ID Number

C215
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101293**

OIL_GAS:

API #:	0405921769	Well #:	757
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 757
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/10/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921769		

H216
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104395**

OIL_GAS:

API #:	0405902996	Well #:	CJ-197
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-197
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902996		

H217
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101456**

OIL_GAS:

API #:	0405920792	Well #:	UJ-266
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-266
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920792		

Map ID
Direction
Distance

Database EDR ID Number

I218
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101463**

OIL_GAS:

API #:	0405921003	Well #:	UJ-285
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-285
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921003		

I219
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104769**

OIL_GAS:

API #:	0405902860	Well #:	UJ-88B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-88B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902860		

I220
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104435**

OIL_GAS:

API #:	0405902903	Well #:	J-138
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-138
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902903		

Map ID
Direction
Distance

Database EDR ID Number

H221
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101386**

OIL_GAS:

API #:	0405902831	Well #:	J-50B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-50B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902831		

G222
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102852**

OIL_GAS:

API #:	0405903838	Well #:	188
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 188
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903838		

H223
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101470**

OIL_GAS:

API #:	0405902850	Well #:	UJ-76B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-76B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902850		

Map ID
Direction
Distance

Database EDR ID Number

I224
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101111**

OIL_GAS:

API #:	0405921514	Well #:	11
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	Water Source Well	Well Design:	Water Source Well 11
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921514		

I225
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101441**

OIL_GAS:

API #:	0405921115	Well #:	T-32
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-32
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921115		

I226
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101383**

OIL_GAS:

API #:	0405900103	Well #:	J-40D
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-40D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900103		

Map ID
Direction
Distance

Database EDR ID Number

I227
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104743**

OIL_GAS:

API #:	0425903044	Well #:	UJ-258
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-258
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25903044		

H228
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104481**

OIL_GAS:

API #:	0405902832	Well #:	J-51B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-51B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902832		

H229
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104454**

OIL_GAS:

API #:	0405903025	Well #:	J-175
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-175
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903025		

Map ID
Direction
Distance

Database EDR ID Number

I230
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104749**

OIL_GAS:

API #:	0405920785	Well #:	UJ-265
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-265
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920785		

I231
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102537**

OIL_GAS:

API #:	0405907909	Well #:	11A
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 11A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907909		

I232
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104774**

OIL_GAS:

API #:	0405920356	Well #:	WD-11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by California Resources Production Corporation		
Well Design:	WD-11	Operator ID:	C0885
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920356		

Map ID
Direction
Distance

Database EDR ID Number

I233
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104768**

OIL_GAS:

API #:	0405902859	Well #:	UJ-87
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-87
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902859		

I234
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101438**

OIL_GAS:

API #:	0405921132	Well #:	T-21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921132		

H235
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101635**

OIL_GAS:

API #:	0405921758	Well #:	752
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 752
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/27/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921758		

Map ID
Direction
Distance

Database EDR ID Number

I236
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104472**

OIL_GAS:

API #:	0405900101	Well #:	J-35B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-35B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900101		

H237
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104631**

OIL_GAS:

API #:	0405902979	Well #:	S-66A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-66A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902979		

I238
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101294**

OIL_GAS:

API #:	0405921768	Well #:	758
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 758
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/11/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921768		

Map ID
Direction
Distance

Database EDR ID Number

H239
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104385**

OIL_GAS:

API #:	0405902794	Well #:	C-30
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-30
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902794		

H240
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101290**

OIL_GAS:

API #:	0405921761	Well #:	753
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 753
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/27/2014		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921761		

I241
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104569**

OIL_GAS:

API #:	0405902858	Well #:	S-156
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-156
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902858		

Map ID
Direction
Distance

Database EDR ID Number

I242
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101295**

OIL_GAS:

API #:	0405921772	Well #:	759
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 759
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/12/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921772		

H243
West
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103641**

OIL_GAS:

API #:	0405904071	Well #:	38
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 38
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904071		

H244
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104632**

OIL_GAS:

API #:	0405902980	Well #:	S-67B
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-67B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902980		

Map ID
Direction
Distance

Database EDR ID Number

I245
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101296**

OIL_GAS:

API #:	0405921770	Well #:	760
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 760
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	12/13/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921770		

H246
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104531**

OIL_GAS:

API #:	0405903026	Well #:	S-113
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-113
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903026		

I247
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104742**

OIL_GAS:

API #:	0405920731	Well #:	UJ-255
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-255
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920731		

Map ID
Direction
Distance

Database EDR ID Number

I248
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104455**

OIL_GAS:

API #:	0405901920	Well #:	J-190
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-190
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901920		

I249
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104163**

OIL_GAS:

API #:	0405903738	Well #:	72
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 72
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903738		

H250
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104486**

OIL_GAS:

API #:	0405902837	Well #:	J-58
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-58
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902837		

Map ID
Direction
Distance

Database EDR ID Number

H251
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101739**

OIL_GAS:

API #:	0405920920	Well #:	UJ-277
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-277
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920920		

J252
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102519**

OIL_GAS:

API #:	0405903772	Well #:	112-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 112-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903772		

H253
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101360**

OIL_GAS:

API #:	0405902879	Well #:	J-110
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-110
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902879		

Map ID
Direction
Distance

Database EDR ID Number

I254
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104437**

OIL_GAS:

API #:	0405902906	Well #:	J-141
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-141
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902906		

J255
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101615**

OIL_GAS:

API #:	0405921728	Well #:	727
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 727
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	10/26/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921728		

I256
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101387**

OIL_GAS:

API #:	0405902842	Well #:	J-64D
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-64D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902842		

Map ID
Direction
Distance

Database EDR ID Number

I257
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103186**

OIL_GAS:

API #:	0405903874	Well #:	219
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 219
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903874		

H258
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101422**

OIL_GAS:

API #:	0405902981	Well #:	S-68
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-68
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902981		

H259
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104534**

OIL_GAS:

API #:	0405903029	Well #:	S-116A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-116A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903029		

Map ID
Direction
Distance

Database EDR ID Number

I260
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104172**

OIL_GAS:

API #:	0405903740	Well #:	74-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 74-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903740		

I261
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101468**

OIL_GAS:

API #:	0405902843	Well #:	UJ-65B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-65B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902843		

I262
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101216**

OIL_GAS:

API #:	0405921148	Well #:	3T-40
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 3T-40
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921148		

Map ID
Direction
Distance

Database EDR ID Number

I263
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104489**

OIL_GAS:

API #:	0405901001	Well #:	J-63B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-63B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901001		

G264
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104314**

OIL_GAS:

API #:	0405903755	Well #:	94
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 94
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903755		

H265
West
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103627**

OIL_GAS:

API #:	0405904069	Well #:	36
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 36
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904069		

Map ID
Direction
Distance

Database EDR ID Number

H266
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104633**

OIL_GAS:

API #:	0405902982	Well #:	S-69
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-69
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902982		

I267
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101169**

OIL_GAS:

API #:	0405921506	Well #:	2
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921506		

H268
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101356**

OIL_GAS:

API #:	0405902871	Well #:	J-100
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-100
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902871		

Map ID
Direction
Distance

Database EDR ID Number

H269
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101700**

OIL_GAS:

API #:	0405921077	Well #:	J-292
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-292
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921077		

I270
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103204**

OIL_GAS:

API #:	0405904168	Well #:	222
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 222
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904168		

K271
NW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101161**

OIL_GAS:

API #:	0405907910	Well #:	12
Well Type:	Water Disposal	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 12
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907910		

Map ID
Direction
Distance

Database EDR ID Number

G272
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103828**

OIL_GAS:

API #:	0405903715	Well #:	47
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 47
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903715		

I273
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101453**

OIL_GAS:

API #:	0405920688	Well #:	UJ-250A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-250A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920688		

I274
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101174**

OIL_GAS:

API #:	0405921507	Well #:	2-A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 2-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921507		

Map ID
Direction
Distance

Database EDR ID Number

I275
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101436**

OIL_GAS:

API #:	0405902841	Well #:	T-16
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902841		

I276
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104519**

OIL_GAS:

API #:	0405903016	Well #:	S-103
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-103
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903016		

H277
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104438**

OIL_GAS:

API #:	0405902907	Well #:	J-142
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-142
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902907		

Map ID
Direction
Distance

Database EDR ID Number

H278
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101357**

OIL_GAS:

API #:	0405902872	Well #:	J-101A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-101A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902872		

H279
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101461**

OIL_GAS:

API #:	0405920969	Well #:	UJ-279
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-279
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920969		

I280
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101462**

OIL_GAS:

API #:	0405920984	Well #:	UJ-283
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-283
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920984		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

I281
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101388**

OIL_GAS:

API #:	0405900107	Well #:	J-67B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-67B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900107		

G282
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102763**

OIL_GAS:

API #:	0405903815	Well #:	163
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 163
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903815		

I283
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104434**

OIL_GAS:

API #:	0405902801	Well #:	J-12C
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-12C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902801		

Map ID
Direction
Distance

Database EDR ID Number

I284
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101409**

OIL_GAS:

API #:	0405902938	Well #:	S-28A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-28A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/24/2008		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902938		

I285
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103241**

OIL_GAS:

API #:	0405900161	Well #:	233
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 233
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900161		

H286
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104484**

OIL_GAS:

API #:	0405902835	Well #:	J-56B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-56B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902835		

Map ID
Direction
Distance

Database EDR ID Number

H287
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101269**

OIL_GAS:

API #:	0405903128	Well #:	583A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 583A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903128		

I288
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104740**

OIL_GAS:

API #:	0405920696	Well #:	UJ-251A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-251A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920696		

H289
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104485**

OIL_GAS:

API #:	0405902836	Well #:	J-57
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-57
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902836		

Map ID
Direction
Distance

Database EDR ID Number

290
North
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103639**

OIL_GAS:

API #:	0405900157	Well #:	37-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 37-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900157		

H291
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103615**

OIL_GAS:

API #:	0405904068	Well #:	35
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 35
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904068		

I292
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101367**

OIL_GAS:

API #:	0405902944	Well #:	J-173
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-173
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902944		

Map ID
Direction
Distance

Database EDR ID Number

L293
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103268**

OIL_GAS:

API #:	0405920340	Well #:	242
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 242
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920340		

I294
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101362**

OIL_GAS:

API #:	0405902800	Well #:	J-11C
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-11C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902800		

I295
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104515**

OIL_GAS:

API #:	0405903015	Well #:	S-102
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-102
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903015		

Map ID
Direction
Distance

Database EDR ID Number

H296
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104487**

OIL_GAS:

API #:	0405902838	Well #:	J-59B
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-59B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902838		

H297
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101366**

OIL_GAS:

API #:	0405920106	Well #:	J-163
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-163
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920106		

I298
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104766**

OIL_GAS:

API #:	0405902844	Well #:	UJ-66A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-66A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/11/1950		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902844		

Map ID
Direction
Distance

Database EDR ID Number

I299
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104392**

OIL_GAS:

API #:	0405902799	Well #:	CJ-10A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-10A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902799		

I300
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101411**

OIL_GAS:

API #:	0405902943	Well #:	S-34A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-34A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902943		

L301
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103266**

OIL_GAS:

API #:	0405920335	Well #:	241
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 241
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920335		

Map ID
Direction
Distance

Database EDR ID Number

I302
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103216**

OIL_GAS:

API #:	0405904169	Well #:	227
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 227
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904169		

H303
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104383**

OIL_GAS:

API #:	0405902793	Well #:	C-26
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-26
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902793		

H304
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101694**

OIL_GAS:

API #:	0405902900	Well #:	J-135
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-135
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902900		

Map ID
Direction
Distance

Database EDR ID Number

K305
NNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103602**

OIL_GAS:

API #:	0405903704	Well #:	34
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 34
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903704		

I306
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104396**

OIL_GAS:

API #:	0405920187	Well #:	CJ-198
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-198
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920187		

I307
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104493**

OIL_GAS:

API #:	0405902854	Well #:	J-82A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-82A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902854		

Map ID
Direction
Distance

Database EDR ID Number

H308
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103640**

OIL_GAS:

API #:	0405903707	Well #:	38
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 38
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903707		

H309
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103603**

OIL_GAS:

API #:	0405904067	Well #:	34
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 34
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904067		

I310
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104501**

OIL_GAS:

API #:	0405902798	Well #:	J-9A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-9A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902798		

Map ID
Direction
Distance

Database EDR ID Number

I311
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104733**

OIL_GAS:

API #:	0405902940	Well #:	UJ-178
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-178
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902940		

I312
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101405**

OIL_GAS:

API #:	0405902852	Well #:	S-161
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-161
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/06/2018		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902852		

I313
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104737**

OIL_GAS:

API #:	0405920687	Well #:	UJ-188
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-188
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920687		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

K314
NW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104777**

OIL_GAS:

API #:	0405907900	Well #:	WS-5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	WS-5	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907900		

H315
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104482**

OIL_GAS:

API #:	0405902827	Well #:	J-52A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-52A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902827		

I316
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103198**

OIL_GAS:

API #:	0405904055	Well #:	22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 22
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904055		

Map ID
Direction
Distance

Database EDR ID Number

I317
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104458**

OIL_GAS:

API #:	0405902918	Well #:	J-195
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-195
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902918		

I318
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101734**

OIL_GAS:

API #:	0405921183	Well #:	T-42
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-42
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921183		

H319
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104447**

OIL_GAS:

API #:	0405920100	Well #:	J-164
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-164
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920100		

Map ID
Direction
Distance

Database EDR ID Number

I320
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101394**

OIL_GAS:

API #:	0405900109	Well #:	J-80B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-80B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900109		

I321
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104577**

OIL_GAS:

API #:	0405920982	Well #:	S-170
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-170
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920982		

K322
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104663**

OIL_GAS:

API #:	0405902999	Well #:	S-86A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-86A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902999		

Map ID
Direction
Distance

Database EDR ID Number

I323
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104514**

OIL_GAS:

API #:	0405903014	Well #:	S-101B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-101B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903014		

H324
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103112**

OIL_GAS:

API #:	0405904035	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904035		

I325
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101395**

OIL_GAS:

API #:	0405902853	Well #:	J-81A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-81A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902853		

Map ID
Direction
Distance

Database EDR ID Number

K326
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101427**

OIL_GAS:

API #:	0405903000	Well #:	S-87A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-87A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903000		

K327
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104391**

OIL_GAS:

API #:	0405902873	Well #:	CJ-102B
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-102B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902873		

L328
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102817**

OIL_GAS:

API #:	0405900902	Well #:	179
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 179
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900902		

Map ID
Direction
Distance

Database EDR ID Number

K329
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104526**

OIL_GAS:

API #:	0405902923	Well #:	S-11
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-11
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902923		

K330
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104416**

OIL_GAS:

API #:	0405900307	Well #:	J-103A
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-103A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900307		

M331
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103840**

OIL_GAS:

API #:	0405907908	Well #:	4A
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 4A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907908		

Map ID
Direction
Distance

Database EDR ID Number

K332
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104601**

OIL_GAS:

API #:	0405900116	Well #:	S-33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-33
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900116		

M333
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104097**

OIL_GAS:

API #:	0405903734	Well #:	68
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 68
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903734		

I334
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103337**

OIL_GAS:

API #:	0405904060	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 27
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904060		

Map ID
Direction
Distance

Database EDR ID Number

K335
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101358**

OIL_GAS:

API #:	0405902874	Well #:	J-104
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-104
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902874		

K336
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104008**

OIL_GAS:

API #:	0405920979	Well #:	585
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 585
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920979		

K337
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104753**

OIL_GAS:

API #:	0405921049	Well #:	UJ-272
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-272
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921049		

Map ID
Direction
Distance

Database EDR ID Number

338
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102515**

OIL_GAS:

API #:	0405900482	Well #:	111
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 111
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900482		

N339
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103250**

OIL_GAS:

API #:	0405920163	Well #:	238
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 238
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920163		

K340
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101719**

OIL_GAS:

API #:	0405902960	Well #:	S-47A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-47A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902960		

Map ID
Direction
Distance

Database EDR ID Number

K341
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101432**

OIL_GAS:

API #:	0405902875	Well #:	T-11
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-11
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902875		

M342
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104573**

OIL_GAS:

API #:	0405900119	Well #:	S-167
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-167
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900119		

J343
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104291**

OIL_GAS:

API #:	0405903750	Well #:	90
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 90
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903750		

Map ID
Direction
Distance

Database EDR ID Number

N344
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103273**

OIL_GAS:

API #:	0405920458	Well #:	244-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 244-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920458		

M345
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104732**

OIL_GAS:

API #:	0405920114	Well #:	UJ-177
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-177
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920114		

K346
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104612**

OIL_GAS:

API #:	0405902961	Well #:	S-48B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-48B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902961		

Map ID
Direction
Distance

Database EDR ID Number

M347
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104429**

OIL_GAS:

API #:	0405902891	Well #:	J-125
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-125
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902891		

O348
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104420**

OIL_GAS:

API #:	0405902880	Well #:	J-111A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-111A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902880		

K349
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101444**

OIL_GAS:

API #:	0405921157	Well #:	T-47
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-47
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921157		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

J350
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000102616**

OIL_GAS:

API #:	0405903786	Well #:	131
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 131
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903786		

M351
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104466**

OIL_GAS:

API #:	0405921064	Well #:	J-290
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-290
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921064		

M352
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000104439**

OIL_GAS:

API #:	0405900112	Well #:	J-144
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-144
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900112		

Map ID
Direction
Distance

Database EDR ID Number

N353
East
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103275**

OIL_GAS:

API #:	0405920491	Well #:	245
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 245
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920491		

354
West
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101120**

OIL_GAS:

API #:	0405921767	Well #:	728_
Well Type:	Oil & Gas	Well Status:	Canceled
Lease Name:	State Prc 392	Well Design:	State Prc 392 728_
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach Offshore	GIS Source:	Notice of Intent to Drill
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921767		

M355
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000101442**

OIL_GAS:

API #:	0405921150	Well #:	T-41
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-41
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921150		

Map ID
Direction
Distance

Database EDR ID Number

356
NE
1/8 - 1/4 Mile

OIL_GAS **CAOG17000103830**

OIL_GAS:

API #:	0405903716	Well #:	48
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 48
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903716		

O357
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104456**

OIL_GAS:

API #:	0405902962	Well #:	J-193
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-193
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902962		

M358
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104605**

OIL_GAS:

API #:	0405902949	Well #:	S-41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-41
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902949		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

L359
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104334**

OIL_GAS:

API #:	0405903760	Well #:	99
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 99
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903760		

O360
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104418**

OIL_GAS:

API #:	0405902876	Well #:	J-107
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-107
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902876		

N361
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103298**

OIL_GAS:

API #:	0405920905	Well #:	252
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 252
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920905		

Map ID
Direction
Distance

Database EDR ID Number

M362
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103166**

OIL_GAS:

API #:	0405904054	Well #:	21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 21
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904054		

L363
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102887**

OIL_GAS:

API #:	0405903846	Well #:	198
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 198
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903846		

M364
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104427**

OIL_GAS:

API #:	0405900952	Well #:	J-122C
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-122C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900952		

Map ID
Direction
Distance

Database EDR ID Number

M365
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104751**

OIL_GAS:

API #:	0405920793	Well #:	UJ-268
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-268
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920793		

M366
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101414**

OIL_GAS:

API #:	0405900117	Well #:	S-40
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-40
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/02/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900117		

O367
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104381**

OIL_GAS:

API #:	0405902790	Well #:	C-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902790		

Map ID
Direction
Distance

Database EDR ID Number

O368
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104443**

OIL_GAS:

API #:	0405903138	Well #:	J-158A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-158A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903138		

L369
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104248**

OIL_GAS:

API #:	0405904534	Well #:	88
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 88
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904534		

O370
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101455**

OIL_GAS:

API #:	0405920740	Well #:	UJ-257
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 UJ-257
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920740		

Map ID
Direction
Distance

Database EDR ID Number

371
North
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103373**

OIL_GAS:

API #:	0405903699	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 29
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903699		

L372
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103245**

OIL_GAS:

API #:	0405900156	Well #:	235-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 235-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900156		

M373
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101451**

OIL_GAS:

API #:	0405903123	Well #:	UJ-185
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-185
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	04/19/1957		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903123		

Map ID
Direction
Distance

Database EDR ID Number

O374
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101359**

OIL_GAS:

API #:	0405902877	Well #:	J-108
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-108
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902877		

O375
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104494**

OIL_GAS:

API #:	0405902855	Well #:	J-83
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-83
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902855		

M376
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101718**

OIL_GAS:

API #:	0405902948	Well #:	S-39B
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-39B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902948		

Map ID
Direction
Distance

Database EDR ID Number

O377
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101690**

OIL_GAS:

API #:	0405920919	Well #:	CJ-278A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-278A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920919		

M378
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104726**

OIL_GAS:

API #:	0405902888	Well #:	UJ-121A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-121A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902888		

N379
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102849**

OIL_GAS:

API #:	0405900210	Well #:	186
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 186
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900210		

Map ID
Direction
Distance

Database EDR ID Number

O380
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101349**

OIL_GAS:

API #:	0405903139	Well #:	CJ-159
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 CJ-159
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903139		

M381
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104604**

OIL_GAS:

API #:	0405902947	Well #:	S-38A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-38A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902947		

O382
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104378**

OIL_GAS:

API #:	0405902787	Well #:	C-18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902787		

Map ID
Direction
Distance

Database EDR ID Number

M383
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104245**

OIL_GAS:

API #:	0405903748	Well #:	86
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 86
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903748		

M384
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101182**

OIL_GAS:

API #:	0405921518	Well #:	21A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 21A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921518		

M385
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101435**

OIL_GAS:

API #:	0405902885	Well #:	T-15
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-15
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902885		

Map ID
Direction
Distance

Database EDR ID Number

M386
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101178**

OIL_GAS:

API #:	0405921517	Well #:	21
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921517		

O387
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104380**

OIL_GAS:

API #:	0405902789	Well #:	C-20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902789		

P388
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104778**

OIL_GAS:

API #:	0405907901	Well #:	WS-6
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	WS-6	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Huntington Beach
Area Name:	Onshore	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907901		

Map ID
Direction
Distance

Database EDR ID Number

O389
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103934**

OIL_GAS:

API #:	0405903075	Well #:	511
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 511
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903075		

M390
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104394**

OIL_GAS:

API #:	0405900115	Well #:	CJ-192B
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-192B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900115		

M391
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104422**

OIL_GAS:

API #:	0405900209	Well #:	J-114A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-114A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900209		

Map ID
Direction
Distance

Database EDR ID Number

O392
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104448**

OIL_GAS:

API #:	0405902856	Well #:	J-165
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-165
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902856		

O393
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103935**

OIL_GAS:

API #:	0405903076	Well #:	512
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 512
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903076		

M394
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103561**

OIL_GAS:

API #:	0405904065	Well #:	32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 32
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904065		

Map ID
Direction
Distance

Database EDR ID Number

M395
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101369**

OIL_GAS:

API #:	0405903028	Well #:	J-182
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-182
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903028		

M396
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104566**

OIL_GAS:

API #:	0405903061	Well #:	S-151
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-151
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903061		

L397
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104181**

OIL_GAS:

API #:	0405903743	Well #:	77-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 77-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903743		

Map ID
Direction
Distance

Database EDR ID Number

M398
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101434**

OIL_GAS:

API #:	0405920651	Well #:	T-13
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-13
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920651		

O399
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103936**

OIL_GAS:

API #:	0405903077	Well #:	513 A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 513 A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903077		

Q400
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103234**

OIL_GAS:

API #:	0405903877	Well #:	230
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 230
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903877		

Map ID
Direction
Distance

Database EDR ID Number

O401
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104511**

OIL_GAS:

API #:	0405903013	Well #:	S-100
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-100
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903013		

M402
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104739**

OIL_GAS:

API #:	0405920297	Well #:	UJ-199
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-199
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920297		

M403
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101735**

OIL_GAS:

API #:	0405902901	Well #:	UJ-136A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-136A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902901		

Map ID
Direction
Distance

Database EDR ID Number

O404
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104535**

OIL_GAS:

API #:	0405903030	Well #:	S-117
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-117
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903030		

O405
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101572**

OIL_GAS:

API #:	0405903087	Well #:	523
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 523
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903087		

M406
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103238**

OIL_GAS:

API #:	0405904170	Well #:	232
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 232
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904170		

Map ID
Direction
Distance

Database EDR ID Number

O407
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101691**

OIL_GAS:

API #:	0405920983	Well #:	CJ-287
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 CJ-287
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920983		

O408
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102572**

OIL_GAS:

API #:	0405903780	Well #:	121
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 121
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903780		

M409
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104734**

OIL_GAS:

API #:	0405920145	Well #:	UJ-183
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-183
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920145		

Map ID
Direction
Distance

Database EDR ID Number

N410
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102636**

OIL_GAS:

API #:	0405903794	Well #:	139
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 139
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903794		

O411
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104536**

OIL_GAS:

API #:	0405903031	Well #:	S-118
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-118
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903031		

O412
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103999**

OIL_GAS:

API #:	0405903119	Well #:	572
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 572
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903119		

Map ID
Direction
Distance

Database EDR ID Number

M413
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104088**

OIL_GAS:

API #:	0405903731	Well #:	65
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 65
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903731		

414
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103315**

OIL_GAS:

API #:	0405903697	Well #:	26
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 26
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903697		

M415
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101736**

OIL_GAS:

API #:	0405920248	Well #:	UJ-189
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-189
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920248		

Map ID
Direction
Distance

Database EDR ID Number

M416
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104442**

OIL_GAS:

API #:	0405902995	Well #:	J-157
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-157
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902995		

O417
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101400**

OIL_GAS:

API #:	0405903032	Well #:	S-119A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-119A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903032		

O418
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104002**

OIL_GAS:

API #:	0405903122	Well #:	575
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 575
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903122		

Map ID
Direction
Distance

Database EDR ID Number

N419
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103253**

OIL_GAS:

API #:	0405920244	Well #:	239
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 239
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920244		

M420
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101471**

OIL_GAS:

API #:	0405902868	Well #:	UJ-98C
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-98C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902868		

P421
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103738**

OIL_GAS:

API #:	0405903708	Well #:	40
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 40
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903708		

Map ID
Direction
Distance

Database EDR ID Number

M422
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101426**

OIL_GAS:

API #:	0405902994	Well #:	S-81C
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-81C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902994		

O423
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104001**

OIL_GAS:

API #:	0405903121	Well #:	574
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 574
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903121		

O424
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101706**

OIL_GAS:

API #:	0405903033	Well #:	S-120
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-120
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903033		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

M425
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103129**

OIL_GAS:

API #:	0405904053	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 20
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904053		

O426
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104719**

OIL_GAS:

API #:	0405921168	Well #:	T-39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-39
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921168		

M427
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104551**

OIL_GAS:

API #:	0405903043	Well #:	S-130B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-130B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903043		

Map ID
Direction
Distance

Database EDR ID Number

O428
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104000**

OIL_GAS:

API #:	0405903120	Well #:	573
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 573
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903120		

R429
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103179**

OIL_GAS:

API #:	0405903864	Well #:	216
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 216
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903864		

M430
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104651**

OIL_GAS:

API #:	0405902993	Well #:	S-80
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-80
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902993		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

N431
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104231**

OIL_GAS:

API #:	0405903745	Well #:	81
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 81
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903745		

O432
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101343**

OIL_GAS:

API #:	0405902792	Well #:	C-23
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-23
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902792		

M433
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104754**

OIL_GAS:

API #:	0405921001	Well #:	UJ-282
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-282
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921001		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

R434
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103296**

OIL_GAS:

API #:	0405920904	Well #:	251
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 251
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920904		

M435
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101391**

OIL_GAS:

API #:	0405900108	Well #:	J-72A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-72A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900108		

S436
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102755**

OIL_GAS:

API #:	0405903812	Well #:	160
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 160
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903812		

Map ID
Direction
Distance

Database EDR ID Number

O437
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104382**

OIL_GAS:

API #:	0405902791	Well #:	C-22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-22
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902791		

R438
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104453**

OIL_GAS:

API #:	0405900014	Well #:	J-170B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-170B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900014		

O439
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104537**

OIL_GAS:

API #:	0405903034	Well #:	S-121
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-121
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903034		

Map ID
Direction
Distance

Database EDR ID Number

R440
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104650**

OIL_GAS:

API #:	0405902992	Well #:	S-79A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-79A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902992		

Q441
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102845**

OIL_GAS:

API #:	0405903835	Well #:	184
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 184
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903835		

R442
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104596**

OIL_GAS:

API #:	0405902937	Well #:	S-26B
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-26B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902937		

Map ID
Direction
Distance

Database EDR ID Number

O443
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104446**

OIL_GAS:

API #:	0405903141	Well #:	J-162
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 J-162
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903141		

O444
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104533**

OIL_GAS:

API #:	0405903027	Well #:	S-114
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-114
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903027		

S445
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102534**

OIL_GAS:

API #:	0405903777	Well #:	118-A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 118-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903777		

Map ID
Direction
Distance

Database EDR ID Number

O446
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104752**

OIL_GAS:

API #:	0405920923	Well #:	UJ-270
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-270
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920923		

R447
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101390**

OIL_GAS:

API #:	0405900208	Well #:	J-71C
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-71C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900208		

R448
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103282**

OIL_GAS:

API #:	0405920635	Well #:	249
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 249
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920635		

Map ID
Direction
Distance

Database EDR ID Number

Q449
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102474**

OIL_GAS:

API #:	0405903767	Well #:	106
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 106
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903767		

R450
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104593**

OIL_GAS:

API #:	0405902936	Well #:	S-25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-25
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902936		

O451
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104706**

OIL_GAS:

API #:	0405903136	Well #:	T-10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-10
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903136		

Map ID
Direction
Distance

Database EDR ID Number

T452
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104540**

OIL_GAS:

API #:	0405903035	Well #:	S-122B
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-122B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903035		

Q453
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102816**

OIL_GAS:

API #:	0405903830	Well #:	178
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 178
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903830		

R454
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104767**

OIL_GAS:

API #:	0405902847	Well #:	UJ-70B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-70B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902847		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Q455
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104243**

OIL_GAS:

API #:	0405903747	Well #:	85
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 85
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903747		

T456
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104417**

OIL_GAS:

API #:	0405900425	Well #:	J-106
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-106
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900425		

R457
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101413**

OIL_GAS:

API #:	0405902917	Well #:	S-3B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-3B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902917		

Map ID
Direction
Distance

Database EDR ID Number

T458
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103941**

OIL_GAS:

API #:	0405903081	Well #:	517
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 517
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903081		

R459
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104401**

OIL_GAS:

API #:	0405902846	Well #:	CJ-69B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-69B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902846		

R460
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101188**

OIL_GAS:

API #:	0405921520	Well #:	26
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 26
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921520		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Q461
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102886**

OIL_GAS:

API #:	0405903845	Well #:	197
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 197
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903845		

R462
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101389**

OIL_GAS:

API #:	0405902845	Well #:	J-68B
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-68B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902845		

T463
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101728**

OIL_GAS:

API #:	0405903008	Well #:	S-95A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-95A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903008		

Map ID
Direction
Distance

Database EDR ID Number

T464
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103953**

OIL_GAS:

API #:	0405903090	Well #:	527
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 527
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903090		

R465
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103524**

OIL_GAS:

API #:	0405904063	Well #:	30
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 30
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904063		

R466
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104638**

OIL_GAS:

API #:	0405902984	Well #:	S-71B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-71B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902984		

Map ID
Direction
Distance

Database EDR ID Number

R467
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101189**

OIL_GAS:

API #:	0405921521	Well #:	26A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 26A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921521		

R468
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104709**

OIL_GAS:

API #:	0405920699	Well #:	T-19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-19
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920699		

Q469
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102766**

OIL_GAS:

API #:	0405903817	Well #:	165
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 165
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903817		

Map ID
Direction
Distance

Database EDR ID Number

T470
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104521**

OIL_GAS:

API #:	0405903017	Well #:	S-104
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-104
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903017		

471
North
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102869**

OIL_GAS:

API #:	0405903690	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 19
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903690		

T472
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104718**

OIL_GAS:

API #:	0405921172	Well #:	T-37
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-37
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921172		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

T473
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103965**

OIL_GAS:

API #:	0405903095	Well #:	537A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 537A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903095		

R474
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101708**

OIL_GAS:

API #:	0405903042	Well #:	S-129A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-129A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903042		

R475
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104185**

OIL_GAS:

API #:	0405900947	Well #:	79-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 79-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900947		

Map ID
Direction
Distance

Database EDR ID Number

T476
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101567**

OIL_GAS:

API #:	0405903073	Well #:	509A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 509A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903073		

477
NNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103800**

OIL_GAS:

API #:	0405903711	Well #:	43
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 43
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903711		

T478
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101418**

OIL_GAS:

API #:	0405902969	Well #:	S-56A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-56A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902969		

Map ID
Direction
Distance

Database EDR ID Number

T479
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101733**

OIL_GAS:

API #:	0405921158	Well #:	T-38
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-38
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921158		

R480
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101363**

OIL_GAS:

API #:	0405902902	Well #:	J-137
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-137
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902902		

T481
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104403**

OIL_GAS:

API #:	0405907903	Well #:	E
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well E
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907903		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

T482
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104102**

OIL_GAS:

API #:	0405903088	Well #:	7
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903088		

T483
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103951**

OIL_GAS:

API #:	0425903088	Well #:	525A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 525A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25903088		

R484
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104096**

OIL_GAS:

API #:	0405903733	Well #:	67
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 67
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903733		

Map ID
Direction
Distance

Database EDR ID Number

T485
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104620**

OIL_GAS:

API #:	0405902968	Well #:	S-55A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-55A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902968		

Q486
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102588**

OIL_GAS:

API #:	0405900152	Well #:	127-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 127-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900152		

R487
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104421**

OIL_GAS:

API #:	0405902881	Well #:	J-112A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-112A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902881		

Map ID
Direction
Distance

Database EDR ID Number

R488
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104176**

OIL_GAS:

API #:	0405903741	Well #:	75
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 75
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903741		

T489
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104444**

OIL_GAS:

API #:	0405901862	Well #:	J-160B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-160B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901862		

T490
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104550**

OIL_GAS:

API #:	0405902924	Well #:	S-12A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-12A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902924		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

R491
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102864**

OIL_GAS:

API #:	0405904052	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 19
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904052		

R492
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101346**

OIL_GAS:

API #:	0405902882	Well #:	CJ-113
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-113
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902882		

U493
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103362**

OIL_GAS:

API #:	0405900151	Well #:	28
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 28
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900151		

Map ID
Direction
Distance

Database EDR ID Number

R494
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101466**

OIL_GAS:

API #:	0405902820	Well #:	UJ-34C
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-34C
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902820		

T495
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101342**

OIL_GAS:

API #:	0405902788	Well #:	C-19
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-19
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902788		

T496
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104613**

OIL_GAS:

API #:	0405902964	Well #:	S-50A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-50A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902964		

Map ID
Direction
Distance

Database EDR ID Number

R497
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101707**

OIL_GAS:

API #:	0405903037	Well #:	S-124A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-124A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903037		

T498
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102569**

OIL_GAS:

API #:	0405903779	Well #:	120
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 120
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903779		

R499
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104722**

OIL_GAS:

API #:	0405921167	Well #:	T-52
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-52
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921167		

Map ID
Direction
Distance

Database EDR ID Number

R500
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104400**

OIL_GAS:

API #:	0405902816	Well #:	CJ-30A
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-30A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902816		

T501
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104445**

OIL_GAS:

API #:	0405903140	Well #:	J-161
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 J-161
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903140		

T502
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104619**

OIL_GAS:

API #:	0405902967	Well #:	S-54
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-54
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902967		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

S503
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102592**

OIL_GAS:

API #:	0405900153	Well #:	129-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 129-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900153		

R504
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104542**

OIL_GAS:

API #:	0405903036	Well #:	S-123
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-123
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903036		

T505
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102478**

OIL_GAS:

API #:	0405903769	Well #:	108
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 108
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903769		

Map ID
Direction
Distance

Database EDR ID Number

R506
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104591**

OIL_GAS:

API #:	0405902935	Well #:	S-24
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-24
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902935		

T507
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104779**

OIL_GAS:

API #:	0405907902	Well #:	WS-9
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Lease by Chevron U.S.A. Inc.		
Well Design:	WS-9	Operator ID:	C5640
Operator Name:	Chevron U.S.A. Inc.	Field Name:	Huntington Beach
Area Name:	Onshore	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907902		

R508
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104402**

OIL_GAS:

API #:	0405902797	Well #:	CJ-8A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-8A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902797		

Map ID
Direction
Distance

Database EDR ID Number

V509
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103138**

OIL_GAS:

API #:	0405903848	Well #:	200
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 200
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903848		

W510
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101206**

OIL_GAS:

API #:	0405921515	Well #:	32
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 32
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921515		

V511
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102621**

OIL_GAS:

API #:	0405903787	Well #:	132
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 132
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903787		

Map ID
Direction
Distance

Database EDR ID Number

R512
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104564**

OIL_GAS:

API #:	0405903060	Well #:	S-148
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-148
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903060		

R513
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101625**

OIL_GAS:

API #:	0405921711	Well #:	740
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 740
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/17/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921711		

R514
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101626**

OIL_GAS:

API #:	0405921712	Well #:	741
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 741
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/06/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921712		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

V515
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103248**

OIL_GAS:

API #:	0405920152	Well #:	237
Well Type:	Steamflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 237
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920152		

R516
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101408**

OIL_GAS:

API #:	0405902916	Well #:	S-2
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902916		

T517
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103952**

OIL_GAS:

API #:	0405903089	Well #:	526
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 526
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903089		

Map ID
Direction
Distance

Database EDR ID Number

T518
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104662**

OIL_GAS:

API #:	0405902998	Well #:	S-85
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-85
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902998		

R519
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101627**

OIL_GAS:

API #:	0405921713	Well #:	742
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 742
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/14/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921713		

R520
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104492**

OIL_GAS:

API #:	0405902796	Well #:	J-7A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-7A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902796		

Map ID
Direction
Distance

Database EDR ID Number

R521
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101628**

OIL_GAS:

API #:	0405921714	Well #:	743
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 743
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/01/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921714		

R522
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101437**

OIL_GAS:

API #:	0405902890	Well #:	T-17
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-17
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902890		

R523
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101629**

OIL_GAS:

API #:	0405921715	Well #:	744
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 744
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/01/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921715		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

W524
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103182**

OIL_GAS:

API #:	0405903865	Well #:	217
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 217
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903865		

R525
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104590**

OIL_GAS:

API #:	0405902934	Well #:	S-23B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-23B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902934		

T526
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104426**

OIL_GAS:

API #:	0405902887	Well #:	J-120
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-120
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902887		

Map ID
Direction
Distance

Database EDR ID Number

R527
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104490**

OIL_GAS:

API #:	0405902795	Well #:	J-6D
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-6D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902795		

T528
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104661**

OIL_GAS:

API #:	0405902997	Well #:	S-84
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-84
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902997		

X529
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103280**

OIL_GAS:

API #:	0405920569	Well #:	248
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 248
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920569		

Map ID
Direction
Distance

Database EDR ID Number

R530
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101630**

OIL_GAS:

API #:	0405921716	Well #:	745
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 745
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	05/01/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921716		

V531
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102710**

OIL_GAS:

API #:	0405900158	Well #:	150
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 150
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900158		

R532
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103921**

OIL_GAS:

API #:	0405904151	Well #:	50
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 50
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904151		

Map ID
Direction
Distance

Database EDR ID Number

R533
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101631**

OIL_GAS:

API #:	0405921717	Well #:	746
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 746
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	02/26/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921717		

R534
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104563**

OIL_GAS:

API #:	0405903059	Well #:	S-147
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-147
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903059		

Y535
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102403**

OIL_GAS:

API #:	0405903681	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 10
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903681		

Map ID
Direction
Distance

Database EDR ID Number

V536
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104310**

OIL_GAS:

API #:	0405903754	Well #:	93
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 93
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903754		

V537
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102468**

OIL_GAS:

API #:	0405903764	Well #:	103-A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 103-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903764		

R538
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101632**

OIL_GAS:

API #:	0405921718	Well #:	747
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 747
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	06/24/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921718		

Map ID
Direction
Distance

Database EDR ID Number

Z539
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103584**

OIL_GAS:

API #:	0405904066	Well #:	33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 33
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904066		

R540
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101705**

OIL_GAS:

API #:	0405901925	Well #:	J-5 B
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-5 B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901925		

R541
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101288**

OIL_GAS:

API #:	0405921719	Well #:	748
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 748
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	09/16/2019		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921719		

Map ID
Direction
Distance

Database EDR ID Number

T542
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103992**

OIL_GAS:

API #:	0405903114	Well #:	567
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 567
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903114		

R543
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104597**

OIL_GAS:

API #:	0405902939	Well #:	S-29
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-29
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902939		

V544
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102814**

OIL_GAS:

API #:	0405903829	Well #:	177
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 177
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903829		

Map ID
Direction
Distance

Database EDR ID Number

T545
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104665**

OIL_GAS:

API #:	0405903002	Well #:	S-89
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-89
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903002		

R546
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101633**

OIL_GAS:

API #:	0405921720	Well #:	749
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 749
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	03/08/2013		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921720		

R547
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104428**

OIL_GAS:

API #:	0405902889	Well #:	J-123
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-123
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902889		

Map ID
Direction
Distance

Database EDR ID Number

W548
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104415**

OIL_GAS:

API #:	0405902815	Well #:	J 29D
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J 29D
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902815		

T549
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104450**

OIL_GAS:

API #:	0405903115	Well #:	J-168
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-168
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903115		

T550
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104664**

OIL_GAS:

API #:	0405903001	Well #:	S-88
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-88
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903001		

Map ID
Direction
Distance

Database EDR ID Number

W551
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104546**

OIL_GAS:

API #:	0405903038	Well #:	S-125A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-125A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903038		

V552
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102769**

OIL_GAS:

API #:	0405903818	Well #:	166
Well Type:	Steamflood	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 166
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903818		

T553
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103998**

OIL_GAS:

API #:	0405903117	Well #:	570A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 570A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903117		

Map ID
Direction
Distance

Database EDR ID Number

W554
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101361**

OIL_GAS:

API #:	0405902883	Well #:	J-115
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-115
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902883		

T555
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104375**

OIL_GAS:

API #:	0405902784	Well #:	C-11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-11
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902784		

X556
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103145**

OIL_GAS:

API #:	0405903852	Well #:	204
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 204
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903852		

Map ID
Direction
Distance

Database EDR ID Number

Y557
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102717**

OIL_GAS:

API #:	0405903806	Well #:	152
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 152
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903806		

AA558
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104325**

OIL_GAS:

API #:	0405903759	Well #:	98
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 98
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903759		

W559
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104423**

OIL_GAS:

API #:	0405900948	Well #:	J-116
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-116
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900948		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB560
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102772**

OIL_GAS:

API #:	0405903820	Well #:	168
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 168
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903820		

T561
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104666**

OIL_GAS:

API #:	0405903003	Well #:	S-90
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-90
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903003		

T562
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104720**

OIL_GAS:

API #:	0405921166	Well #:	T-48
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-48
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921166		

Map ID
Direction
Distance

Database EDR ID Number

T563
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101582**

OIL_GAS:

API #:	0405903118	Well #:	571
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 571
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903118		

W564
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101184**

OIL_GAS:

API #:	0405921519	Well #:	23
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 23
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921519		

W565
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102884**

OIL_GAS:

API #:	0405903844	Well #:	196-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 196-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903844		

Map ID
Direction
Distance

Database EDR ID Number

W566
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101695**

OIL_GAS:

API #:	0405900111	Well #:	J-143
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-143
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900111		

W567
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104294**

OIL_GAS:

API #:	0405903752	Well #:	91-A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 91-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903752		

AC568
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101261**

OIL_GAS:

API #:	0405903079	Well #:	515A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 515A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903079		

Map ID
Direction
Distance

Database EDR ID Number

AC569
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104376**

OIL_GAS:

API #:	0405902785	Well #:	C-14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-14
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902785		

W570
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104092**

OIL_GAS:

API #:	0405903732	Well #:	66
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 66
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903732		

AC571
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101711**

OIL_GAS:

API #:	0405921096	Well #:	S-173
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-173
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921096		

Map ID
Direction
Distance

Database EDR ID Number

AD572
North
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103586**

OIL_GAS:

API #:	0405903703	Well #:	33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 33
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903703		

AE573
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102662**

OIL_GAS:

API #:	0405903796	Well #:	141
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 141
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903796		

W574
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102771**

OIL_GAS:

API #:	0405903819	Well #:	167
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 167
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903819		

W575
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103219**

OIL_GAS:

API #:	0405900159	Well #:	228
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 228
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900159		

W576
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101365**

OIL_GAS:

API #:	0405900113	Well #:	J-146
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-146
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900113		

AA577
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102873**

OIL_GAS:

API #:	0405903840	Well #:	190
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 190
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903840		

AC578
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104670**

OIL_GAS:

API #:	0405903004	Well #:	S-91A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-91A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903004		

AC579
NW **OIL_GAS** **CAOG17000102593**
1/4 - 1/2 Mile

OIL_GAS:

API #:	0405907904	Well #:	13
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 13
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907904		

W580
SE **OIL_GAS** **CAOG17000104635**
1/4 - 1/2 Mile

OIL_GAS:

API #:	0405902983	Well #:	S-70
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-70
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902983		

AC581
NW **OIL_GAS** **CAOG17000101299**
1/4 - 1/2 Mile

OIL_GAS:

API #:	0405921512	Well #:	9
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921512		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AC582
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103926**

OIL_GAS:

API #:	0405903071	Well #:	507
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 507
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903071		

AC583
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104559**

OIL_GAS:

API #:	0405903054	Well #:	S-142
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-142
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903054		

Z584
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104629**

OIL_GAS:

API #:	0405902977	Well #:	S-64A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-64A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902977		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

X585
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102613**

OIL_GAS:

API #:	0405903785	Well #:	130
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 130
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903785		

AC586
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103924**

OIL_GAS:

API #:	0405903065	Well #:	501
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 501
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903065		

AC587
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104560**

OIL_GAS:

API #:	0405903055	Well #:	S-143
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-143
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903055		

Map ID
Direction
Distance

Database EDR ID Number

W588
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104178**

OIL_GAS:

API #:	0405903742	Well #:	76
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 76
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903742		

W589
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102760**

OIL_GAS:

API #:	0405903814	Well #:	162
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 162
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903814		

W590
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101688**

OIL_GAS:

API #:	0405902932	Well #:	CJ-155
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-155
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902932		

Map ID
Direction
Distance

Database EDR ID Number

Z591
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104568**

OIL_GAS:

API #:	0405902840	Well #:	S-154A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-154A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902840		

AC592
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101566**

OIL_GAS:

API #:	0405903066	Well #:	502A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 502A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903066		

AC593
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104561**

OIL_GAS:

API #:	0405903056	Well #:	S-144
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-144
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903056		

Map ID
Direction
Distance

Database EDR ID Number

Z594
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104582**

OIL_GAS:

API #:	0405902931	Well #:	S-20A
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-20A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902931		

U595
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103323**

OIL_GAS:

API #:	0405921198	Well #:	262
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 262
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921198		

AB596
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103221**

OIL_GAS:

API #:	0405903872	Well #:	229-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 229-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903872		

Map ID
Direction
Distance

Database EDR ID Number

Z597
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102738**

OIL_GAS:

API #:	0405904049	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 16
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904049		

Z598
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104488**

OIL_GAS:

API #:	0405902839	Well #:	J-60B
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-60B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902839		

X599
NNW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102622**

OIL_GAS:

API #:	0405903788	Well #:	133
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 133
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903788		

Map ID
Direction
Distance

Database EDR ID Number

AC600
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103954**

OIL_GAS:

API #:	0405903091	Well #:	528
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 528
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903091		

601
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102912**

OIL_GAS:

API #:	0405903672	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903672		

AC602
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104377**

OIL_GAS:

API #:	0405902786	Well #:	C-16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902786		

Map ID
Direction
Distance

Database EDR ID Number

Z603
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104474**

OIL_GAS:

API #:	0405902823	Well #:	J-39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-39
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902823		

Z604
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104581**

OIL_GAS:

API #:	0405902930	Well #:	S-19
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-19
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902930		

Z606
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103836**

OIL_GAS:

API #:	0405900186	Well #:	49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 49
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900186		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Z605
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103835**

OIL_GAS:

API #:	0405904163	Well #:	49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 49
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904163		

Z607
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104712**

OIL_GAS:

API #:	0405920700	Well #:	T-20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920700		

AB608
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102725**

OIL_GAS:

API #:	0405903810	Well #:	156
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 156
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903810		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF609
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103236**

OIL_GAS:

API #:	0405900160	Well #:	231
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 231
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900160		

AC610
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101710**

OIL_GAS:

API #:	0405903100	Well #:	S-163
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-163
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903100		

U611
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103573**

OIL_GAS:

API #:	0405921217	Well #:	321
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 321
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921217		

Map ID
Direction
Distance

Database EDR ID Number

AC612
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104675**

OIL_GAS:

API #:	0405903009	Well #:	S-96
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-96
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903009		

Z613
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104580**

OIL_GAS:

API #:	0405902929	Well #:	S-18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902929		

W614
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103354**

OIL_GAS:

API #:	0405921523	Well #:	27A
Well Type:	Water Source	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 27A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921523		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

W615
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101191**

OIL_GAS:

API #:	0405921522	Well #:	27
Well Type:	Water Source	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 27
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921522		

Z616
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101348**

OIL_GAS:

API #:	0405902976	Well #:	CJ-154
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-154
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902976		

AG617
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102516**

OIL_GAS:

API #:	0405903500	Well #:	111-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 111-B
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903500		

Map ID
Direction
Distance

Database EDR ID Number

AF618
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104240**

OIL_GAS:

API #:	0405903746	Well #:	84
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 84
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903746		

619
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103267**

OIL_GAS:

API #:	0405903620	Well #:	241
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 241
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903620		

AC620
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102688**

OIL_GAS:

API #:	0405907905	Well #:	15
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 15
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907905		

Map ID
Direction
Distance

Database EDR ID Number

AC621
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103980**

OIL_GAS:

API #:	0405903101	Well #:	553
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 553
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903101		

AC622
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104676**

OIL_GAS:

API #:	0405903010	Well #:	S-97A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-97A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903010		

AC623
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101712**

OIL_GAS:

API #:	0405921102	Well #:	S-175
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-175
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921102		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF624
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101713**

OIL_GAS:

API #:	0405902915	Well #:	S-1B
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-1B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902915		

AG625
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103572**

OIL_GAS:

API #:	0405921216	Well #:	320
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 320
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921216		

AB626
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102472**

OIL_GAS:

API #:	0405903494	Well #:	105
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 105
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903494		

Map ID
Direction
Distance

Database EDR ID Number

Z627
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104758**

OIL_GAS:

API #:	0405902822	Well #:	UJ-38A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-38A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902822		

AB628
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102677**

OIL_GAS:

API #:	0405903800	Well #:	145
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 145
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903800		

V629
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102878**

OIL_GAS:

API #:	0405900083	Well #:	192-A
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 192-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900083		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AC630
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103983**

OIL_GAS:

API #:	0405903105	Well #:	557
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 557
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903105		

AF631
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104071**

OIL_GAS:

API #:	0405904160	Well #:	61
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 61
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904160		

AC632
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101729**

OIL_GAS:

API #:	0405903011	Well #:	S-98
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-98
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903011		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AD633
North
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102729**

OIL_GAS:

API #:	0405903873	Well #:	158
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 158
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903873		

AF634
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104399**

OIL_GAS:

API #:	0405902814	Well #:	CJ-28A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-28A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902814		

AA635
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104230**

OIL_GAS:

API #:	0405903744	Well #:	80
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 80
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903744		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF636
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101380**

OIL_GAS:

API #:	0405902819	Well #:	J-33A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-33A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902819		

AA637
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103175**

OIL_GAS:

API #:	0405903862	Well #:	214
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 214
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903862		

AH638
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102589**

OIL_GAS:

API #:	0405903784	Well #:	128
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 128
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903784		

Map ID
Direction
Distance

Database EDR ID Number

AG639
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103308**

OIL_GAS:

API #:	0405921195	Well #:	258
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 258
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921195		

AC640
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103993**

OIL_GAS:

API #:	0405903116	Well #:	569B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 569B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903116		

AC641
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104677**

OIL_GAS:

API #:	0405903012	Well #:	S-99
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-99
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903012		

Map ID
Direction
Distance

Database EDR ID Number

Y642
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102726**

OIL_GAS:

API #:	0405903541	Well #:	156
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 156
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903541		

AE643
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103140**

OIL_GAS:

API #:	0405903850	Well #:	202
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 202
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903850		

AC644
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104578**

OIL_GAS:

API #:	0405920985	Well #:	S-171
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-171
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920985		

Map ID
Direction
Distance

Database EDR ID Number

AF645
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101373**

OIL_GAS:

API #:	0405902813	Well #:	J-27A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-27A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902813		

AF646
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104431**

OIL_GAS:

API #:	0405902893	Well #:	J-127
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-127
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902893		

AG647
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103538**

OIL_GAS:

API #:	0405921097	Well #:	309-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 309-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921097		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AC648
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104449**

OIL_GAS:

API #:	0405902910	Well #:	J-166
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-166
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902910		

AC649
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103942**

OIL_GAS:

API #:	0405903082	Well #:	518
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 518
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903082		

AA650
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102584**

OIL_GAS:

API #:	0405903782	Well #:	125
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 125
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903782		

Map ID
Direction
Distance

Database EDR ID Number

AG651
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103550**

OIL_GAS:

API #:	0405921098	Well #:	310
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 310
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921098		

AH652
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102659**

OIL_GAS:

API #:	0405903795	Well #:	140
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 140
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903795		

AE653
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103365**

OIL_GAS:

API #:	0405903652	Well #:	281
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 281
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903652		

AI654
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104003**

OIL_GAS:

API #:	0405903724	Well #:	58
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 58
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903724		

AE655
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103174**

OIL_GAS:

API #:	0405903861	Well #:	213
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 213
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903861		

AF656
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104009**

OIL_GAS:

API #:	0405903725	Well #:	59
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 59
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903725		

AC657
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103943**

OIL_GAS:

API #:	0405903083	Well #:	519
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 519
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903083

AC658
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101258**

OIL_GAS:

API #:	0405903072	Well #:	508
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 508
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903072		

AA659
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102811**

OIL_GAS:

API #:	0405903828	Well #:	176
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 176
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903828		

AG660
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103529**

OIL_GAS:

API #:	0405903229	Well #:	300-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 300-B
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903229		

Map ID
Direction
Distance

Database EDR ID Number

AF661
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101194**

OIL_GAS:

API #:	0405921524	Well #:	29
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 29
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921524		

AJ662
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103317**

OIL_GAS:

API #:	0405903426	Well #:	26
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 26
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903426		

AF663
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102787**

OIL_GAS:

API #:	0405904050	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 17
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904050		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AA664
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103994**

OIL_GAS:

API #:	0405903723	Well #:	57
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 57
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903723		

AC665
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103955**

OIL_GAS:

API #:	0405903092	Well #:	529
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 529
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903092		

AC666
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103984**

OIL_GAS:

API #:	0405903106	Well #:	558A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 558A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903106		

Map ID
Direction
Distance

Database EDR ID Number

AF667
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101692**

OIL_GAS:

API #:	0405921061	Well #:	CJ-288
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-288
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921061		

AC668
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102740**

OIL_GAS:

API #:	0405907906	Well #:	16
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907906		

AF669
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104430**

OIL_GAS:

API #:	0405902892	Well #:	J-126
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-126
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902892		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AH670
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102473**

OIL_GAS:

API #:	0405903766	Well #:	105
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 105
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903766		

AF671
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104397**

OIL_GAS:

API #:	0405902812	Well #:	CJ-26A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-26A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902812		

AI672
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103143**

OIL_GAS:

API #:	0405903851	Well #:	203
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 203
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903851		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AJ673
NNE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103320**

OIL_GAS:

API #:	0405903427	Well #:	26-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 26-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903427		

AC674
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101574**

OIL_GAS:

API #:	0405903096	Well #:	539
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 539
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903096		

AC675
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101577**

OIL_GAS:

API #:	0405903107	Well #:	559A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 559A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903107		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF676
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101465**

OIL_GAS:

API #:	0405902818	Well #:	UJ-32A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-32A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902818		

AK677
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101354**

OIL_GAS:

API #:	0405921558	Well #:	D-A
Well Type:	Water Source	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well D-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921558		

AF678
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104464**

OIL_GAS:

API #:	0405902811	Well #:	J-25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-25
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902811		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF679
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101353**

OIL_GAS:

API #:	0405902975	Well #:	CJ-289
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-289
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902975		

AC680
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103972**

OIL_GAS:

API #:	0405903098	Well #:	549A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 549A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903098		

AC681
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101579**

OIL_GAS:

API #:	0405903108	Well #:	560 A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 560 A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903108		

Map ID
Direction
Distance

Database EDR ID Number

682
North
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103287**

OIL_GAS:

API #:	0405903696	Well #:	25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 25
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903696		

AF683
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103363**

OIL_GAS:

API #:	0405904061	Well #:	28
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 28
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904061		

AF684
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104576**

OIL_GAS:

API #:	0405902928	Well #:	S-17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-17
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902928		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF685
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104763**

OIL_GAS:

API #:	0405901924	Well #:	UJ-4A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-4A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901924		

AC686
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104007**

OIL_GAS:

API #:	0405903069	Well #:	584
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 584
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903069		

AC687
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104547**

OIL_GAS:

API #:	0405903039	Well #:	S-126
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-126
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903039		

Map ID
Direction
Distance

Database EDR ID Number

AF688
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101709**

OIL_GAS:

API #:	0405902817	Well #:	S-152
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-152
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902817		

AF689
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104572**

OIL_GAS:

API #:	0405902927	Well #:	S-16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902927		

AF690
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101742**

OIL_GAS:

API #:	0405901923	Well #:	UJ-3A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-3A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901923		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AL691
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103207**

OIL_GAS:

API #:	0405903870	Well #:	223
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 223
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903870		

AF692
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101699**

OIL_GAS:

API #:	0405920719	Well #:	J-252
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-252
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920719		

AL693
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103178**

OIL_GAS:

API #:	0405903863	Well #:	215
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 215
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903863		

Map ID
Direction
Distance

Database EDR ID Number

AK694
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101257**

OIL_GAS:

API #:	0405903070	Well #:	506A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 506A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903070		

AK695
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104548**

OIL_GAS:

API #:	0405903040	Well #:	S-127
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-127
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903040		

AF696
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104624**

OIL_GAS:

API #:	0405902974	Well #:	S-61
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-61
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902974		

Map ID
Direction
Distance

Database EDR ID Number

AF697
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104565**

OIL_GAS:

API #:	0405902926	Well #:	S-15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-15
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902926		

AH698
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102582**

OIL_GAS:

API #:	0405903781	Well #:	124
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 124
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903781		

AF699
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104459**

OIL_GAS:

API #:	0405901922	Well #:	J-2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901922		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AM700
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102722**

OIL_GAS:

API #:	0405903808	Well #:	154
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 154
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903808		

AK701
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101580**

OIL_GAS:

API #:	0405903111	Well #:	563A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 563A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903111		

AF702
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104623**

OIL_GAS:

API #:	0405902973	Well #:	S-60
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-60
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902973		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK703
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104549**

OIL_GAS:

API #:	0405903041	Well #:	S-128
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-128
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903041		

AH704
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102801**

OIL_GAS:

API #:	0405903823	Well #:	171
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 171
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903823		

AH705
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103812**

OIL_GAS:

API #:	0405900182	Well #:	45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 45
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900182		

Map ID
Direction
Distance

Database EDR ID Number

AF706
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104686**

OIL_GAS:

API #:	0405902925	Well #:	S916
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S916
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902925		

AF707
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101698**

OIL_GAS:

API #:	0405901921	Well #:	J-1A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-1A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901921		

AH708
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103202**

OIL_GAS:

API #:	0405903868	Well #:	221
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 221
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903868		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK709
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101267**

OIL_GAS:

API #:	0405903112	Well #:	564A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 564A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903112		

AK710
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101581**

OIL_GAS:

API #:	0405903113	Well #:	565
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 565
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903113		

AF711
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104483**

OIL_GAS:

API #:	0405900106	Well #:	J-55
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-55
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900106		

Map ID
Direction
Distance

Database EDR ID Number

AH712
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103206**

OIL_GAS:

API #:	0405903869	Well #:	222
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 222
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903869		

AH713
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000103822**

OIL_GAS:

API #:	0405900183	Well #:	46
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 46
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900183		

AM714
East
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102804**

OIL_GAS:

API #:	0405903824	Well #:	172
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 172
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903824		

AF715
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101715**

OIL_GAS:

API #:	0405902933	Well #:	S-22B
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-22B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902933		

AF716
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000101193**

OIL_GAS:

API #:	0405921557	Well #:	28
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 28
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921557		

AK717
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG17000102471**

OIL_GAS:

API #:	0405903765	Well #:	104
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 104
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903765		

AF718
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG17000104622**

OIL_GAS:

API #:	0405902972	Well #:	S-59A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-59A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore

Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902972		

AM719
East **OIL_GAS** **CAOG17000102720**
1/4 - 1/2 Mile

OIL_GAS:

API #:	0405903807	Well #:	153
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 153
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903807		

AH720
ESE **OIL_GAS** **CAOG17000103210**
1/4 - 1/2 Mile

OIL_GAS:

API #:	0405901919	Well #:	224
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 224
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901919		

AH721
ESE **OIL_GAS** **CAOG17000103826**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900184	Well #:	47
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 47
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900184		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF722
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101689**

OIL_GAS:

API #:	0405902810	Well #:	CJ-24A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-24A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902810		

AH723
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103831**

OIL_GAS:

API #:	0405900185	Well #:	48
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 48
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900185		

AI724
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102723**

OIL_GAS:

API #:	0405903809	Well #:	155
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 155
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903809		

Map ID
Direction
Distance

Database EDR ID Number

AF725
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104765**

OIL_GAS:

API #:	0405902834	Well #:	UJ-54
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-54
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902834		

AK726
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104721**

OIL_GAS:

API #:	0405921184	Well #:	T-49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 T-49
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921184		

AK727
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103981**

OIL_GAS:

API #:	0405903102	Well #:	554
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 554
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903102		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AJ728
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103979**

OIL_GAS:

API #:	0405903456	Well #:	55-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 55-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903456		

AK729
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103982**

OIL_GAS:

API #:	0405903104	Well #:	556B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 556B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903104		

AF730
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104621**

OIL_GAS:

API #:	0405902970	Well #:	S-57
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-57
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902970		

Map ID
Direction
Distance

Database EDR ID Number

AF731
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101540**

OIL_GAS:

API #:	0405921051	Well #:	38
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 38
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921051		

AL732
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102842**

OIL_GAS:

API #:	0405903834	Well #:	183
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 183
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903834		

AK733
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101266**

OIL_GAS:

API #:	0405903103	Well #:	555
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 555
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903103		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF734
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104685**

OIL_GAS:

API #:	0405902971	Well #:	S915
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S915
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902971		

AI735
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102846**

OIL_GAS:

API #:	0405903836	Well #:	185
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 185
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903836		

AK736
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104389**

OIL_GAS:

API #:	0405902783	Well #:	C-8
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-8
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902783		

Map ID
Direction
Distance

Database EDR ID Number

AN737
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101215**

OIL_GAS:

API #:	0405921054	Well #:	39
Well Type:	Steamflood	Well Status:	Idle
Lease Name:	State Prc 91	Well Design:	State Prc 91 39
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921054		

AN738
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104144**

OIL_GAS:

API #:	0405904040	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904040		

AK739
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101576**

OIL_GAS:

API #:	0405903099	Well #:	551 A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 551 A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903099		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN740
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104441**

OIL_GAS:

API #:	0405902909	Well #:	J-147
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-147
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902909		

AK741
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101345**

OIL_GAS:

API #:	0405902782	Well #:	C-7
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-7
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902782		

AL742
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104316**

OIL_GAS:

API #:	0405903756	Well #:	95
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 95
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903756		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AI743
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103960**

OIL_GAS:

API #:	0405903719	Well #:	53
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 53
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903719		

AN744
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101277**

OIL_GAS:

API #:	0405921060	Well #:	61
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 91	Well Design:	State Prc 91 61
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921060		

AO745
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103976**

OIL_GAS:

API #:	0405903721	Well #:	55
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 55
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903721		

Map ID
Direction
Distance

Database EDR ID Number

AI746
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102806**

OIL_GAS:

API #:	0405903825	Well #:	173
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 173
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903825		

AK747
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101256**

OIL_GAS:

API #:	0405903068	Well #:	504A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 504A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903068		

AN748
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104087**

OIL_GAS:

API #:	0405903730	Well #:	64
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 64
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903730		

Map ID
Direction
Distance

Database EDR ID Number

AK749
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104388**

OIL_GAS:

API #:	0405902781	Well #:	C-6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-6
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902781		

AN750
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104440**

OIL_GAS:

API #:	0405902908	Well #:	J-145
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 J-145
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902908		

AN751
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104078**

OIL_GAS:

API #:	0405921066	Well #:	62
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 62
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921066		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK752
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103255**

OIL_GAS:

API #:	0405907907	Well #:	24
Well Type:	Water Disposal	Well Status:	Plugged
Lease Name:	Water Source Well	Well Design:	Water Source Well 24
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05907907		

AP753
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102533**

OIL_GAS:

API #:	0405903507	Well #:	118
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 118
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903507		

AN754
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101347**

OIL_GAS:

API #:	0405902897	Well #:	CJ-132B
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 CJ-132B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	10/12/2020		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902897		

Map ID
Direction
Distance

Database EDR ID Number

AQ755
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102713**

OIL_GAS:

API #:	0405903805	Well #:	151
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 151
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903805		

AN756
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103947**

OIL_GAS:

API #:	0405903718	Well #:	52
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 52
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903718		

AI757
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103967**

OIL_GAS:

API #:	0405903720	Well #:	54
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 54
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903720		

AR758
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103925**

OIL_GAS:

API #:	0405903067	Well #:	503
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 503
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903067		

AN759
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104083**

OIL_GAS:

API #:	0405921074	Well #:	63
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 63
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921074		

AN760
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101598**

OIL_GAS:

API #:	0405921160	Well #:	70
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 70
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921160		

AK761
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104387**

OIL_GAS:

API #:	0405902780	Well #:	C-5
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-5
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		

Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902780		

AN762
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104729**

OIL_GAS:

API #:	0405902898	Well #:	UJ-133A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-133A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902898		

AS763
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103827**

OIL_GAS:

API #:	0405903448	Well #:	47
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 47
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903448		

AL764
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102480**

OIL_GAS:

API #:	0405903770	Well #:	109
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 109
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903770		

Map ID
Direction
Distance

Database EDR ID Number

AL765
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103986**

OIL_GAS:

API #:	0405903722	Well #:	56
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 56
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903722		

AN766
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104557**

OIL_GAS:

API #:	0405903052	Well #:	S-139
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-139
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903052		

AN767
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101537**

OIL_GAS:

API #:	0405920711	Well #:	37
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 37
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920711		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN768
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104182**

OIL_GAS:

API #:	0405903226	Well #:	78
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 78
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903226		

AR769
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101264**

OIL_GAS:

API #:	0405903097	Well #:	540A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 540A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903097		

AN770
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101445**

OIL_GAS:

API #:	0405902899	Well #:	UJ-134B
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-134B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902899		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR771
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104528**

OIL_GAS:

API #:	0405903024	Well #:	S-111
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-111
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903024		

AI772
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103213**

OIL_GAS:

API #:	0405903876	Well #:	226
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 226
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903876		

AN773
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101447**

OIL_GAS:

API #:	0405903051	Well #:	UJ-156
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-156
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903051		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AP774
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103969**

OIL_GAS:

API #:	0405903455	Well #:	54
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 54
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903455		

AN775
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101533**

OIL_GAS:

API #:	0405920709	Well #:	34
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 34
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920709		

AR776
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103964**

OIL_GAS:

API #:	0405903093	Well #:	530
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 530
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903093		

Map ID
Direction
Distance

Database EDR ID Number

AN777
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104066**

OIL_GAS:

API #:	0405921159	Well #:	60
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 60
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	07/23/1982		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921159		

AN778
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104728**

OIL_GAS:

API #:	0405902896	Well #:	UJ-131A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-131A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902896		

AR779
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101399**

OIL_GAS:

API #:	0405903023	Well #:	S-110A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-110A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903023		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN780
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103633**

OIL_GAS:

API #:	0405904070	Well #:	37
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 37
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904070		

AM781
East
1/2 - 1 Mile

OIL_GAS **CAOG17000104333**

OIL_GAS:

API #:	0405903489	Well #:	99
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 99
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903489		

AN782
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101403**

OIL_GAS:

API #:	0405903058	Well #:	S-146
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-146
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903058		

Map ID
Direction
Distance

Database EDR ID Number

AN783
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103628**

OIL_GAS:

API #:	0405920710	Well #:	36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 36
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920710		

AR784
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104771**

OIL_GAS:

API #:	0405921053	Well #:	UMZ-586
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 UMZ-586
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921053		

AM785
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102809**

OIL_GAS:

API #:	0405903827	Well #:	175
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 175
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903827		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN786
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104735**

OIL_GAS:

API #:	0405903053	Well #:	UJ-186
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-186
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903053		

AR787
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104525**

OIL_GAS:

API #:	0405903022	Well #:	S-109
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-109
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903022		

AN788
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103928**

OIL_GAS:

API #:	0405904152	Well #:	51
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 51
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904152		

Map ID
Direction
Distance

Database EDR ID Number

AN789
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101402**

OIL_GAS:

API #:	0405903050	Well #:	S-137A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-137A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903050		

AN790
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104562**

OIL_GAS:

API #:	0405903057	Well #:	S-145A
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-145A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903057		

AN791
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103735**

OIL_GAS:

API #:	0405921101	Well #:	40
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 40
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921101		

Map ID
Direction
Distance

Database EDR ID Number

AR792
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101745**

OIL_GAS:

API #:	0405921073	Well #:	UMZ-587
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 425	Well Design:	State Prc 425 UMZ-587
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921073		

AN793
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104727**

OIL_GAS:

API #:	0405902895	Well #:	UJ-130A
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 UJ-130A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902895		

AR794
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104372**

OIL_GAS:

API #:	0405902776	Well #:	C-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902776		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR795
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101262**

OIL_GAS:

API #:	0405903084	Well #:	520A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 425	Well Design:	State Prc 425 520A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903084		

AT796
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102586**

OIL_GAS:

API #:	0405903783	Well #:	126
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 126
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903783		

AR797
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104386**

OIL_GAS:

API #:	0405902779	Well #:	C-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902779		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR798
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103933**

OIL_GAS:

API #:	0405903074	Well #:	510
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 510
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903074		

AR799
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104384**

OIL_GAS:

API #:	0405902778	Well #:	C-3
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902778		

AS800
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103386**

OIL_GAS:

API #:	0405900142	Well #:	295
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 295
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900142		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AS801
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103249**

OIL_GAS:

API #:	0405903616	Well #:	237
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 237
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903616		

AR802
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103991**

OIL_GAS:

API #:	0405903110	Well #:	562A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 562A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903110		

AR803
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104379**

OIL_GAS:

API #:	0405902777	Well #:	C-2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 C-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902777		

Map ID
Direction
Distance

Database EDR ID Number

AT804
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102523**

OIL_GAS:

API #:	0405903773	Well #:	113
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 113
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903773		

AS805
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103329**

OIL_GAS:

API #:	0405903640	Well #:	265-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 265-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903640		

AP806
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102674**

OIL_GAS:

API #:	0405900001	Well #:	144
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 144
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900001		

AR807
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103990**

OIL_GAS:

API #:	0405903109	Well #:	561
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 425	Well Design:	State Prc 425 561
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903109		

AR808
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104524**

OIL_GAS:

API #:	0405903021	Well #:	S-108
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-108
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903021		

AS809
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103332**

OIL_GAS:

API #:	0405903642	Well #:	267-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 267-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903642		

AU810
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103242**

OIL_GAS:

API #:	0405903613	Well #:	234
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 234
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903613		

AR811
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104523**

OIL_GAS:

API #:	0405903020	Well #:	S-107
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-107
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903020		

812
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103813**

OIL_GAS:

API #:	0405903446	Well #:	45-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 45-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903446		

AU813
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103309**

OIL_GAS:

API #:	0405903636	Well #:	259
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 259
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903636		

Map ID
Direction
Distance

Database EDR ID Number

AU814
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103371**

OIL_GAS:

API #:	0405900140	Well #:	288
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 288
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900140		

AQ815
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102626**

OIL_GAS:

API #:	0405903790	Well #:	135
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 135
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903790		

AQ816
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102730**

OIL_GAS:

API #:	0405903811	Well #:	159
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 159
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903811		

AQ817
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103151**

OIL_GAS:

API #:	0405903856	Well #:	208
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 208
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903856		

AR818
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101398**

OIL_GAS:

API #:	0405903019	Well #:	S-106A
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-106A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903019		

AV819
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103708**

OIL_GAS:

API #:	0405904110	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904110		

AU820
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103334**

OIL_GAS:

API #:	0405903644	Well #:	269
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 269
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903644

AN821
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103457**

OIL_GAS:

API #:	0405904109	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904109		

AW822
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102466**

OIL_GAS:

API #:	0405903492	Well #:	103
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 103
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903492		

AN823
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102900**

OIL_GAS:

API #:	0405904108	Well #:	2
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904108		

Map ID
Direction
Distance

Database EDR ID Number

AV824
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103885**

OIL_GAS:

API #:	0405904111	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904111		

AV825
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103917**

OIL_GAS:

API #:	0405920075	Well #:	50
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 50
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920075		

AR826
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104522**

OIL_GAS:

API #:	0405903018	Well #:	S-105
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 S-105
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903018		

Map ID
Direction
Distance

Database EDR ID Number

AX827
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102632**

OIL_GAS:

API #:	0405903793	Well #:	138
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 138
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903793		

AY828
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102825**

OIL_GAS:

API #:	0405904051	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 18
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904051		

AO829
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104058**

OIL_GAS:

API #:	0405904112	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904112		

AS830
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000104170**

OIL_GAS:

API #:	0405903469	Well #:	74
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 74
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903469		

AQ831
ESE **OIL_GAS** **CAOG17000102631**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903792	Well #:	137
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 137
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903792		

AO832
ESE **OIL_GAS** **CAOG17000103377**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904135	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 29
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904135		

AN833
SE **OIL_GAS** **CAOG17000104295**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902737	Well #:	91-M-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 91-M-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902737

AO834
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104122**

OIL_GAS:

API #:	0405904113	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904113		

AV835
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101785**

OIL_GAS:

API #:	0405902093	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 979	Well Design:	State Prc 979 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902093		

AZ836
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103995**

OIL_GAS:

API #:	0405903457	Well #:	57
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 57
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903457		

Map ID
Direction
Distance

Database EDR ID Number

AY837
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103312**

OIL_GAS:

API #:	0405902734	Well #:	25A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 25A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902734		

838
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103645**

OIL_GAS:

API #:	0405903440	Well #:	39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 39
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903440		

AV839
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103114**

OIL_GAS:

API #:	0405904354	Well #:	2-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 2-1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904354		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AV840
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101779**

OIL_GAS:

API #:	0405904359	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Schwartz Comm.	Well Design:	Schwartz Comm. 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904359		

AQ841
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102530**

OIL_GAS:

API #:	0405903775	Well #:	116
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 116
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903775		

AV842
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103604**

OIL_GAS:

API #:	0405901881	Well #:	340
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 340
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901881		

Map ID
Direction
Distance

Database EDR ID Number

AV843
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102099**

OIL_GAS:

API #:	0405902271	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lambert	Well Design:	Lambert 1
Operator ID:	08385	Operator Name:	The Petrol Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902271		

BA844
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102866**

OIL_GAS:

API #:	0405904125	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 19
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904125		

AV845
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104157**

OIL_GAS:

API #:	0405901886	Well #:	71
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Scoc	Well Design:	Scoc 71
Operator ID:	K0690	Operator Name:	Richard P. Kelter
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901886		

AV846
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102899**

OIL_GAS:

API #:	0405901456	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hbv	Well Design:	Hbv 2
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901456		

BB847
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102477**

OIL_GAS:

API #:	0405903768	Well #:	107
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 107
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903768		

AY848
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103084**

OIL_GAS:

API #:	0405901656	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Jones	Well Design:	Jones 2
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901656		

BA849
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102374**

OIL_GAS:

API #:	0405904388	Well #:	1-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1-1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904388

AV850
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102097**

OIL_GAS:

API #:	0405901400	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ward	Well Design:	Ward 1
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901400		

AV851
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102893**

OIL_GAS:

API #:	0405902100	Well #:	1A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 981	Well Design:	State Prc 981 1A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902100		

AV852
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101786**

OIL_GAS:

API #:	0405902096	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	S & G	Well Design:	S & G 1
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902096		

Map ID
Direction
Distance

Database EDR ID Number

AV853
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101788**

OIL_GAS:

API #:	0405901655	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 1330	Well Design:	State Prc 1330 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901655		

AV854
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102095**

OIL_GAS:

API #:	0405904333	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904333		

AV855
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101782**

OIL_GAS:

API #:	0405902091	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 978	Well Design:	State Prc 978 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902091		

Map ID
Direction
Distance

Database EDR ID Number

AV856
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102101**

OIL_GAS:

API #:	0405904217	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Vickers Community	Well Design:	Vickers Community 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904217		

BC857
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102897**

OIL_GAS:

API #:	0405904218	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Vickers Community	Well Design:	Vickers Community 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904218		

BA858
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103358**

OIL_GAS:

API #:	0405904134	Well #:	28
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 28
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904134		

AT859
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103124**

OIL_GAS:

API #:	0405904126	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 20
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904126		

AV860
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102652**

OIL_GAS:

API #:	0405901564	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 14
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901564		

BA861
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102077**

OIL_GAS:

API #:	0405901603	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lambert	Well Design:	Lambert 1
Operator ID:	D3750	Operator Name:	Donald E Douglas &
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901603		

AZ862
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103531**

OIL_GAS:

API #:	0405900145	Well #:	302
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 302
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05900145

BD863
ENE **OIL_GAS** **CAOG17000103792**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903443	Well #:	42
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 42
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903443		

AU864
ENE **OIL_GAS** **CAOG17000103946**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903453	Well #:	52
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 52
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903453		

BA865
ESE **OIL_GAS** **CAOG17000103888**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902141	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Texaco	Well Design:	Texaco 5
Operator ID:	M8100	Operator Name:	Morton and Dolley
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902141		

Map ID
Direction
Distance

Database EDR ID Number

AY866
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102399**

OIL_GAS:

API #:	0405904034	Well #:	1-X1
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 1-X1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904034		

BA867
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103886**

OIL_GAS:

API #:	0405901790	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach	Well Design:	Huntington Beach 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901790		

BD868
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000104012**

OIL_GAS:

API #:	0405903459	Well #:	59
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 59
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903459		

BA869
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102646**

OIL_GAS:

API #:	0405901565	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 14
Operator ID:	06354	Operator Name:	O. L. Bolton Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901565		

AW870
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103305**

OIL_GAS:

API #:	0405903633	Well #:	256
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 256
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903633		

AY871
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103376**

OIL_GAS:

API #:	0405904062	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 29
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904062		

AT872
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103257**

OIL_GAS:

API #:	0405904130	Well #:	24
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 24
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904130

BA873
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103566**

OIL_GAS:

API #:	0405904138	Well #:	32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 32
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904138		

AW874
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103372**

OIL_GAS:

API #:	0405900141	Well #:	289
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 289
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900141		

AW875
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103220**

OIL_GAS:

API #:	0405903608	Well #:	229
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 229
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903608		

Map ID
Direction
Distance

Database EDR ID Number

AZ876
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103327**

OIL_GAS:

API #:	0405900369	Well #:	264
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 264
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900369		

AW877
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103352**

OIL_GAS:

API #:	0405903650	Well #:	277
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 277
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903650		

BA878
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104209**

OIL_GAS:

API #:	0405904114	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 8
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904114		

AW879
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103537**

OIL_GAS:

API #:	0405920403	Well #:	308
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 308
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920403		

BA880
ESE **OIL_GAS** **CAOG17000104013**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900941	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 6
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900941		

AW881
East **OIL_GAS** **CAOG17000103201**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903599	Well #:	220
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 220
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903599		

BA882
ESE **OIL_GAS** **CAOG17000103521**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901598	Well #:	30
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Camp	Well Design:	Camp 30
Operator ID:	A1000	Operator Name:	Alexander Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901598

AW883
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103368**

OIL_GAS:

API #:	0405903655	Well #:	285
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 285
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903655		

AW884
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103271**

OIL_GAS:

API #:	0405900136	Well #:	243-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 243-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900136		

AW885
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103661**

OIL_GAS:

API #:	0405903670	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-E Line Well	Well Design:	Huntington A-E Line Well 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903670		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AW886
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102818**

OIL_GAS:

API #:	0405903561	Well #:	179
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 179
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903561		

AV887
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103082**

OIL_GAS:

API #:	0405904685	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	W.K.	Well Design:	W.K. 2
Operator ID:	08919	Operator Name:	W. K. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904685		

AV888
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103391**

OIL_GAS:

API #:	0405903275	Well #:	2A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 984	Well Design:	State Prc 984 2A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903275		

Map ID
Direction
Distance

Database EDR ID Number

AV889
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102096**

OIL_GAS:

API #:	0405901458	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gilmore	Well Design:	Gilmore 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901458		

AV890
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104330**

OIL_GAS:

API #:	0405903277	Well #:	986
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 986
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903277		

BA891
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103659**

OIL_GAS:

API #:	0405900807	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 4
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900807		

Map ID
Direction
Distance

Database EDR ID Number

BA892
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103078**

OIL_GAS:

API #:	0405901604	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lambert	Well Design:	Lambert 2
Operator ID:	A1000	Operator Name:	Alexander Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901604		

AV893
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101776**

OIL_GAS:

API #:	0405901455	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gillette 6	Well Design:	Gillette 6 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901455		

BA894
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104119**

OIL_GAS:

API #:	0405900942	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 7
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900942		

AV895
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103164**

OIL_GAS:

API #:	0405904683	Well #:	21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 21
Operator ID:	08919	Operator Name:	W. K. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904683		

AY896
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104272**

OIL_GAS:

API #:	0405902719	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902719		

AW897
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103385**

OIL_GAS:

API #:	0405900427	Well #:	294
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 294
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900427		

AY898
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101784**

OIL_GAS:

API #:	0405904107	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904107

BE899
ESE **OIL_GAS** **CAOG17000103342**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904133	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 27
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904133		

AW900
ENE **OIL_GAS** **CAOG17000104166**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903468	Well #:	73
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 73
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903468		

BC901
ESE **OIL_GAS** **CAOG17000102904**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901607	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Stafford	Well Design:	Stafford 2
Operator ID:	02706	Operator Name:	Estate of Chas. W. Camp
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901607		

Map ID
Direction
Distance

Database EDR ID Number

AW902
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103233**

OIL_GAS:

API #:	0405903609	Well #:	230
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 230
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903609		

AY903
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103884**

OIL_GAS:

API #:	0405902715	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 5
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902715		

AW904
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103388**

OIL_GAS:

API #:	0405900143	Well #:	297
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 297
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900143		

Map ID
Direction
Distance

Database EDR ID Number

BC905
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102707**

OIL_GAS:

API #:	0405901566	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 15
Operator ID:	V1400	Operator Name:	Robert D. Vigue
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901566		

BA906
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103657**

OIL_GAS:

API #:	0405902361	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rohrig	Well Design:	Rohrig 4
Operator ID:	D3750	Operator Name:	Donald E Douglas &
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902361		

AW907
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103251**

OIL_GAS:

API #:	0405903617	Well #:	238
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 238
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903617		

AW908
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103366**

OIL_GAS:

API #:	0405903653	Well #:	282
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 282
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903653		

AX909
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102528**

OIL_GAS:

API #:	0405903774	Well #:	115
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington B	Well Design:	Huntington B 115
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903774		

BC910
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101761**

OIL_GAS:

API #:	0405901798	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Tubach	Well Design:	Tubach 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901798		

AV911
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104329**

OIL_GAS:

API #:	0405903276	Well #:	985
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 985
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903276

BA912
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103393**

OIL_GAS:

API #:	0405901789	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach	Well Design:	Huntington Beach 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901789		

AW913
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103208**

OIL_GAS:

API #:	0405903602	Well #:	223
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 223
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903602		

BA914
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102070**

OIL_GAS:

API #:	0405901554	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 1
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901554		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AV915
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103605**

OIL_GAS:

API #:	0405904684	Well #:	341
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 341
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904684		

AY916
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104056**

OIL_GAS:

API #:	0405902716	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 6
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902716		

AW917
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103185**

OIL_GAS:

API #:	0405903598	Well #:	219
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 219
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903598		

Map ID
Direction
Distance

Database EDR ID Number

AW918
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103384**

OIL_GAS:

API #:	0405903661	Well #:	293
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 293
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903661		

BF919
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102529**

OIL_GAS:

API #:	0405903505	Well #:	116
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 116
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903505		

BA920
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102072**

OIL_GAS:

API #:	0405901795	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Montgomery	Well Design:	Montgomery 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901795		

AX921
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102461**

OIL_GAS:

API #:	0405903491	Well #:	102
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 102
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903491		

BE922
ESE **OIL_GAS** **CAOG17000104117**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902356	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Ring Oil Co.	Well Design:	7
Operator ID:	07312	Operator Name:	Ring Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902356		

BB923
NW **OIL_GAS** **CAOG17000101324**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902754	Well #:	B-1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902754		

BC924
ESE **OIL_GAS** **CAOG17000103655**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901836	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hamilton	Well Design:	Hamilton 4
Operator ID:	V1400	Operator Name:	Robert D. Vigue
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901836

BA925
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103076**

OIL_GAS:

API #:	0405902217	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Superior	Well Design:	Superior 2
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902217		

BF926
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103535**

OIL_GAS:

API #:	0405900149	Well #:	306
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 306
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900149		

BG927
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103806**

OIL_GAS:

API #:	0405903445	Well #:	44
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 44
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903445		

Map ID
Direction
Distance

Database EDR ID Number

BA928
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102093**

OIL_GAS:

API #:	0405904349	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	00855	Operator Name:	Boe Tunstall Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904349		

BC929
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102906**

OIL_GAS:

API #:	0405902081	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Paul F. McKenzie	Well Design:	2
Operator ID:	06695	Operator Name:	Paul F. McKenzie
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902081		

AY930
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104124**

OIL_GAS:

API #:	0405902717	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 7
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902717		

Map ID
Direction
Distance

Database EDR ID Number

BG931
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103557**

OIL_GAS:

API #:	0405921203	Well #:	317
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 317
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921203		

BC932
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103355**

OIL_GAS:

API #:	0405901600	Well #:	28
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Camp	Well Design:	Camp 28
Operator ID:	02706	Operator Name:	Estate of Chas. W. Camp
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901600		

BA933
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103394**

OIL_GAS:

API #:	0405901835	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hamilton	Well Design:	Hamilton 3
Operator ID:	V1400	Operator Name:	Robert D. Vigue
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901835		

BB934
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104353**

OIL_GAS:

API #:	0405902755	Well #:	B-2
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902755		

BE935
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103462**

OIL_GAS:

API #:	0405902360	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rohrig	Well Design:	Rohrig 3
Operator ID:	D3750	Operator Name:	Donald E Douglas &
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902360		

AX936
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102464**

OIL_GAS:

API #:	0405903667	Well #:	102-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-E Line Well	Well Design:	Huntington A-E Line Well 102-B
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903667		

BA937
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101755**

OIL_GAS:

API #:	0405904096	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Stein	Well Design:	Stein 1
Operator ID:	C9100	Operator Name:	Crown Central Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904096

AY938
SE **OIL_GAS** **CAOG17000104203**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902718	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 8
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902718		

BH939
SE **OIL_GAS** **CAOG17000102539**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904118	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 12
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904118		

BH940
SE **OIL_GAS** **CAOG17000102898**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903278	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 1344	Well Design:	State Prc 1344 2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903278		

Map ID
Direction
Distance

Database EDR ID Number

BE941
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104118**

OIL_GAS:

API #:	0405902363	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rohrig	Well Design:	Rohrig 7
Operator ID:	D3750	Operator Name:	Donald E Douglas &
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902363		

BB942
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101332**

OIL_GAS:

API #:	0405902756	Well #:	B-3
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902756		

BC943
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102421**

OIL_GAS:

API #:	0405901889	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ambassador	Well Design:	Ambassador 10
Operator ID:	E3700	Operator Name:	Exxon Mobil Corporation
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901889		

Map ID
Direction
Distance

Database EDR ID Number

BB944
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104364**

OIL_GAS:

API #:	0405902762	Well #:	B-9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902762		

BH945
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103652**

OIL_GAS:

API #:	0405901780	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Coffin	Well Design:	Coffin 4
Operator ID:	H2200	Operator Name:	J. I. Hathaway, Opr.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901780		

BC946
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102894**

OIL_GAS:

API #:	0405902097	Well #:	1A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 982	Well Design:	State Prc 982 1A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902097		

Map ID
Direction
Distance

Database EDR ID Number

BG947
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103235**

OIL_GAS:

API #:	0405903610	Well #:	231
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 231
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903610		

AY948
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101787**

OIL_GAS:

API #:	0405904536	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904536		

BG949
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103558**

OIL_GAS:

API #:	0405921215	Well #:	318
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 318
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921215		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

950
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103832**

OIL_GAS:

API #:	0405903449	Well #:	48
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 48
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903449		

BH951
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104323**

OIL_GAS:

API #:	0405903274	Well #:	977
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 977
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903274		

BA952
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102907**

OIL_GAS:

API #:	0405901557	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 2
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901557		

Map ID
Direction
Distance

Database EDR ID Number

BA953
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102087**

OIL_GAS:

API #:	0405902120	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	05100	Operator Name:	L. H. Miller-Nicolai & Son
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902120		

BH954
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101777**

OIL_GAS:

API #:	0425901651	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Severns	Well Design:	Severns 1
Operator ID:	05326	Operator Name:	Lido Petro. Co.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25901651		

BE955
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104014**

OIL_GAS:

API #:	0405902362	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rohrig	Well Design:	Rohrig 6
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902362		

BB956
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104359**

OIL_GAS:

API #:	0405902757	Well #:	B-4
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902757		

BI957
North **OIL_GAS** **CAOG17000102834**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903562	Well #:	180
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 180
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903562		

BE958
ESE **OIL_GAS** **CAOG17000103079**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904350	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2
Operator ID:	00855	Operator Name:	Boe Tunstall Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904350		

BB959
NW **OIL_GAS** **CAOG17000104348**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902763	Well #:	B-10
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-10
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902763		

BG960
NNE **OIL_GAS** **CAOG17000103559**
1/2 - 1 Mile

OIL_GAS:

API #:	0405921214	Well #:	319
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 319
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921214		

BH961
SE **OIL_GAS** **CAOG17000103577**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920045	Well #:	33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 33
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920045		

BA962
ESE **OIL_GAS** **CAOG17000101757**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904364	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Talbert	Well Design:	Talbert 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904364		

Map ID
Direction
Distance

Database EDR ID Number

BG963
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103252**

OIL_GAS:

API #:	0405903618	Well #:	239
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 239
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903618		

BA964
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102903**

OIL_GAS:

API #:	0405902121	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2
Operator ID:	05100	Operator Name:	L. H. Miller-Nicolai & Son
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902121		

BG965
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103147**

OIL_GAS:

API #:	0405903585	Well #:	205
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 205
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903585		

BJ966
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103456**

OIL_GAS:

API #:	0405904738	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 3
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904738		

BH967
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103587**

OIL_GAS:

API #:	0405901432	Well #:	331
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 331
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901432		

BB968
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104360**

OIL_GAS:

API #:	0405902758	Well #:	B-5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-5
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902758		

BE969
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103916**

OIL_GAS:

API #:	0405901616	Well #:	5-65
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Nina Bell	Well Design:	Nina Bell 5-65
Operator ID:	K1000	Operator Name:	Kernview Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901616		

BC970
SE **OIL_GAS** **CAOG17000104204**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901888	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ambassador	Well Design:	Ambassador 8
Operator ID:	E3700	Operator Name:	Exxon Mobil Corporation
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901888		

BB971
NW **OIL_GAS** **CAOG17000104349**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902764	Well #:	B-11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-11
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902764		

BA972
ESE **OIL_GAS** **CAOG17000102085**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901584	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 1
Operator ID:	02833	Operator Name:	F. G. Butler
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901584		

Map ID
Direction
Distance

Database EDR ID Number

BH973
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103653**

OIL_GAS:

API #:	0405904739	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 4
Operator ID:	09170	Operator Name:	Westoil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904739		

BE974
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103625**

OIL_GAS:

API #:	0405904142	Well #:	36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 36
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904142		

BH975
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102100**

OIL_GAS:

API #:	0405901715	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Anderson	Well Design:	Anderson 1
Operator ID:	01977	Operator Name:	D. D. Dunlap
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901715		

BC976
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104062**

OIL_GAS:

API #:	0405901851	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Colestock	Well Design:	Colestock 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901851		

BC977
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104296**

OIL_GAS:

API #:	0405901865	Well #:	919
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 919
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901865		

BA978
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104061**

OIL_GAS:

API #:	0405904342	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Transcontinental Oil Co.		
Well Design:	6	Operator ID:	08522
Operator Name:	Transcontinental Oil Co.	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904342		

BJ979
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104328**

OIL_GAS:

API #:	0405902098	Well #:	983
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 983
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902098		

BH980
SE **OIL_GAS** **CAOG17000102098**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901434	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Chudnow	Well Design:	Chudnow 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901434		

BG981
NNE **OIL_GAS** **CAOG17000103551**
1/2 - 1 Mile

OIL_GAS:

API #:	0405921200	Well #:	311
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 311
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921200		

BB982
NW **OIL_GAS** **CAOG17000104361**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902759	Well #:	B-6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-6
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902759		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BC983
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102071**

OIL_GAS:

API #:	0405904216	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Anna C. Vickers	Well Design:	Anna C. Vickers 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904216		

BB984
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104350**

OIL_GAS:

API #:	0405902765	Well #:	B-12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-12
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902765		

BC985
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103516**

OIL_GAS:

API #:	0405904136	Well #:	30
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 30
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904136		

Map ID
Direction
Distance

Database EDR ID Number

BE986
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102081**

OIL_GAS:

API #:	0405904387	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Farwell	Well Design:	Farwell 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904387		

BA987
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103392**

OIL_GAS:

API #:	0405902122	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 3
Operator ID:	05100	Operator Name:	L. H. Miller-Nicolai & Son
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902122		

BK988
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103313**

OIL_GAS:

API #:	0405904132	Well #:	26
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 26
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904132		

BC989
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102495**

OIL_GAS:

API #:	0405904117	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 11
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904117		

BB990
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104362**

OIL_GAS:

API #:	0405902760	Well #:	B-7
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-7
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902760		

BH991
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103607**

OIL_GAS:

API #:	0405904036	Well #:	343-3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 343-3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904036		

BB992
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104351**

OIL_GAS:

API #:	0405902766	Well #:	B-14
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-14
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore

Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902766		

BL993
NNE **OIL_GAS** **CAOG17000103821**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903447	Well #:	46
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 46
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903447		

BM994
ESE **OIL_GAS** **CAOG17000103881**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900810	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 5
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900810		

BE995
ESE **OIL_GAS** **CAOG17000103670**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902285	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 4
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902285		

Map ID
Direction
Distance

Database EDR ID Number

BN996
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102683**

OIL_GAS:

API #:	0405900133	Well #:	148
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 148
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900133		

BM997
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103546**

OIL_GAS:

API #:	0405904137	Well #:	31
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 31
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904137		

BO998
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104363**

OIL_GAS:

API #:	0405902761	Well #:	B-8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-8
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902761		

Map ID
Direction
Distance

Database EDR ID Number

BM999
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102086**

OIL_GAS:

API #:	0405904313	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	04521	Operator Name:	Jack Thomas
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904313		

BG1000
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103281**

OIL_GAS:

API #:	0405903626	Well #:	248
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 248
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903626		

BE1001
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102870**

OIL_GAS:

API #:	0405902162	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 19
Operator ID:	09567	Operator Name:	Floyd R. Ten Eyck
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902162		

BE1002
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102415**

OIL_GAS:

API #:	0405902161	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 10
Operator ID:	J0300	Operator Name:	Jacat Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902161		

BL1003
NNE **OIL_GAS** **CAOG17000102680**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903532	Well #:	146
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 146
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903532		

BE1004
ESE **OIL_GAS** **CAOG17000103080**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902283	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 2
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902283		

BO1005
NW **OIL_GAS** **CAOG17000103541**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903353	Well #:	31
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bolsa	Well Design:	Bolsa 31
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903353

BE1006
ESE **OIL_GAS** **CAOG17000104257**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900950	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 9
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900950		

BM1007
ESE **OIL_GAS** **CAOG17000102741**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904122	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 16
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904122		

BI1008
NNE **OIL_GAS** **CAOG17000103552**
1/2 - 1 Mile

OIL_GAS:

API #:	0405921204	Well #:	312
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 312
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921204		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BH1009
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102387**

OIL_GAS:

API #:	0405901892	Well #:	1-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 920	Well Design:	State Prc 920 1-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901892		

BM1010
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103159**

OIL_GAS:

API #:	0405904127	Well #:	21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 21
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904127		

BO1011
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104354**

OIL_GAS:

API #:	0405902772	Well #:	B-20
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902772		

Map ID
Direction
Distance

Database EDR ID Number

BM1012
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103578**

OIL_GAS:

API #:	0405904139	Well #:	33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 33
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904139		

BJ1013
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102645**

OIL_GAS:

API #:	0405904120	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 14
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904120		

BH1014
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102398**

OIL_GAS:

API #:	0405904373	Well #:	1-X1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Tubach	Well Design:	Tubach 1-X1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904373		

BM1015
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103460**

OIL_GAS:

API #:	0405900082	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 3
Operator ID:	B6137	Operator Name:	Brindle/Thomas
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900082		

BH1016
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102075**

OIL_GAS:

API #:	0405901660	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Schwartz	Well Design:	Schwartz 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901660		

BO1017
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101683**

OIL_GAS:

API #:	0405902767	Well #:	B-15
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-15
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902767		

BE1018
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103406**

OIL_GAS:

API #:	0405902284	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 3
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05902284

BH1019
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101780**

OIL_GAS:

API #:	0405900076	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gillette 7	Well Design:	Gillette 7 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900076		

BH1020
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102785**

OIL_GAS:

API #:	0405902726	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 17
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902726		

BI1021
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103554**

OIL_GAS:

API #:	0405921202	Well #:	314
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 314
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921202		

Map ID
Direction
Distance

Database EDR ID Number

BK1022
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103378**

OIL_GAS:

API #:	0405901597	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Camp	Well Design:	Camp 29
Operator ID:	J0300	Operator Name:	Jacat Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901597		

BI1023
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103555**

OIL_GAS:

API #:	0405921206	Well #:	315
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 315
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921206		

BJ1024
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101763**

OIL_GAS:

API #:	0405902358	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Superior	Well Design:	Superior 1
Operator ID:	05111	Operator Name:	L. L. Robertson and R. S. Moore
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902358		

BF1025
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103929**

OIL_GAS:

API #:	0405903452	Well #:	51
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 51
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903452		

BO1026
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104355**

OIL_GAS:

API #:	0405902773	Well #:	B-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902773		

BK1027
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103343**

OIL_GAS:

API #:	0405901596	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Camp	Well Design:	Camp 27
Operator ID:	J0300	Operator Name:	Jacat Oil Co.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901596		

BE1028
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102346**

OIL_GAS:

API #:	0405902243	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Heffner	Well Design:	Heffner 1
Operator ID:	P0015	Operator Name:	P & M Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902243

BJ1029
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102069**

OIL_GAS:

API #:	0405902202	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bolton	Well Design:	Bolton 1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902202		

BJ1030
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101756**

OIL_GAS:

API #:	0405904374	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Turner	Well Design:	Turner 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904374		

BO1031
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104352**

OIL_GAS:

API #:	0405902768	Well #:	B-16
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902768		

Map ID
Direction
Distance

Database EDR ID Number

BH1032
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102732**

OIL_GAS:

API #:	0405902725	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902725		

BJ1033
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104145**

OIL_GAS:

API #:	0405901563	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mize	Well Design:	Mize 7
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901563		

BI1034
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103556**

OIL_GAS:

API #:	0405921207	Well #:	316
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 316
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921207		

Map ID
Direction
Distance

Database EDR ID Number

BM1035
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102350**

OIL_GAS:

API #:	0405901779	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bonsall	Well Design:	Bonsall 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901779		

BH1036
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101225**

OIL_GAS:

API #:	0405921525	Well #:	41
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Water Source Well	Well Design:	Water Source Well 41
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921525		

BH1037
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103742**

OIL_GAS:

API #:	0405901893	Well #:	400
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 400
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901893		

Map ID
Direction
Distance

Database EDR ID Number

BH1038
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102074**

OIL_GAS:

API #:	0405901641	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Humphreys-Christenson	Well Design:	Humphreys-Christenson 1
Operator ID:	08250	Operator Name:	Ted Christenson California Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901641		

BH1039
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102705**

OIL_GAS:

API #:	0405902724	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 15
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902724		

BG1040
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102686**

OIL_GAS:

API #:	0405903534	Well #:	149
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 149
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903534		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BO1041
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104356**

OIL_GAS:

API #:	0405902774	Well #:	B-22A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-22A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902774		

BM1042
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102092**

OIL_GAS:

API #:	0405901850	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lytle	Well Design:	Lytle 1
Operator ID:	04023	Operator Name:	Hogan & Lytle, Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901850		

BO1043
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101684**

OIL_GAS:

API #:	0405902769	Well #:	B-17A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-17A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902769		

Map ID
Direction
Distance

Database EDR ID Number

BH1044
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104303**

OIL_GAS:

API #:	0405901875	Well #:	920-19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-19
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901875		

BH1045
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102742**

OIL_GAS:

API #:	0405901872	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 920	Well Design:	State Prc 920 16
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901872		

BF1046
East
1/2 - 1 Mile

OIL_GAS **CAOG17000104068**

OIL_GAS:

API #:	0405903460	Well #:	60
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 60
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903460		

Map ID
Direction
Distance

Database EDR ID Number

BO1047
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000104357**

OIL_GAS:

API #:	0405902775	Well #:	B-23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-23
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902775		

BE1048
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102337**

OIL_GAS:

API #:	0405901408	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Graves	Well Design:	Graves 1
Operator ID:	04404	Operator Name:	J. J. Baker
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901408		

BH1049
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102647**

OIL_GAS:

API #:	0405902723	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 14
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902723		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BO1050
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101329**

OIL_GAS:

API #:	0405902770	Well #:	B-18
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902770		

BM1051
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101132**

OIL_GAS:

API #:	0405902213	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Pursell	Well Design:	Pursell 1
Operator ID:	G2030	Operator Name:	Golden Bee, Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902213		

BP1052
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103702**

OIL_GAS:

API #:	0405902223	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	W.K.	Well Design:	W.K. 4
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902223		

Map ID
Direction
Distance

Database EDR ID Number

BM1053
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104063**

OIL_GAS:

API #:	0405901361	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Texaco	Well Design:	Texaco 6
Operator ID:	A4400	Operator Name:	Atlantic Oil Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901361		

1054
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103637**

OIL_GAS:

API #:	0405903438	Well #:	37
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 37
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903438		

BM1055
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104271**

OIL_GAS:

API #:	0405901796	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Montgomery	Well Design:	Montgomery 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901796		

BQ1056
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104090**

OIL_GAS:

API #:	0405903462	Well #:	65
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 65
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903462		

BI1057
NNE **OIL_GAS** **CAOG17000102668**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903529	Well #:	142
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 142
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903529		

BM1058
ESE **OIL_GAS** **CAOG17000104208**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900809	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lansdale	Well Design:	Lansdale 8
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900809		

BK1059
ESE **OIL_GAS** **CAOG17000102417**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901828	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 10
Operator ID:	H0925	Operator Name:	Henry Lynn Hall
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901828

BH1060
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104322**

OIL_GAS:

API #:	0405904524	Well #:	976
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 976
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904524		

BH1061
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102549**

OIL_GAS:

API #:	0405902722	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 12
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902722		

BO1062
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101685**

OIL_GAS:

API #:	0405902771	Well #:	B-19A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 392	Well Design:	State Prc 392 B-19A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902771		

Map ID
Direction
Distance

Database EDR ID Number

BI1063
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103553**

OIL_GAS:

API #:	0405921205	Well #:	313
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 313
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921205		

BJ1064
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103880**

OIL_GAS:

API #:	0405901490	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Steans	Well Design:	Steans 5
Operator ID:	00767	Operator Name:	Bestmi Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901490		

BR1065
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104113**

OIL_GAS:

API #:	0405902405	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.Fee	Well Design:	H.B.Fee 7
Operator ID:	S0100	Operator Name:	S & C Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902405		

BI1066
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104298**

OIL_GAS:

API #:	0405903483	Well #:	92
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 92
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903483		

BH1067
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103939**

OIL_GAS:

API #:	0405904525	Well #:	516-3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 516-3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904525		

BR1068
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102955**

OIL_GAS:

API #:	0405901647	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Coast Oil Co.	Well Design:	2
Operator ID:	01723	Operator Name:	Coast Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901647		

BS1069
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103651**

OIL_GAS:

API #:	0405902714	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902714		

BJ1070
SE **OIL_GAS** **CAOG17000103077**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901457	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gillette 7	Well Design:	Gillette 7 2
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901457		

BG1071
NE **OIL_GAS** **CAOG17000102805**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903556	Well #:	172
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 172
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903556		

BJ1072
SE **OIL_GAS** **CAOG17000102706**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904121	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 15
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904121		

Map ID
Direction
Distance

Database EDR ID Number

BM1073
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103508**

OIL_GAS:

API #:	0405902206	Well #:	3-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 3-1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902206		

BT1074
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103761**

OIL_GAS:

API #:	0405903442	Well #:	41
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 41
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903442		

BJ1075
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101760**

OIL_GAS:

API #:	0405902131	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Montana Treat	Well Design:	Montana Treat 1
Operator ID:	06020	Operator Name:	Mohawk Petroleum Corp.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902131		

BT1076
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102800**

OIL_GAS:

API #:	0405903554	Well #:	170
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 170
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903554		

BM1077
ESE **OIL_GAS** **CAOG17000101150**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902367	Well #:	1
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	O'Neill	Well Design:	O'Neill 1
Operator ID:	04183	Operator Name:	I. Rosenblum et al
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902367		

BS1078
SE **OIL_GAS** **CAOG17000103547**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920028	Well #:	31
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 31
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920028		

BR1079
ESE **OIL_GAS** **CAOG17000101849**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902219	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Timor	Well Design:	Timor 1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902219

BP1080
ESE **OIL_GAS** **CAOG17000101769**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901391	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gries	Well Design:	Gries 1
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901391		

BM1081
ESE **OIL_GAS** **CAOG17000104043**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902287	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 6
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902287		

BT1082
ENE **OIL_GAS** **CAOG17000103532**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900146	Well #:	303-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 303-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900146		

Map ID
Direction
Distance

Database EDR ID Number

BT1083
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103530**

OIL_GAS:

API #:	0405900144	Well #:	301
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 301
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900144		

BJ1084
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102496**

OIL_GAS:

API #:	0405901464	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 11
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901464		

BU1085
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104270**

OIL_GAS:

API #:	0405904115	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904115		

BJ1086
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103464**

OIL_GAS:

API #:	0405902383	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	C & D	Well Design:	C & D 3
Operator ID:	04454	Operator Name:	J. Paul Sievers
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902383		

BT1087
ENE **OIL_GAS** **CAOG17000102815**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903560	Well #:	178
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 178
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903560		

BM1088
ESE **OIL_GAS** **CAOG17000101775**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901685	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	B & H	Well Design:	B & H 1
Operator ID:	02049	Operator Name:	Dana Productions Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901685		

BH1089
SE **OIL_GAS** **CAOG17000103940**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904405	Well #:	517
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 517
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904405

BT1090
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103533**

OIL_GAS:

API #:	0405900147	Well #:	304
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 304
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900147		

BM1091
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103856**

OIL_GAS:

API #:	0405902286	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 5
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902286		

BN1092
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103272**

OIL_GAS:

API #:	0405903622	Well #:	244
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 244
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903622		

Map ID
Direction
Distance

Database EDR ID Number

BV1093
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102830**

OIL_GAS:

API #:	0405903954	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 18
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903954		

BT1094
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103534**

OIL_GAS:

API #:	0405900148	Well #:	305-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 305-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900148		

BV1095
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102777**

OIL_GAS:

API #:	0405903953	Well #:	17
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 17
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903953		

BS1096
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103606**

OIL_GAS:

API #:	0405904406	Well #:	342
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 342
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904406		

BH1097
SE **OIL_GAS** **CAOG17000103889**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904404	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 5
Operator ID:	T1200	Operator Name:	The Termo Company
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904404		

BJ1098
SE **OIL_GAS** **CAOG17000103700**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901474	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach Fee	Well Design:	Huntington Beach Fee 4
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901474		

BH1099
SE **OIL_GAS** **CAOG17000102102**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904523	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	T1200	Operator Name:	The Termo Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904523

BM1100
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103669**

OIL_GAS:

API #:	0405900091	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 4
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900091		

BT1101
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102764**

OIL_GAS:

API #:	0405903549	Well #:	164
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 164
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903549		

BS1102
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103938**

OIL_GAS:

API #:	0405904403	Well #:	515
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 515
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904403		

Map ID
Direction
Distance

Database EDR ID Number

BP1103
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103883**

OIL_GAS:

API #:	0405901837	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hamilton	Well Design:	Hamilton 5
Operator ID:	V1400	Operator Name:	Robert D. Vigue
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901837		

BR1104
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102357**

OIL_GAS:

API #:	0405903284	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	SMB	Well Design:	SMB 1
Operator ID:	M8300	Operator Name:	Mutz Oil Operator
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903284		

BT1105
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102802**

OIL_GAS:

API #:	0405903555	Well #:	171
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 171
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903555		

BR1106
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102694**

OIL_GAS:

API #:	0405902114	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lansdale	Well Design:	Lansdale 15
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902114		

BN1107
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102813**

OIL_GAS:

API #:	0405900431	Well #:	177
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 177
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900431		

BP1108
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101472**

OIL_GAS:

API #:	0405902042	Well #:	1
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	Kibler Hall	Well Design:	Kibler Hall 1
Operator ID:	P3000	Operator Name:	Petroprize
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902042		

BM1109
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102349**

OIL_GAS:

API #:	0405901561	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mize	Well Design:	Mize 1
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901561

BS1110
SE **OIL_GAS** **CAOG17000103707**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904037	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 4
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904037		

BP1111
ESE **OIL_GAS** **CAOG17000102901**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902020	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Don A. Leigh	Well Design:	2
Operator ID:	02195	Operator Name:	Don A. Leigh
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902020		

BR1112
ESE **OIL_GAS** **CAOG17000101831**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902282	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 1
Operator ID:	06935	Operator Name:	Prima Oil Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902282		

Map ID
Direction
Distance

Database EDR ID Number

BP1113
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102958**

OIL_GAS:

API #:	0405902381	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Shoreline Oil Co.		
Well Design:	2	Operator ID:	07835
Operator Name:	Shoreline Oil Co.	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902381		

BN1114
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102882**

OIL_GAS:

API #:	0405903576	Well #:	195
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 195
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903576		

BR1115
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102361**

OIL_GAS:

API #:	0405902193	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Swanson Fee	Well Design:	Swanson Fee 1
Operator ID:	09659	Operator Name:	W. E. Nicolai & Son
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902193		

BN1116
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103283**

OIL_GAS:

API #:	0405900137	Well #:	249
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 249
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900137		

BS1117
SE **OIL_GAS** **CAOG17000103988**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904156	Well #:	56
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 56
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904156		

BR1118
ESE **OIL_GAS** **CAOG17000102359**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902251	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Skeen	Well Design:	Skeen 1
Operator ID:	P0200	Operator Name:	Pacific Drilling Co
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902251		

BM1119
ESE **OIL_GAS** **CAOG17000102397**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901799	Well #:	1-X1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Turner	Well Design:	Turner 1-X1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901799

BM1120
ESE **OIL_GAS** **CAOG17000103096**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901562	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mize	Well Design:	Mize 2
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901562		

BR1121
ESE **OIL_GAS** **CAOG17000103642**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904144	Well #:	38
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 38
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904144		

BW1122
NE **OIL_GAS** **CAOG17000103176**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903593	Well #:	214
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 214
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903593		

Map ID
Direction
Distance

Database EDR ID Number

BN1123
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102812**

OIL_GAS:

API #:	0405903559	Well #:	176
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 176
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903559		

BM1124
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103224**

OIL_GAS:

API #:	0405904129	Well #:	23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 23
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904129		

BR1125
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101822**

OIL_GAS:

API #:	0405904694	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Thomas	Well Design:	Thomas 1
Operator ID:	09062	Operator Name:	Watkins and Tunstall
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904694		

BM1126
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104406**

OIL_GAS:

API #:	0405901934	Well #:	F-5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Huntington Signal Oil Company		
Well Design:	F-5	Operator ID:	H6700
Operator Name:	Huntington Signal Oil Company		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901934		

BR1127
ESE **OIL_GAS** **CAOG17000103596**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904140	Well #:	34
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 34
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904140		

BU1128
SE **OIL_GAS** **CAOG17000102423**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904116	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 10
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904116		

BU1129
SE **OIL_GAS** **CAOG17000102089**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904358	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Sandburg	Well Design:	Sandburg 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904358

BP1130
SE **OIL_GAS** **CAOG17000101766**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901551	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Stafford	Well Design:	Stafford 1
Operator ID:	02639	Operator Name:	Elmer J. Boeseke, Jr.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901551		

BO1131
NW **OIL_GAS** **CAOG17000103743**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903170	Well #:	4001
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4001
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903170		

BU1132
SE **OIL_GAS** **CAOG17000104121**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904522	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 7
Operator ID:	T1200	Operator Name:	The Termo Company
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904522		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BS1133
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102104**

OIL_GAS:

API #:	0405903388	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Crawford	Well Design:	Crawford 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903388		

BU1134
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104326**

OIL_GAS:

API #:	0405903281	Well #:	980-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 980-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903281		

BX1135
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103987**

OIL_GAS:

API #:	0405904528	Well #:	56
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 56
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904528		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BW1136
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102808**

OIL_GAS:

API #:	0405903557	Well #:	174
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 174
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903557		

BP1137
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103590**

OIL_GAS:

API #:	0405904092	Well #:	334-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 334-4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904092		

BY1138
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104004**

OIL_GAS:

API #:	0405903458	Well #:	58
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 58
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903458		

Map ID
Direction
Distance

Database EDR ID Number

BZ1139
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102338**

OIL_GAS:

API #:	0405901615	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bennett	Well Design:	Bennett 1
Operator ID:	06205	Operator Name:	Ned Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901615		

BO1140
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101546**

OIL_GAS:

API #:	0405903171	Well #:	4002A
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 426	Well Design:	State Prc 426 4002A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903171		

BY1141
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102877**

OIL_GAS:

API #:	0405903573	Well #:	192
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 192
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903573		

Map ID
Direction
Distance

Database EDR ID Number

BP1142
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103459**

OIL_GAS:

API #:	0405902222	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	W. K.	Well Design:	W. K. 3
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902222		

BW1143
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103838**

OIL_GAS:

API #:	0405903450	Well #:	49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 49
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903450		

BS1144
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103567**

OIL_GAS:

API #:	0405920033	Well #:	32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 32
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920033		

Map ID
Direction
Distance

Database EDR ID Number

BW1145
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102841**

OIL_GAS:

API #:	0405903563	Well #:	182
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 182
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903563		

BX1146
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102617**

OIL_GAS:

API #:	0405903516	Well #:	131
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 131
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903516		

CA1147
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103744**

OIL_GAS:

API #:	0405903172	Well #:	4003
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4003
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903172		

Map ID
Direction
Distance

Database EDR ID Number

BZ1148
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103648**

OIL_GAS:

API #:	0405904145	Well #:	39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 39
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904145		

BQ1149
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104249**

OIL_GAS:

API #:	0405903480	Well #:	89
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 89
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903480		

BP1150
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101773**

OIL_GAS:

API #:	0405901785	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gross	Well Design:	Gross 1
Operator ID:	H2200	Operator Name:	J. I. Hathaway, Opr.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901785		

BS1151
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102905**

OIL_GAS:

API #:	0405901659	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Nixon	Well Design:	Nixon 2
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901659		

BU1152
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103878**

OIL_GAS:

API #:	0405904740	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 5
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904740		

BR1153
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102366**

OIL_GAS:

API #:	0405901677	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Custom	Well Design:	Custom 1
Operator ID:	01943	Operator Name:	Custom Drilling Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901677		

BU1154
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103575**

OIL_GAS:

API #:	0405902090	Well #:	329
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 329
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05902090

BW1155
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103574**

OIL_GAS:

API #:	0405921404	Well #:	322
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 322
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921404		

BS1156
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102819**

OIL_GAS:

API #:	0405902727	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902727		

BU1157
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104327**

OIL_GAS:

API #:	0405903282	Well #:	980-2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 980-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903282		

Map ID
Direction
Distance

Database EDR ID Number

CB1158
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102948**

OIL_GAS:

API #:	0405904695	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Thomas	Well Design:	Thomas 2
Operator ID:	09062	Operator Name:	Watkins and Tunstall
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904695		

BP1159
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102080**

OIL_GAS:

API #:	0405901398	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Stott	Well Design:	Stott 1
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901398		

CA1160
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103745**

OIL_GAS:

API #:	0405903173	Well #:	4004
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4004
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903173		

Map ID
Direction
Distance

Database EDR ID Number

CC1161
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101771**

OIL_GAS:

API #:	0405902110	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Duke	Well Design:	Duke 1
Operator ID:	M5400	Operator Name:	Midge Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902110		

BP1162
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101840**

OIL_GAS:

API #:	0405902380	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Guaranty	Well Design:	Guaranty 1
Operator ID:	07834	Operator Name:	Shore Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902380		

CD1163
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102718**

OIL_GAS:

API #:	0405903537	Well #:	152
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 152
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903537		

BP1164
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101847**

OIL_GAS:

API #:	0405902104	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 1
Operator ID:	08870	Operator Name:	W. E. Medearis
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902104		

BR1165
ESE **OIL_GAS** **CAOG17000103290**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904131	Well #:	25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 25
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904131		

BS1166
SE **OIL_GAS** **CAOG17000102492**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902721	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 11
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902721		

CA1167
NW **OIL_GAS** **CAOG17000103746**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903174	Well #:	4005
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4005
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903174		

BW1168
NE **OIL_GAS** **CAOG17000102768**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903551	Well #:	166
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 166
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903551		

BR1169
ESE **OIL_GAS** **CAOG17000104080**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902191	Well #:	620-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by W. E. Nicolai & Son		
Well Design:	620-1	Operator ID:	09659
Operator Name:	W. E. Nicolai & Son	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902191		

BZ1170
ESE **OIL_GAS** **CAOG17000104200**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901962	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ring Petroleum Corp	Well Design:	Ring Petroleum Corp 8
Operator ID:	05507	Operator Name:	M & A Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901962		

Map ID
Direction
Distance

Database EDR ID Number

BP1171
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103458**

OIL_GAS:

API #:	0405904091	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Golden Eagle	Well Design:	Golden Eagle 3
Operator ID:	C9100	Operator Name:	Crown Central Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904091		

BQ1172
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103180**

OIL_GAS:

API #:	0405903595	Well #:	216
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 216
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903595		

CE1173
East
1/2 - 1 Mile

OIL_GAS **CAOG17000101811**

OIL_GAS:

API #:	0405903666	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-E Line Well	Well Design:	Huntington A-E Line Well 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903666		

BS1174
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102400**

OIL_GAS:

API #:	0405902720	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 10
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902720		

CA1175
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103747**

OIL_GAS:

API #:	0405903175	Well #:	4006
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4006
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903175		

BS1176
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101778**

OIL_GAS:

API #:	0405901658	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Nixon	Well Design:	Nixon 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901658		

BV1177
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103624**

OIL_GAS:

API #:	0405903969	Well #:	36
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 36
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903969		

BZ1178
ESE **OIL_GAS** **CAOG17000102952**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902174	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach	Well Design:	Huntington Beach 2
Operator ID:	04106	Operator Name:	Huber E. Myers
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902174		

BW1179
NE **OIL_GAS** **CAOG17000102728**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903543	Well #:	158
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 158
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903543		

BU1180
SE **OIL_GAS** **CAOG17000102083**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901797	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Superior	Well Design:	Superior 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901797		

Map ID
Direction
Distance

Database EDR ID Number

BZ1181
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101851**

OIL_GAS:

API #:	0405901781	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Doyle	Well Design:	Doyle 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901781		

BU1182
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104301**

OIL_GAS:

API #:	0405901873	Well #:	920-17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-17
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901873		

BV1183
East
1/2 - 1 Mile

OIL_GAS **CAOG17000104017**

OIL_GAS:

API #:	0405904102	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E-A Line Well	Well Design:	Huntington E-A Line Well 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904102		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BZ1184
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103095**

OIL_GAS:

API #:	0405902105	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 2
Operator ID:	08870	Operator Name:	W. E. Medearis
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902105		

BU1185
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101754**

OIL_GAS:

API #:	0405901472	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hbv	Well Design:	Hbv 1
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901472		

CC1186
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101772**

OIL_GAS:

API #:	0405901792	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lewis	Well Design:	Lewis 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901792		

Map ID
Direction
Distance

Database EDR ID Number

BR1187
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104042**

OIL_GAS:

API #:	0405902167	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 6
Operator ID:	03798	Operator Name:	Harold C. Morton and H. S. Kohlbush
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902167		

BU1188
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102550**

OIL_GAS:

API #:	0405901869	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 12
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901869		

CA1189
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102447**

OIL_GAS:

API #:	0405902745	Well #:	1008
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1008
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902745		

Map ID
Direction
Distance

Database EDR ID Number

BZ1190
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101858**

OIL_GAS:

API #:	0405902275	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 1
Operator ID:	03657	Operator Name:	H. H. Pierce & Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902275		

BP1191
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101843**

OIL_GAS:

API #:	0405902045	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Riddle	Well Design:	Riddle 1
Operator ID:	P3000	Operator Name:	Petroprize
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902045		

CA1192
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101227**

OIL_GAS:

API #:	0405903220	Well #:	4101A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4101A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903220		

Map ID
Direction
Distance

Database EDR ID Number

BZ1193
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102776**

OIL_GAS:

API #:	0405902413	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 17
Operator ID:	04696	Operator Name:	John G. Sedgwick
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902413		

BZ1194
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103852**

OIL_GAS:

API #:	0405901679	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by D and D Oil Company		
Well Design:	5	Operator ID:	01953
Operator Name:	D and D Oil Company	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901679		

BR1195
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101827**

OIL_GAS:

API #:	0405901800	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Turner Fee	Well Design:	Turner Fee 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901800		

BU1196
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102786**

OIL_GAS:

API #:	0405901713	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by D. D. Dunlap	Well Design:	17
Operator ID:	01977	Operator Name:	D. D. Dunlap
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901713		

BV1197
East **OIL_GAS** **CAOG17000103756**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903972	Well #:	41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 41
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903972		

BU1198
SE **OIL_GAS** **CAOG17000104305**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901902	Well #:	920-33
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-33
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901902		

CA1199
NW **OIL_GAS** **CAOG17000104648**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902677	Well #:	S-77-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-77-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902677		

BX1200
NE **OIL_GAS** **CAOG17000102810**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903558	Well #:	175
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 175
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903558		

BW1201
NE **OIL_GAS** **CAOG17000102587**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903514	Well #:	127
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 127
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903514		

BV1202
East **OIL_GAS** **CAOG17000103101**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903668	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E-A Line Well	Well Design:	Huntington E-A Line Well 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903668		

Map ID
Direction
Distance

Database EDR ID Number

CF1203
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103643**

OIL_GAS:

API #:	0405903439	Well #:	38
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 38
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903439		

BV1204
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103794**

OIL_GAS:

API #:	0405903973	Well #:	42
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 42
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903973		

CC1205
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102352**

OIL_GAS:

API #:	0405902041	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Jack & Jill	Well Design:	Jack & Jill 1
Operator ID:	P3000	Operator Name:	Petroprize
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902041		

BZ1206
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103672**

OIL_GAS:

API #:	0405901500	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Custom	Well Design:	Custom 4
Operator ID:	01943	Operator Name:	Custom Drilling Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901500		

CA1207
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103751**

OIL_GAS:

API #:	0405903214	Well #:	4010
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4010
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903214		

BV1208
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103890**

OIL_GAS:

API #:	0405904101	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E-A Line Well	Well Design:	Huntington E-A Line Well 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904101		

BU1209
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102090**

OIL_GAS:

API #:	0405902208	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Keeler	Well Design:	Keeler 1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902208

CG1210
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102340**

OIL_GAS:

API #:	0405901774	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Campbell	Well Design:	Campbell 1
Operator ID:	03172	Operator Name:	G & F Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901774		

BU1211
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104335**

OIL_GAS:

API #:	0405901476	Well #:	991
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 991
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901476		

BV1212
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103825**

OIL_GAS:

API #:	0405904478	Well #:	47
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 47
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904478		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BV1213
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103517**

OIL_GAS:

API #:	0405903963	Well #:	30
Well Type:	Multi-Purpose	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 30
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903963		

BU1214
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104306**

OIL_GAS:

API #:	0405901896	Well #:	920-5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-5
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901896		

BV1215
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103288**

OIL_GAS:

API #:	0405900172	Well #:	25
Well Type:	Steamflood	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 25
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900172		

Map ID
Direction
Distance

Database EDR ID Number

CC1216
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103461**

OIL_GAS:

API #:	0405901473	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach Fee	Well Design:	Huntington Beach Fee 3
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901473		

CH1217
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102079**

OIL_GAS:

API #:	0405904391	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Jones	Well Design:	Jones 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904391		

CD1218
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104086**

OIL_GAS:

API #:	0405903461	Well #:	64
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 64
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903461		

CC1219
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102422**

OIL_GAS:

API #:	0405901868	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 10
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901868		

CA1220
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101228**

OIL_GAS:

API #:	0405903221	Well #:	4102A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4102A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903221		

BS1221
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103843**

OIL_GAS:

API #:	0405904038	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904038		

BZ1222
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101823**

OIL_GAS:

API #:	0405904340	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bundy	Well Design:	Bundy 1
Operator ID:	08467	Operator Name:	Tim Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904340

BV1223
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103837**

OIL_GAS:

API #:	0405904480	Well #:	49
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 49
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904480		

CB1224
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102946**

OIL_GAS:

API #:	0405920027	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kelly	Well Design:	Kelly 2
Operator ID:	06328	Operator Name:	Nugget Gas & Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920027		

CH1225
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103515**

OIL_GAS:

API #:	0405902713	Well #:	3-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 3-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902713		

Map ID
Direction
Distance

Database EDR ID Number

CC1226
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102341**

OIL_GAS:

API #:	0405901778	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Austin Fee	Well Design:	Austin Fee 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901778		

BV1227
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103338**

OIL_GAS:

API #:	0405900173	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 27
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900173		

CI1228
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103184**

OIL_GAS:

API #:	0405903597	Well #:	218
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 218
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903597		

CC1229
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102343**

OIL_GAS:

API #:	0405904756	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Riddle	Well Design:	Riddle 1
Operator ID:	07554	Operator Name:	S. S. Wold
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904756		

CB1230
ESE **OIL_GAS** **CAOG17000102329**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901301	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Kelly	Well Design:	Kelly 1
Operator ID:	06328	Operator Name:	Nugget Gas & Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901301		

CC1231
ESE **OIL_GAS** **CAOG17000102953**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901786	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gross	Well Design:	Gross 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901786		

CA1232
NW **OIL_GAS** **CAOG17000103766**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903223	Well #:	4104
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4104
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903223

BY1233
NNE **OIL_GAS** **CAOG17000102660**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903525	Well #:	140
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 140
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903525		

BZ1234
ESE **OIL_GAS** **CAOG17000102821**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901645	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 18
Operator ID:	C6500	Operator Name:	Coast Supply Company Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901645		

BV1235
East **OIL_GAS** **CAOG17000103258**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903960	Well #:	24
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 24
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903960		

Map ID
Direction
Distance

Database EDR ID Number

CA1236
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102458**

OIL_GAS:

API #:	0405902751	Well #:	1014
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1014
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902751		

BV1237
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103562**

OIL_GAS:

API #:	0405903965	Well #:	32
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 32
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903965		

BZ1238
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102752**

OIL_GAS:

API #:	0405901832	Well #:	16
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 16
Operator ID:	H0925	Operator Name:	Henry Lynn Hall
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901832		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CA1239
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102441**

OIL_GAS:

API #:	0405902738	Well #:	1001
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1001
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902738		

CI1240
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104247**

OIL_GAS:

API #:	0405903479	Well #:	88
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 88
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903479		

CB1241
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102947**

OIL_GAS:

API #:	0405901678	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by D and D Oil Company		
Well Design:	2	Operator ID:	01953
Operator Name:	D and D Oil Company	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901678		

Map ID
Direction
Distance

Database EDR ID Number

BZ1242
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101854**

OIL_GAS:

API #:	0405901959	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Bristol	Well Design:	Bristol 1
Operator ID:	05500	Operator Name:	Lyndon & DeSpain
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901959		

BV1243
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103833**

OIL_GAS:

API #:	0405904479	Well #:	48
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 48
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904479		

BZ1244
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102790**

OIL_GAS:

API #:	0405904123	Well #:	17
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 17
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904123		

CD1245
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102573**

OIL_GAS:

API #:	0405900132	Well #:	121
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 121
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900132		

CA1246
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101229**

OIL_GAS:

API #:	0405903225	Well #:	4106A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4106A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903225		

CF1247
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102620**

OIL_GAS:

API #:	0405903517	Well #:	132
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 132
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903517		

BV1248
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103374**

OIL_GAS:

API #:	0405903962	Well #:	29
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 29
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903962

CD1249
NNE **OIL_GAS** **CAOG17000104180**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903471	Well #:	77
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 77
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903471		

CJ1250
ESE **OIL_GAS** **CAOG17000103618**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904141	Well #:	35
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 35
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904141		

CA1251
NW **OIL_GAS** **CAOG17000101547**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903232	Well #:	4108
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 426	Well Design:	State Prc 426 4108
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903232		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BY1252
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102591**

OIL_GAS:

API #:	0405901914	Well #:	129
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 129
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901914		

CH1253
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103123**

OIL_GAS:

API #:	0405902729	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902729		

BZ1254
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103086**

OIL_GAS:

API #:	0405901812	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	William & Ruth Gilmore	Well Design:	William & Ruth Gilmore 2
Operator ID:	09219	Operator Name:	William & Ruth Gilmore
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901812		

Map ID
Direction
Distance

Database EDR ID Number

BZ1255
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101834**

OIL_GAS:

API #:	0405901811	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	William & Ruth Gilmore	Well Design:	William & Ruth Gilmore 1
Operator ID:	09219	Operator Name:	William & Ruth Gilmore
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901811		

CE1256
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103920**

OIL_GAS:

API #:	0405903451	Well #:	50
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 50
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903451		

CK1257
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102542**

OIL_GAS:

API #:	0405903951	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 12
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903951		

CI1258
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102843**

OIL_GAS:

API #:	0405903564	Well #:	183
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 183
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903564		

CH1259
SE **OIL_GAS** **CAOG17000102088**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902064	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Scoc	Well Design:	Scoc 1
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902064		

CH1260
SE **OIL_GAS** **CAOG17000104337**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902066	Well #:	992-4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 992-4
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902066		

CK1261
East **OIL_GAS** **CAOG17000103619**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903968	Well #:	35
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 35
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903968

CA1262
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103770**

OIL_GAS:

API #:	0405903234	Well #:	4110A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4110A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903234		

BZ1263
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102365**

OIL_GAS:

API #:	0405901810	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dike	Well Design:	Dike 1
Operator ID:	09236	Operator Name:	William Gilmore
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901810		

CH1264
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104015**

OIL_GAS:

API #:	0405901897	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 6
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901897		

Map ID
Direction
Distance

Database EDR ID Number

CI1265
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104093**

OIL_GAS:

API #:	0405903463	Well #:	66
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 66
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903463		

CC1266
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104207**

OIL_GAS:

API #:	0405902288	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Golden Eagle	Well Design:	Golden Eagle 8
Operator ID:	06947	Operator Name:	Progressive Oil Co.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902288		

CH1267
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104307**

OIL_GAS:

API #:	0405901899	Well #:	920-6B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-6B
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901899		

CH1268
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101764**

OIL_GAS:

API #:	0405904105	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Fee	Well Design:	Huntington Fee 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904105		

CC1269
SE **OIL_GAS** **CAOG17000102348**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902095	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	S & D	Well Design:	S & D 1
Operator ID:	05840	Operator Name:	McVicar-Rood
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902095		

CA1270
NW **OIL_GAS** **CAOG17000102448**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902746	Well #:	1009
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1009
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902746		

1271
NNW **OIL_GAS** **CAOG17000101417**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902661	Well #:	S-54
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	South Bolsa	Well Design:	South Bolsa S-54
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902661		

CH1272
SE **OIL_GAS** **CAOG17000102867**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902728	Well #:	19
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 19
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902728		

BY1273
NNE **OIL_GAS** **CAOG17000102773**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900134	Well #:	168
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 168
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900134		

CC1274
SE **OIL_GAS** **CAOG17000101845**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901330	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Armor	Well Design:	Armor 1
Operator ID:	00440	Operator Name:	Armor Petroleum Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901330		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CL1275
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102623**

OIL_GAS:

API #:	0405903518	Well #:	133
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 133
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903518		

CA1276
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101487**

OIL_GAS:

API #:	0405902739	Well #:	1002
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 163	Well Design:	State Prc 163 1002
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902739		

CC1277
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101774**

OIL_GAS:

API #:	0405902130	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mojave-Weide	Well Design:	Mojave-Weide 1
Operator ID:	06026	Operator Name:	Mojave Petroleum Co.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902130		

Map ID
Direction
Distance

Database EDR ID Number

CH1278
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101730**

OIL_GAS:

API #:	0405920567	Well #:	S901
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S901
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920567		

CC1279
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102960**

OIL_GAS:

API #:	0405901331	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Armor	Well Design:	Armor 2
Operator ID:	00440	Operator Name:	Armor Petroleum Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901331		

CJ1280
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102499**

OIL_GAS:

API #:	0405901829	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 11
Operator ID:	02004	Operator Name:	D. M. Hollingsworth
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901829		

Map ID
Direction
Distance

Database EDR ID Number

CH1281
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103463**

OIL_GAS:

API #:	0405901894	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 3
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901894		

BZ1282
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104112**

OIL_GAS:

API #:	0405902013	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 7
Operator ID:	05240	Operator Name:	LCT Equipment Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902013		

CH1283
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101643**

OIL_GAS:

API #:	0405920633	Well #:	90
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 90
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920633		

Map ID
Direction
Distance

Database EDR ID Number

CA1284
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101230**

OIL_GAS:

API #:	0405903236	Well #:	4112
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4112
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903236		

CC1285
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102347**

OIL_GAS:

API #:	0405902292	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Robinson	Well Design:	Robinson 1
Operator ID:	W0900	Operator Name:	Weir Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902292		

CC1286
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102360**

OIL_GAS:

API #:	0405901397	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Richardson	Well Design:	Richardson 1
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901397		

Map ID
Direction
Distance

Database EDR ID Number

CH1287
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104678**

OIL_GAS:

API #:	0405920599	Well #:	S903
Well Type:	Injection	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S903
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920599		

CH1288
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103704**

OIL_GAS:

API #:	0405901895	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901895		

CH1289
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104304**

OIL_GAS:

API #:	0405901901	Well #:	920-20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-20
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901901		

Map ID
Direction
Distance

Database EDR ID Number

CM1290
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104589**

OIL_GAS:

API #:	0405902649	Well #:	S-23-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-23-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902649		

CI1291
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103237**

OIL_GAS:

API #:	0405903611	Well #:	232
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 232
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903611		

CG1292
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102362**

OIL_GAS:

API #:	0405904710	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Margona	Well Design:	Margona 1
Operator ID:	W0900	Operator Name:	Weir Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904710		

Map ID
Direction
Distance

Database EDR ID Number

CC1293
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102356**

OIL_GAS:

API #:	0405901585	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Teague	Well Design:	Teague 1
Operator ID:	03172	Operator Name:	G & F Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901585		

CH1294
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101564**

OIL_GAS:

API #:	0405920634	Well #:	50
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 50
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920634		

CA1295
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103772**

OIL_GAS:

API #:	0405903238	Well #:	4114B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4114B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903238		

Map ID
Direction
Distance

Database EDR ID Number

CH1296
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103750**

OIL_GAS:

API #:	0405901871	Well #:	401
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 401
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901871		

CH1297
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101430**

OIL_GAS:

API #:	0405920601	Well #:	S904
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S904
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920601		

CC1298
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102353**

OIL_GAS:

API #:	0405904099	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Weide	Well Design:	Weide 1
Operator ID:	C9100	Operator Name:	Crown Central Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904099		

Map ID
Direction
Distance

Database EDR ID Number

BZ1299
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102333**

OIL_GAS:

API #:	0405903291	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by J.A. Smith	Well Design:	1
Operator ID:	04301	Operator Name:	J.A. Smith
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903291		

CH1300
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104336**

OIL_GAS:

API #:	0405902065	Well #:	992-3A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 992-3A
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902065		

CH1301
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102078**

OIL_GAS:

API #:	0405904506	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State	Well Design:	State 1
Operator ID:	08168	Operator Name:	Surf Assoc., Inc.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904506		

CH1302
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101639**

OIL_GAS:

API #:	0405920632	Well #:	80
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	State Prc 91	Well Design:	State Prc 91 80
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920632		

CH1303
SE **OIL_GAS** **CAOG17000104302**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901874	Well #:	920-18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-18
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901874		

CA1304
NW **OIL_GAS** **CAOG17000101231**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903240	Well #:	4116A
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4116A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903240		

BZ1305
ESE **OIL_GAS** **CAOG17000103696**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904707	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Weir	Well Design:	Weir 4
Operator ID:	04149	Operator Name:	Huntington Beach Assoc.
Field Name:	Huntington Beach	Area Name:	Any Area

Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904707		

CJ1306
ESE **OIL_GAS** **CAOG17000103099**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902184	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Houston	Well Design:	Houston 2
Operator ID:	02095	Operator Name:	Deane Newenham
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902184		

CH1307
SE **OIL_GAS** **CAOG17000104683**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920624	Well #:	S909
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S909
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920624		

CG1308
ESE **OIL_GAS** **CAOG17000102364**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901783	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Drew Fee	Well Design:	Drew Fee 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901783		

Map ID
Direction
Distance

Database EDR ID Number

CG1309
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101857**

OIL_GAS:

API #:	0405902076	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Robinson	Well Design:	Robinson 1
Operator ID:	05782	Operator Name:	McCallen & Derigo
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902076		

CG1310
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101835**

OIL_GAS:

API #:	0405901782	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Drew	Well Design:	Drew 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901782		

CC1311
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102959**

OIL_GAS:

API #:	0405903306	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Speik	Well Design:	Speik 2
Operator ID:	02722	Operator Name:	Estate of Frederick A. Speik
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903306		

CJ1312
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102487**

OIL_GAS:

API #:	0405902262	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Painted Hills Oil Co.		
Well Design:	11	Operator ID:	06621
Operator Name:	Painted Hills Oil Co.	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902262		

CM1313
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104586**

OIL_GAS:

API #:	0405902647	Well #:	S-22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-22
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902647		

CH1314
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101429**

OIL_GAS:

API #:	0405920568	Well #:	S902
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S902
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920568		

CA1315
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102454**

OIL_GAS:

API #:	0405902747	Well #:	1010
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1010
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore

Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902747		

CG1316
ESE **OIL_GAS** **CAOG17000101856**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904748	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Hudson D. Wilcox	Well Design:	1
Operator ID:	04114	Operator Name:	Hudson D. Wilcox
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904748		

CH1317
SE **OIL_GAS** **CAOG17000104680**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920602	Well #:	S906
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S906
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920602		

CA1318
NW **OIL_GAS** **CAOG17000102442**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902740	Well #:	1003
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1003
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902740		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CG1319
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103192**

OIL_GAS:

API #:	0405904128	Well #:	22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 22
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904128		

CH1320
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104682**

OIL_GAS:

API #:	0405920612	Well #:	S908
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S908
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920612		

CH1321
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103660**

OIL_GAS:

API #:	0405902954	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Two & One	Well Design:	Two & One 4
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902954		

Map ID
Direction
Distance

Database EDR ID Number

CH1322
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104679**

OIL_GAS:

API #:	0405920610	Well #:	S905
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S905
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920610		

CA1323
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103773**

OIL_GAS:

API #:	0405903242	Well #:	4118
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4118
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903242		

CC1324
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101844**

OIL_GAS:

API #:	0405902126	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Smith	Well Design:	Smith 1
Operator ID:	05992	Operator Name:	Minnesota Oil Co.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902126		

Map ID
Direction
Distance

Database EDR ID Number

CH1325
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102438**

OIL_GAS:

API #:	0405920642	Well #:	100
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 100
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920642		

CL1326
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103737**

OIL_GAS:

API #:	0405903441	Well #:	40
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 40
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903441		

CH1327
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101768**

OIL_GAS:

API #:	0405902382	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by South Coast Oil Corporation		
Well Design:	1	Operator ID:	S4563
Operator Name:	South Coast Oil Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902382		

Map ID
Direction
Distance

Database EDR ID Number

CN1328
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102332**

OIL_GAS:

API #:	0405901784	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gibson	Well Design:	Gibson 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901784		

CH1329
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104684**

OIL_GAS:

API #:	0405920637	Well #:	S910
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S910
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920637		

CJ1330
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102695**

OIL_GAS:

API #:	0405901831	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 15
Operator ID:	H0925	Operator Name:	Henry Lynn Hall
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901831		

Map ID
Direction
Distance

Database EDR ID Number

CM1331
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104701**

OIL_GAS:

API #:	0405920485	Well #:	SF-4
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa SF-4
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920485		

CH1332
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104681**

OIL_GAS:

API #:	0405920611	Well #:	S907
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu S907
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920611		

CO1333
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103636**

OIL_GAS:

API #:	0405904143	Well #:	37
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 37
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904143		

Map ID
Direction
Distance

Database EDR ID Number

CP1334
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104183**

OIL_GAS:

API #:	0405903472	Well #:	78
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 78
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903472		

CQ1335
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102583**

OIL_GAS:

API #:	0405900953	Well #:	125
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 125
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900953		

CD1336
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102762**

OIL_GAS:

API #:	0405903548	Well #:	163
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 163
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903548		

CM1337
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104600**

OIL_GAS:

API #:	0405902652	Well #:	S-32-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-32-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902652		

CR1338
NE **OIL_GAS** **CAOG17000104152**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903465	Well #:	70
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 70
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903465		

CQ1339
NNE **OIL_GAS** **CAOG17000103265**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903619	Well #:	240
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 240
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903619		

CG1340
ESE **OIL_GAS** **CAOG17000104019**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901394	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington	Well Design:	Huntington 6
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901394

CP1341
NNE **OIL_GAS** **CAOG17000103177**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903594	Well #:	215
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 215
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903594		

CS1342
SE **OIL_GAS** **CAOG17000102351**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901553	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lions Oil Fee	Well Design:	Lions Oil Fee 1
Operator ID:	L1900	Operator Name:	Leonard O. Lindborg
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901553		

CH1343
SE **OIL_GAS** **CAOG17000103608**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904039	Well #:	343-6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 343-6
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904039		

Map ID
Direction
Distance

Database EDR ID Number

CJ1344
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103102**

OIL_GAS:

API #:	0405902116	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by H. E. Miller	Well Design:	2
Operator ID:	03639	Operator Name:	H. E. Miller
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902116		

CH1345
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104331**

OIL_GAS:

API #:	0405902071	Well #:	988
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 988
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902071		

CS1346
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104206**

OIL_GAS:

API #:	0405901864	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 8
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901864		

CJ1347
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101820**

OIL_GAS:

API #:	0405901827	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by H & M Oil Well	Well Design:	1
Operator ID:	03608	Operator Name:	H & M Oil Well
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901827		

CT1348
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102443**

OIL_GAS:

API #:	0405902741	Well #:	1004
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1004
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902741		

CS1349
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104164**

OIL_GAS:

API #:	0405902272	Well #:	72
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Scoc	Well Design:	Scoc 72
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902272		

CM1350
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104587**

OIL_GAS:

API #:	0405902648	Well #:	S-22-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-22-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902648		

CN1351
ESE **OIL_GAS** **CAOG17000101828**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902173	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach	Well Design:	Huntington Beach 1
Operator ID:	04106	Operator Name:	Huber E. Myers
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902173		

CS1352
SE **OIL_GAS** **CAOG17000101848**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904399	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mclachlen	Well Design:	Mclachlen 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904399		

CS1353
SE **OIL_GAS** **CAOG17000103898**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902293	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	West Coast	Well Design:	West Coast 5
Operator ID:	W0900	Operator Name:	Weir Oil Co., Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902293		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CS1354
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101167**

OIL_GAS:

API #:	0405901870	Well #:	14
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	H.B.	Well Design:	H.B. 14
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901870		

CH1355
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101767**

OIL_GAS:

API #:	0405901661	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Stever	Well Design:	Stever 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901661		

CJ1356
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103452**

OIL_GAS:

API #:	0405904709	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Weir	Well Design:	Weir 3
Operator ID:	04149	Operator Name:	Huntington Beach Assoc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904709		

Map ID
Direction
Distance

Database EDR ID Number

CH1357
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103593**

OIL_GAS:

API #:	0405902349	Well #:	337
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 337
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902349		

CS1358
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101852**

OIL_GAS:

API #:	0405901392	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington	Well Design:	Huntington 1
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901392		

CQ1359
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104246**

OIL_GAS:

API #:	0405900129	Well #:	87
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 87
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900129		

CG1360
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104506**

OIL_GAS:

API #:	0405901617	Well #:	O-2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Nina Bell	Well Design:	Nina Bell O-2
Operator ID:	C1800	Operator Name:	Estate of George Cantor
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901617		

CJ1361
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102555**

OIL_GAS:

API #:	0405901830	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 12
Operator ID:	02004	Operator Name:	D. M. Hollingsworth
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901830		

CM1362
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104599**

OIL_GAS:

API #:	0405902651	Well #:	S-32
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-32
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902651		

CG1363
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102552**

OIL_GAS:

API #:	0405901559	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 12
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901559		

CH1364
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103968**

OIL_GAS:

API #:	0405900189	Well #:	54
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 54
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900189		

CU1365
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104104**

OIL_GAS:

API #:	0405903888	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 7
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903888		

CR1366
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102576**

OIL_GAS:

API #:	0405903510	Well #:	122
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 122
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903510		

Map ID
Direction
Distance

Database EDR ID Number

CT1367
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101241**

OIL_GAS:

API #:	0405903272	Well #:	4148
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4148
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903272		

CJ1368
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103100**

OIL_GAS:

API #:	0405901487	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Roy J. Berryhill and Deane Newenham		
Well Design:	2	Operator ID:	07446
Operator Name:	Roy J. Berryhill and Deane Newenham		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901487		

CG1369
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104507**

OIL_GAS:

API #:	0405901618	Well #:	O-3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Nina Bell	Well Design:	Nina Bell O-3
Operator ID:	C1800	Operator Name:	Estate of George Cantor
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901618		

Map ID
Direction
Distance

Database EDR ID Number

CO1370
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102943**

OIL_GAS:

API #:	0405901801	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Turner Fee	Well Design:	Turner Fee 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901801		

CO1371
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103104**

OIL_GAS:

API #:	0405902417	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Shaw Oil	Well Design:	Shaw Oil 2
Operator ID:	07811	Operator Name:	Shaw Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902417		

CP1372
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103297**

OIL_GAS:

API #:	0405903628	Well #:	251
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 251
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903628		

CV1373
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103321**

OIL_GAS:

API #:	0405903637	Well #:	261
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 261
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903637		

CG1374
ESE **OIL_GAS** **CAOG17000102370**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901793	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Machris	Well Design:	Machris 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901793		

CR1375
NE **OIL_GAS** **CAOG17000102634**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903524	Well #:	139
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 139
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903524		

CJ1376
ESE **OIL_GAS** **CAOG17000102316**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901518	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mauk	Well Design:	Mauk 1
Operator ID:	01883	Operator Name:	Cozi Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901518

CN1377
ESE **OIL_GAS** **CAOG17000102334**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904317	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Schroeter	Well Design:	Schroeter 1
Operator ID:	00003	Operator Name:	3-J Oil Operators
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904317		

CN1378
ESE **OIL_GAS** **CAOG17000102605**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901560	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 13
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901560		

CT1379
NW **OIL_GAS** **CAOG17000102444**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902742	Well #:	1005
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1005
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902742		

Map ID
Direction
Distance

Database EDR ID Number

CN1380
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101830**

OIL_GAS:

API #:	0405902016	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dubois	Well Design:	Dubois 1
Operator ID:	03210	Operator Name:	G. J. Landers
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902016		

CN1381
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101812**

OIL_GAS:

API #:	0405901625	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Dubois	Well Design:	Dubois 1
Operator ID:	03927	Operator Name:	Henry Cartan
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901625		

CW1382
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103262**

OIL_GAS:

API #:	0405902733	Well #:	24-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 24-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902733		

Map ID
Direction
Distance

Database EDR ID Number

CX1383
East **OIL_GAS** **CAOG17000102385**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903942	Well #:	1-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 1-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903942		

CS1384
SE **OIL_GAS** **CAOG17000104273**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901866	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H.B.	Well Design:	H.B. 9
Operator ID:	A0610	Operator Name:	Aera Energy LLC
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901866		

CS1385
SE **OIL_GAS** **CAOG17000104202**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902068	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Honeyman	Well Design:	Honeyman 8
Operator ID:	04391	Operator Name:	J. H. Marion
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902068		

CV1386
NE **OIL_GAS** **CAOG17000104165**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903467	Well #:	72
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 72
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903467		

CY1387
ENE **OIL_GAS** **CAOG17000103389**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903663	Well #:	298
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 298
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903663		

CY1388
ENE **OIL_GAS** **CAOG17000102581**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903512	Well #:	124
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 124
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903512		

CS1389
SE **OIL_GAS** **CAOG17000104286**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901867	Well #:	9-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 920	Well Design:	State Prc 920 9-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901867

CS1390
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102485**

OIL_GAS:

API #:	0405901504	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Compton Oil Co.	Well Design:	11
Operator ID:	01796	Operator Name:	Compton Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901504		

CJ1391
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104115**

OIL_GAS:

API #:	0405900808	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lansdale	Well Design:	Lansdale 7
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900808		

CS1392
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102553**

OIL_GAS:

API #:	0405901505	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Compton Oil Co.	Well Design:	12
Operator ID:	01796	Operator Name:	Compton Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901505		

Map ID
Direction
Distance

Database EDR ID Number

CW1393
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103227**

OIL_GAS:

API #:	0405902732	Well #:	23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 23
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902732		

CN1394
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102328**

OIL_GAS:

API #:	0405901821	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Albert	Well Design:	Albert 1
Operator ID:	04149	Operator Name:	Huntington Beach Assoc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901821		

CX1395
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102642**

OIL_GAS:

API #:	0405903952	Well #:	14
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 14
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903952		

Map ID
Direction
Distance

Database EDR ID Number

CS1396
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102358**

OIL_GAS:

API #:	0405903285	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Smith	Well Design:	Smith 1
Operator ID:	C1800	Operator Name:	Estate of George Cantor
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903285		

CV1397
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102712**

OIL_GAS:

API #:	0405903536	Well #:	151
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 151
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903536		

CN1398
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102327**

OIL_GAS:

API #:	0405904516	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Harris	Well Design:	Harris 1
Operator ID:	04149	Operator Name:	Huntington Beach Assoc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904516		

CX1399
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102405**

OIL_GAS:

API #:	0405903950	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 10
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903950		

CW1400
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102084**

OIL_GAS:

API #:	0405904690	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Clark	Well Design:	Clark 1
Operator ID:	07021	Operator Name:	R. B. Watkins
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904690		

CQ1401
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103333**

OIL_GAS:

API #:	0405903643	Well #:	268
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 268
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903643		

CN1402
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101819**

OIL_GAS:

API #:	0405904515	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington	Well Design:	Huntington 1
Operator ID:	09567	Operator Name:	Floyd R. Ten Eyck
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904515

CS1403
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103085**

OIL_GAS:

API #:	0405901619	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Smith	Well Design:	Smith 2
Operator ID:	C1800	Operator Name:	Estate of George Cantor
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901619		

CU1404
North
1/2 - 1 Mile

OIL_GAS **CAOG17000102911**

OIL_GAS:

API #:	0405903883	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903883		

CZ1405
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103113**

OIL_GAS:

API #:	0405904389	Well #:	2-1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2-1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904389		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CS1406
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104308**

OIL_GAS:

API #:	0405901863	Well #:	920-7A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 920-7A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901863		

CW1407
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103190**

OIL_GAS:

API #:	0405902731	Well #:	22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 22
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902731		

DA1408
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000104099**

OIL_GAS:

API #:	0405903464	Well #:	68
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 68
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903464		

Map ID
Direction
Distance

Database EDR ID Number

1409
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000104179**

OIL_GAS:

API #:	0405903470	Well #:	76
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 76
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903470		

CV1410
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102536**

OIL_GAS:

API #:	0405903508	Well #:	119
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 119
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903508		

CN1411
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101792**

OIL_GAS:

API #:	0405901841	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Sha	Well Design:	Sha 1
Operator ID:	07905	Operator Name:	Slim Harrell Assoc., Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901841		

CT1412
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102445**

OIL_GAS:

API #:	0405902743	Well #:	1006
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1006
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902743		

CQ1413
NNE **OIL_GAS** **CAOG17000103331**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903641	Well #:	266
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 266
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903641		

CS1414
SE **OIL_GAS** **CAOG17000103588**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902094	Well #:	332
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 332
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902094		

CZ1415
ESE **OIL_GAS** **CAOG17000101824**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902138	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Texaco	Well Design:	Texaco 1
Operator ID:	M8100	Operator Name:	Morton and Dolley
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902138		

CZ1416
ESE **OIL_GAS** **CAOG17000102408**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901555	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 10
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901555		

DB1417
NNE **OIL_GAS** **CAOG17000103167**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903589	Well #:	210
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 210
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903589		

CY1418
ENE **OIL_GAS** **CAOG17000102770**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903552	Well #:	167
Well Type:	Injection	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 167
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903552		

Map ID
Direction
Distance

Database EDR ID Number

DC1419
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102944**

OIL_GAS:

API #:	0405901587	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Devon Shore	Well Design:	Devon Shore 2
Operator ID:	01182	Operator Name:	Cadillac Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901587		

CP1420
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102590**

OIL_GAS:

API #:	0405903515	Well #:	128
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 128
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903515		

CO1421
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101795**

OIL_GAS:

API #:	0405900957	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	C & B	Well Design:	C & B 1
Operator ID:	04298	Operator Name:	J. A. Lavender
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900957		

DD1422
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103390**

OIL_GAS:

API #:	0405903664	Well #:	299
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 299
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903664		

CS1423
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102832**

OIL_GAS:

API #:	0405904124	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 18
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904124		

CW1424
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102082**

OIL_GAS:

API #:	0405901579	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Burton-Davis Comm.	Well Design:	Burton-Davis Comm. 1
Operator ID:	00973	Operator Name:	Bunting & Petrie
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901579		

CQ1425
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103351**

OIL_GAS:

API #:	0405903649	Well #:	276
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 276
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903649

CP1426
NNE **OIL_GAS** **CAOG17000102627**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903520	Well #:	135
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 135
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903520		

CQ1427
NNE **OIL_GAS** **CAOG17000102389**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903665	Well #:	1-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-C Line Well	Well Design:	Huntington A-C Line Well 1-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903665		

CS1428
SE **OIL_GAS** **CAOG17000103454**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901620	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Smith	Well Design:	Smith 3
Operator ID:	C1800	Operator Name:	Estate of George Cantor
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901620		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CU1429
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104584**

OIL_GAS:

API #:	0405902645	Well #:	S-21-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-21-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902645		

CQ1430
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103370**

OIL_GAS:

API #:	0405903657	Well #:	287
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 287
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903657		

CQ1431
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103367**

OIL_GAS:

API #:	0405903654	Well #:	283-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 283-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903654		

Map ID
Direction
Distance

Database EDR ID Number

DD1432
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103191**

OIL_GAS:

API #:	0405903937	Well #:	22
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington D	Well Design:	Huntington D 22
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903937		

CY1433
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000102767**

OIL_GAS:

API #:	0405903550	Well #:	165
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 165
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903550		

DD1434
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103339**

OIL_GAS:

API #:	0405900164	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington D	Well Design:	Huntington D 27
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900164		

CN1435
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101790**

OIL_GAS:

API #:	0405901961	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Older	Well Design:	Older 1
Operator ID:	05507	Operator Name:	M & A Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901961		

CZ1436
ESE **OIL_GAS** **CAOG17000103895**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901393	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington	Well Design:	Huntington 5
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901393		

CY1437
ENE **OIL_GAS** **CAOG17000102888**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903579	Well #:	198
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 198
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903579		

DE1438
North **OIL_GAS** **CAOG17000104585**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902646	Well #:	S-21-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-21-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902646

CO1439
ESE **OIL_GAS** **CAOG17000101801**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901791	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	J.M.J.P.	Well Design:	J.M.J.P. 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901791		

CS1440
SE **OIL_GAS** **CAOG17000101855**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902151	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Milroy Oil Co. Inc.		
Well Design:	1	Operator ID:	05980
Operator Name:	Milroy Oil Co. Inc.	Field Name:	Huntington Beach
Area Name:	South Offshore	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	Y	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902151		

DF1441
NNW **OIL_GAS** **CAOG17000104618**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902660	Well #:	S-53-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-53-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902660		

Map ID
Direction
Distance

Database EDR ID Number

CZ1442
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102501**

OIL_GAS:

API #:	0405901556	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pcv	Well Design:	Pcv 11
Operator ID:	E2700		
Operator Name:	Energy Development of California, Inc.		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901556		

CU1443
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104588**

OIL_GAS:

API #:	0405902963	Well #:	S-22-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-22-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902963		

DD1444
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103961**

OIL_GAS:

API #:	0405903454	Well #:	53
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 53
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903454		

Map ID
Direction
Distance

Database EDR ID Number

CY1445
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103346**

OIL_GAS:

API #:	0405903645	Well #:	270
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 270
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903645		

CT1446
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102446**

OIL_GAS:

API #:	0405902744	Well #:	1007
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1007
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902744		

DC1447
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102304**

OIL_GAS:

API #:	0405901681	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	D & S	Well Design:	D & S 1
Operator ID:	01957	Operator Name:	D & S Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901681		

Map ID
Direction
Distance

Database EDR ID Number

CV1448
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103274**

OIL_GAS:

API #:	0405903623	Well #:	245
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 245
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903623		

DD1449
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103449**

OIL_GAS:

API #:	0405903669	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-E Line Well	Well Design:	Huntington A-E Line Well 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903669		

CS1450
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101853**

OIL_GAS:

API #:	0405901399	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Van	Well Design:	Van 1
Operator ID:	A4525	Operator Name:	Atlantic Richfield Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901399		

CS1451
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102551**

OIL_GAS:

API #:	0405901644	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 12
Operator ID:	01675	Operator Name:	Club Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901644		

CW1452
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103609**

OIL_GAS:

API #:	0405904041	Well #:	343-8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 343-8
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904041		

DD1453
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000104261**

OIL_GAS:

API #:	0405900162	Well #:	9
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington D	Well Design:	Huntington D 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900162		

CP1454
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102585**

OIL_GAS:

API #:	0405903513	Well #:	126
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 126
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903513

CU1455
NNE **OIL_GAS** **CAOG17000103396**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903884	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 3
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903884		

DC1456
ESE **OIL_GAS** **CAOG17000103403**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901517	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Devon Shore	Well Design:	Devon Shore 3
Operator ID:	01883	Operator Name:	Cozi Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901517		

CN1457
ESE **OIL_GAS** **CAOG17000101794**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901904	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ht	Well Design:	Ht 1
Operator ID:	03858	Operator Name:	Harry Hunter-J. P. Thurmond
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901904		

Map ID
Direction
Distance

Database EDR ID Number

CN1458
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101789**

OIL_GAS:

API #:	0405901777	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by J. R. George	Well Design:	1
Operator ID:	04459	Operator Name:	J. R. George
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901777		

CU1459
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104038**

OIL_GAS:

API #:	0405903887	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903887		

1460
NNW
1/2 - 1 Mile

OIL_GAS **CAOG17000104628**

OIL_GAS:

API #:	0405902668	Well #:	S-64
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-64
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902668		

Map ID
Direction
Distance

Database EDR ID Number

CS1461
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102363**

OIL_GAS:

API #:	0405901499	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Behr	Well Design:	Behr 1
Operator ID:	03934	Operator Name:	Henry F. Bloomfield (Mrs.)
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901499		

CS1462
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103408**

OIL_GAS:

API #:	0405901657	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hbv	Well Design:	Hbv 3
Operator ID:	S4563	Operator Name:	South Coast Oil Corporation
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901657		

CW1463
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102594**

OIL_GAS:

API #:	0405904119	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 13
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904119		

CS1464
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103409**

OIL_GAS:

API #:	0405901823	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	A. & T.	Well Design:	A. & T. 3
Operator ID:	03578	Operator Name:	Guaranty Securities Co. Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901823		

DC1465
ESE **OIL_GAS** **CAOG17000103109**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900423	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Van Alen	Well Design:	Van Alen 2
Operator ID:	01957	Operator Name:	D & S Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900423		

DC1466
ESE **OIL_GAS** **CAOG17000102310**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901515	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Mills	Well Design:	Mills 1
Operator ID:	01857	Operator Name:	Corlitz Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901515		

DG1467
SE **OIL_GAS** **CAOG17000102344**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904095	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Plavan	Well Design:	Plavan 1
Operator ID:	C9100	Operator Name:	Crown Central Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05904095

DH1468
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102672**

OIL_GAS:

API #:	0405903530	Well #:	143
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 143
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903530		

DE1469
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104583**

OIL_GAS:

API #:	0405902644	Well #:	S-21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902644		

DC1470
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103106**

OIL_GAS:

API #:	0405904081	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2
Operator ID:	08780	Operator Name:	Verne E. and Lorene C. Strang
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904081		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

CT1471
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102455**

OIL_GAS:

API #:	0405902748	Well #:	1011
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1011
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902748		

DC1472
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101271**

OIL_GAS:

API #:	0405901614	Well #:	6
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	Custom	Well Design:	Custom 6
Operator ID:	Y0400	Operator Name:	Yunker, Morton & Dolley
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901614		

CZ1473
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102829**

OIL_GAS:

API #:	0405901558	Well #:	18
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Macklin	Well Design:	Macklin 18
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901558		

Map ID
Direction
Distance

Database EDR ID Number

DH1474
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102711**

OIL_GAS:

API #:	0405903535	Well #:	150
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 150
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903535		

DI1475
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102682**

OIL_GAS:

API #:	0405903533	Well #:	147
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 147
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903533		

CZ1476
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101807**

OIL_GAS:

API #:	0405901966	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Macklin	Well Design:	Macklin 1
Operator ID:	05619	Operator Name:	Macklin Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901966		

CV1477
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102724**

OIL_GAS:

API #:	0405903540	Well #:	155
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 155
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903540		

DH1478
NNE **OIL_GAS** **CAOG17000103304**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903632	Well #:	255
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 255
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903632		

CW1479
SE **OIL_GAS** **CAOG17000103811**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904072	Well #:	45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 45
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904072		

DC1480
ESE **OIL_GAS** **CAOG17000104129**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901671	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Custom	Well Design:	Custom 7
Operator ID:	01943	Operator Name:	Custom Drilling Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901671

DI1481
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102614**

OIL_GAS:

API #:	0405900426	Well #:	130
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 130
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900426		

DC1482
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102315**

OIL_GAS:

API #:	0405901613	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Casey	Well Design:	Casey 1
Operator ID:	Y0400	Operator Name:	Yunker, Morton & Dolley
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901613		

DJ1483
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104275**

OIL_GAS:

API #:	0405901672	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Custom	Well Design:	Custom 9
Operator ID:	01943	Operator Name:	Custom Drilling Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901672		

Map ID
Direction
Distance

Database EDR ID Number

DA1484
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102851**

OIL_GAS:

API #:	0405903568	Well #:	187
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 187
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903568		

DI1485
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000104060**

OIL_GAS:

API #:	0405903406	Well #:	6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 6
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903406		

CY1486
ENE
1/2 - 1 Mile

OIL_GAS **CAOG17000103798**

OIL_GAS:

API #:	0405903444	Well #:	43
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 43
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903444		

DH1487
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103269**

OIL_GAS:

API #:	0405903621	Well #:	242
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 242
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903621		

DF1488
NNW **OIL_GAS** **CAOG17000104617**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902659	Well #:	S-53
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-53
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902659		

CW1489
SE **OIL_GAS** **CAOG17000103944**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904153	Well #:	52
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Pacific Electric	Well Design:	Pacific Electric 52
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904153		

DK1490
ESE **OIL_GAS** **CAOG17000102942**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901912	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Byrd	Well Design:	Byrd 2
Operator ID:	08103	Operator Name:	Street Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901912

DB1491
NNE **OIL_GAS** **CAOG17000102633**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903523	Well #:	138
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 138
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903523		

DH1492
NNE **OIL_GAS** **CAOG17000103341**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903428	Well #:	27
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 27
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903428		

DH1493
NNE **OIL_GAS** **CAOG17000103325**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903639	Well #:	263
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 263
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903639		

Map ID
Direction
Distance

Database EDR ID Number

DH1494
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103369**

OIL_GAS:

API #:	0405903656	Well #:	286
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 286
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	North
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903656		

DA1495
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102775**

OIL_GAS:

API #:	0405903553	Well #:	169
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 169
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903553		

1496
East
1/2 - 1 Mile

OIL_GAS **CAOG17000103127**

OIL_GAS:

API #:	0405903956	Well #:	20
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 20
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903956		

DA1497
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102630**

OIL_GAS:

API #:	0405903522	Well #:	137
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 137
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903522		

DA1498
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103853**

OIL_GAS:

API #:	0405903405	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903405		

DH1499
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103349**

OIL_GAS:

API #:	0405903648	Well #:	274
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 274
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903648		

DG1500
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102355**

OIL_GAS:

API #:	0405902270	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fortuna Windsor	Well Design:	Fortuna Windsor 1
Operator ID:	08385	Operator Name:	The Petrol Corp.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05902270

DC1501
ESE **OIL_GAS** **CAOG17000102307**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901421	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by E. A. Beaudette	Well Design:	1
Operator ID:	02324	Operator Name:	E. A. Beaudette
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901421		

DC1502
ESE **OIL_GAS** **CAOG17000103421**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900081	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lansdale	Well Design:	Lansdale 3
Operator ID:	00090	Operator Name:	A. Lansdale
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900081		

DG1503
SE **OIL_GAS** **CAOG17000102962**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902088	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	McVey	Well Design:	McVey 2
Operator ID:	05595	Operator Name:	M. W. Mcvey
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902088		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DA1504
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103299**

OIL_GAS:

API #:	0405903629	Well #:	252
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 252
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903629		

DG1505
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104340**

OIL_GAS:

API #:	0405904731	Well #:	998
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 998
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904731		

CZ1506
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102335**

OIL_GAS:

API #:	0405904531	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rhoads	Well Design:	Rhoads 1
Operator ID:	07045	Operator Name:	R. E. Doherty
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904531		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DA1507
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102874**

OIL_GAS:

API #:	0405903571	Well #:	190
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 190
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903571		

DG1508
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102484**

OIL_GAS:

API #:	0405902226	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Davis	Well Design:	Davis 11
Operator ID:	K0695	Operator Name:	Kelter Bros.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902226		

DL1509
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104608**

OIL_GAS:

API #:	0405902655	Well #:	S-42-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-42-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902655		

Map ID
Direction
Distance

Database EDR ID Number

DG1510
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101838**

OIL_GAS:

API #:	0405902203	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Donlan	Well Design:	Donlan 1
Operator ID:	W0650	Operator Name:	Weaver & Weaver
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902203		

DG1511
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102367**

OIL_GAS:

API #:	0425901634	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ingalls	Well Design:	Ingalls 1
Operator ID:	01444	Operator Name:	Cather & McCallen Wells
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	Unknown
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=25901634		

DG1512
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102368**

OIL_GAS:

API #:	0405901634	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ingalls	Well Design:	Ingalls 1
Operator ID:	01444	Operator Name:	Cather & McCallen Wells
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901634		

DM1513
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103893**

OIL_GAS:

API #:	0405901477	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Kenneth M. Bennett		
Well Design:	5	Operator ID:	04911
Operator Name:	Kenneth M. Bennett	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901477		

DK1514
ESE **OIL_GAS** **CAOG17000101796**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901910	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hunter	Well Design:	Hunter 1
Operator ID:	08103	Operator Name:	Street Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901910		

DH1515
NNE **OIL_GAS** **CAOG17000103173**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903592	Well #:	213
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 213
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903592		

DG1516
SE **OIL_GAS** **CAOG17000104341**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901461	Well #:	999
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 999
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901461

DG1517
SE **OIL_GAS** **CAOG17000103091**
1/2 - 1 Mile

OIL_GAS:

API #:	0405902232	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Hall	Well Design:	Hall 2
Operator ID:	W0650	Operator Name:	Weaver & Weaver
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902232		

CZ1518
SE **OIL_GAS** **CAOG17000101808**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901415	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Byrens	Well Design:	Byrens 1
Operator ID:	00550	Operator Name:	B. C. Barnes
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901415		

DC1519
ESE **OIL_GAS** **CAOG17000102544**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900951	Well #:	12
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ba	Well Design:	Ba 12
Operator ID:	00064	Operator Name:	A. H. Trester & Doris D. Trester
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900951		

Map ID
Direction
Distance

Database EDR ID Number

DL1520
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104698**

OIL_GAS:

API #:	0405920542	Well #:	SE-2
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa SE-2
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920542		

DB1521
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104321**

OIL_GAS:

API #:	0405903487	Well #:	97
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 97
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903487		

DA1522
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102838**

OIL_GAS:

API #:	0405900135	Well #:	181
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 181
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900135		

Map ID
Direction
Distance

Database EDR ID Number

CZ1523
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101813**

OIL_GAS:

API #:	0405900089	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Shepherd	Well Design:	Shepherd 1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900089		

DG1524
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102345**

OIL_GAS:

API #:	0405901460	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 1
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901460		

DN1525
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103229**

OIL_GAS:

API #:	0405903423	Well #:	23
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 23
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903423		

DK1526
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103110**

OIL_GAS:

API #:	0405901762	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by E. A. Fennell Co. Inc.		
Well Design:	2	Operator ID:	02334
Operator Name:	E. A. Fennell Co. Inc.	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901762		

CZ1527
ESE **OIL_GAS** **CAOG17000102949**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901839	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	C & D	Well Design:	C & D 2
Operator ID:	00220	Operator Name:	Alfred M. Hammerslough
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901839		

DC1528
ESE **OIL_GAS** **CAOG17000102604**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901913	Well #:	13
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ba	Well Design:	Ba 13
Operator ID:	08806	Operator Name:	Vincent F. Stabeck
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901913		

DG1529
SE **OIL_GAS** **CAOG17000103412**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901550	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Centralia	Well Design:	Centralia 3
Operator ID:	06086	Operator Name:	Morton L. Brown
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05901550

DO1530
NNE **OIL_GAS** **CAOG17000104268**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903890	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 9
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903890		

DK1531
ESE **OIL_GAS** **CAOG17000102308**
1/2 - 1 Mile

OIL_GAS:

API #:	0405904687	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Potts	Well Design:	Potts 1
Operator ID:	09576	Operator Name:	Giles E. Wallace
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904687		

DJ1532
ESE **OIL_GAS** **CAOG17000102934**
1/2 - 1 Mile

OIL_GAS:

API #:	0405900080	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lansdale	Well Design:	Lansdale 2
Operator ID:	H6600	Operator Name:	Huntington Beach Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900080		

Map ID
Direction
Distance

Database EDR ID Number

DM1533
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103591**

OIL_GAS:

API #:	0405901424	Well #:	335
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 335
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901424		

DI1534
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000104237**

OIL_GAS:

API #:	0405903477	Well #:	83
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 83
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903477		

DP1535
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101555**

OIL_GAS:

API #:	0405903265	Well #:	4141
Well Type:	Waterflood	Well Status:	Active
Lease Name:	State Prc 426	Well Design:	State Prc 426 4141
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903265		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DN1536
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103350**

OIL_GAS:

API #:	0405900138	Well #:	275
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 275
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900138		

DQ1537
North
1/2 - 1 Mile

OIL_GAS **CAOG17000101714**

OIL_GAS:

API #:	0405921368	Well #:	S-20-A
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	South Bolsa	Well Design:	South Bolsa S-20-A
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05921368		

DG1538
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104114**

OIL_GAS:

API #:	0405904521	Well #:	7
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by The Termo Company		
Well Design:	7	Operator ID:	T1200
Operator Name:	The Termo Company	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904521		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DP1539
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102456**

OIL_GAS:

API #:	0405902749	Well #:	1012
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1012
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902749		

DQ1540
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104703**

OIL_GAS:

API #:	0405920526	Well #:	SF5-1
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa SF5-1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920526		

DC1541
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103710**

OIL_GAS:

API #:	0405902140	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Texaco	Well Design:	Texaco 4
Operator ID:	M8100	Operator Name:	Morton and Dolley
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902140		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DC1542
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101922**

OIL_GAS:

API #:	0405902368	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rood	Well Design:	Rood 1
Operator ID:	07409	Operator Name:	Rood Assoc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902368		

DQ1543
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104592**

OIL_GAS:

API #:	0405920530	Well #:	S-24-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-24-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920530		

DM1544
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102331**

OIL_GAS:

API #:	0405903279	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Gray Eagle	Well Design:	Gray Eagle 1
Operator ID:	07859	Operator Name:	Signal Royalties Co.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903279		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DR1545
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104317**

OIL_GAS:

API #:	0405903485	Well #:	95
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 95
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	North
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903485		

DP1546
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102459**

OIL_GAS:

API #:	0405902752	Well #:	1015
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1015
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902752		

DO1547
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103842**

OIL_GAS:

API #:	0405903886	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 5
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903886		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DN1548
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103152**

OIL_GAS:

API #:	0405903587	Well #:	208
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 208
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903587		

DG1549
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101825**

OIL_GAS:

API #:	0405902099	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 996	Well Design:	State Prc 996 1
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902099		

DM1550
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103092**

OIL_GAS:

API #:	0405904098	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Treat	Well Design:	Treat 2
Operator ID:	C9100	Operator Name:	Crown Central Petro. Corp.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904098		

Map ID
Direction
Distance

Database EDR ID Number

DG1551
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103090**

OIL_GAS:

API #:	0405901508	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2
Operator ID:	01823	Operator Name:	Consolidated Petro. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901508		

DS1552
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102409**

OIL_GAS:

API #:	0405903290	Well #:	10
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by C. S. Smith	Well Design:	10
Operator ID:	01155	Operator Name:	C. S. Smith
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903290		

DG1553
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102339**

OIL_GAS:

API #:	0405902385	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Signal	Well Design:	Signal 1
Operator ID:	L2475	Operator Name:	Lone Eagle, LLC
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902385		

DI1554
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103137**

OIL_GAS:

API #:	0405903581	Well #:	200
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 200
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903581		

DT1555
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102961**

OIL_GAS:

API #:	0405903402	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903402		

DP1556
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103754**

OIL_GAS:

API #:	0405903217	Well #:	4023
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4023
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903217		

DU1557
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104232**

OIL_GAS:

API #:	0405903475	Well #:	81
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 81
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903475

DG1558
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101859**

OIL_GAS:

API #:	0405901506	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Centralia	Well Design:	Centralia 1
Operator ID:	01823	Operator Name:	Consolidated Petro. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901506		

DG1559
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104407**

OIL_GAS:

API #:	0405901937	Well #:	F-6
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Huntington Signal Oil Company		
Well Design:	F-6	Operator ID:	H6700
Operator Name:	Huntington Signal Oil Company		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901937		

DJ1560
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104199**

OIL_GAS:

API #:	0405901680	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by D and D Oil Company		
Well Design:	8	Operator ID:	01953
Operator Name:	D and D Oil Company	Field Name:	Huntington Beach
Area Name:	Any Area	Place:	Huntington Beach
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901680		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DK1561
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103107**

OIL_GAS:

API #:	0405901313	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 2
Operator ID:	A0775	Operator Name:	Alamo Oil Company
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901313		

DG1562
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103165**

OIL_GAS:

API #:	0405902730	Well #:	21
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 91	Well Design:	State Prc 91 21
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902730		

DN1563
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103307**

OIL_GAS:

API #:	0405903635	Well #:	258
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 258
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903635		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DK1564
ESE **OIL_GAS** **CAOG17000101802**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901540	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	00938	Operator Name:	Brooks & Bauerdorf
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901540		

DQ1565
North **OIL_GAS** **CAOG17000104594**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920529	Well #:	S-25-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-25-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920529		

DG1566
SE **OIL_GAS** **CAOG17000101832**
1/2 - 1 Mile

OIL_GAS:

API #:	0405901507	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Fee	Well Design:	Fee 1
Operator ID:	01823	Operator Name:	Consolidated Petro. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901507		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DK1567
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000104260**

OIL_GAS:

API #:	0405903289	Well #:	9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by C. S. Smith	Well Design:	9
Operator ID:	01155	Operator Name:	C. S. Smith
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903289		

DP1568
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103755**

OIL_GAS:

API #:	0405903218	Well #:	4024X
Well Type:	Unknown	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4024X
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903218		

DH1569
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104184**

OIL_GAS:

API #:	0405903473	Well #:	79
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 79
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903473		

Map ID
Direction
Distance

Database EDR ID Number

DS1570
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103289**

OIL_GAS:

API #:	0405902113	Well #:	25
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	BRA	Well Design:	BRA 25
Operator ID:	02417	Operator Name:	E. J. Miller
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902113		

DG1571
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103896**

OIL_GAS:

API #:	0405901475	Well #:	5
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach Fee	Well Design:	Huntington Beach Fee 5
Operator ID:	00711	Operator Name:	Beloil Corporation, Ltd.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901475		

DK1572
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102699**

OIL_GAS:

API #:	0405902220	Well #:	15
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Town Lot	Well Design:	Town Lot 15
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902220		

1573
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103610**

OIL_GAS:

API #:	0405904042	Well #:	343-9
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 343-9
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904042		

DM1574
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102323**

OIL_GAS:

API #:	0405902025	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Brown	Well Design:	Brown 1
Operator ID:	05326	Operator Name:	Lido Petro. Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902025		

DJ1575
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101919**

OIL_GAS:

API #:	0405901706	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Community	Well Design:	Community 1
Operator ID:	05567	Operator Name:	M. K. Doumani
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901706		

DJ1576
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103809**

OIL_GAS:

API #:	0405904476	Well #:	45
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 45
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date:	Not Reported
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904476

DJ1577
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103634**

OIL_GAS:

API #:	0405900175	Well #:	37
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 37
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900175		

DP1578
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000102457**

OIL_GAS:

API #:	0405902750	Well #:	1013
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 163	Well Design:	State Prc 163 1013
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902750		

DU1579
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000101781**

OIL_GAS:

API #:	0405903230	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A-JCLW	Well Design:	Huntington A-JCLW 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903230		

Map ID
Direction
Distance

Database EDR ID Number

DG1580
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102500**

OIL_GAS:

API #:	0405902231	Well #:	11
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	H. B.	Well Design:	H. B. 11
Operator ID:	06453	Operator Name:	Olympic Refining Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902231		

DK1581
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101804**

OIL_GAS:

API #:	0405904510	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Deke	Well Design:	Deke 1
Operator ID:	09567	Operator Name:	Floyd R. Ten Eyck
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904510		

DS1582
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103450**

OIL_GAS:

API #:	0405901341	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Williams	Well Design:	Williams 3
Operator ID:	C8450	Operator Name:	Corona Development Co. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901341		

DN1583
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103181**

OIL_GAS:

API #:	0405903596	Well #:	217
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 217
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903596		

DG1584
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000104339**

OIL_GAS:

API #:	0405902089	Well #:	997
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State 91 Mzu	Well Design:	State 91 Mzu 997
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902089		

DQ1585
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104595**

OIL_GAS:

API #:	0405920533	Well #:	S-26-B
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-26-B
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920533		

DG1586
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101850**

OIL_GAS:

API #:	0405900085	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	B & P	Well Design:	B & P 1
Operator ID:	O0300	Operator Name:	Estate of Howard F. O'Brien
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud

Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900085		

1587
East
1/2 - 1 Mile

OIL_GAS **CAOG17000102482**

OIL_GAS:

API #:	0405900171	Well #:	11
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 11
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	South Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05900171		

DJ1588
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103647**

OIL_GAS:

API #:	0405903971	Well #:	39
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington E	Well Design:	Huntington E 39
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903971		

DN1589
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102532**

OIL_GAS:

API #:	0405903506	Well #:	117-A
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 117-A
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903506		

Map ID
Direction
Distance

Database EDR ID Number

DK1590
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102247**

OIL_GAS:

API #:	0405901406	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Baker	Well Design:	Baker 1
Operator ID:	00573	Operator Name:	B. W. F. Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901406		

DP1591
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000101223**

OIL_GAS:

API #:	0405903211	Well #:	4007
Well Type:	Oil & Gas	Well Status:	Idle
Lease Name:	State Prc 426	Well Design:	State Prc 426 4007
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903211		

DJ1592
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103762**

OIL_GAS:

API #:	0405904146	Well #:	41
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington H	Well Design:	Huntington H 41
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904146		

Map ID
Direction
Distance

Database EDR ID Number

DM1593
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000102951**

OIL_GAS:

API #:	0405904532	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Rhoads	Well Design:	Rhoads 2
Operator ID:	07047	Operator Name:	R. E. Doherty, Jr.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05904532		

DR1594
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000102719**

OIL_GAS:

API #:	0405903538	Well #:	153
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 153
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903538		

DG1595
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000103414**

OIL_GAS:

API #:	0405902269	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Ames	Well Design:	Ames 3
Operator ID:	08385	Operator Name:	The Petrol Corp.
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902269		

DT1596
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103142**

OIL_GAS:

API #:	0405903583	Well #:	203
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 203
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903583		

1597
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000102756**

OIL_GAS:

API #:	0405903546	Well #:	161
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 161
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903546		

1598
NNW
1/2 - 1 Mile

OIL_GAS **CAOG17000104647**

OIL_GAS:

API #:	0405920617	Well #:	S-74-E
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-74-E
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920617		

DN1599
NE
1/2 - 1 Mile

OIL_GAS **CAOG17000103302**

OIL_GAS:

API #:	0405903631	Well #:	254
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 254
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N

Spud Date: Not Reported
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=05903631

DM1600
SE
1/2 - 1 Mile

OIL_GAS **CAOG17000101791**

OIL_GAS:

API #:	0405901334	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Martin	Well Design:	Martin 1
Operator ID:	R4500	Operator Name:	Rupe Resources
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901334		

DP1601
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103752**

OIL_GAS:

API #:	0405903215	Well #:	4011
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4011
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	Well Summary
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	10/31/1952		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903215		

DS1602
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101799**

OIL_GAS:

API #:	0405901586	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	City Of Huntington Beach	Well Design:	City Of Huntington Beach 1
Operator ID:	01182	Operator Name:	Cadillac Oil Co.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901586		

Map ID
Direction
Distance

Database EDR ID Number

DK1603
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102250**

OIL_GAS:

API #:	0405902252	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lease by Pacific Oil Investment Co. Ltd.		
Well Design:	1	Operator ID:	06590
Operator Name:	Pacific Oil Investment Co. Ltd.		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902252		

DO1604
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000104227**

OIL_GAS:

API #:	0405903889	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 8
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903889		

DQ1605
North
1/2 - 1 Mile

OIL_GAS **CAOG17000101410**

OIL_GAS:

API #:	0405902650	Well #:	S-31
Well Type:	Waterflood	Well Status:	Idle
Lease Name:	South Bolsa	Well Design:	South Bolsa S-31
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902650		

Map ID
Direction
Distance

Database EDR ID Number

DU1606
NNE
1/2 - 1 Mile

OIL_GAS **CAOG17000103348**

OIL_GAS:

API #:	0405903647	Well #:	273
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 273
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903647		

DK1607
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000102246**

OIL_GAS:

API #:	0405901333	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington Beach	Well Design:	Huntington Beach 1
Operator ID:	R4500	Operator Name:	Rupe Resources
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901333		

DK1608
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101925**

OIL_GAS:

API #:	0405901960	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Lyons	Well Design:	Lyons 1
Operator ID:	03369	Operator Name:	George P. Lyons
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901960		

DK1609
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101803**

OIL_GAS:

API #:	0405901339	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Williams	Well Design:	Williams 1
Operator ID:	R4500	Operator Name:	Rupe Resources
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901339		

DP1610
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103753**

OIL_GAS:

API #:	0405903216	Well #:	4012
Well Type:	Waterflood	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4012
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	South Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903216		

DS1611
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103448**

OIL_GAS:

API #:	0405901817	Well #:	3
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Medearis	Well Design:	Medearis 3
Operator ID:	03476		
Operator Name:	Golden State Drilling and Producing Co.		
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901817		

DL1612
North
1/2 - 1 Mile

OIL_GAS **CAOG17000104607**

OIL_GAS:

API #:	0405902654	Well #:	S-42
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	South Bolsa	Well Design:	South Bolsa S-42
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Any Area

Place:	Orange County	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902654		

DJ1613
ESE **OIL_GAS** **CAOG17000102940**
1/2 - 1 Mile

OIL_GAS:

API #:	0405920014	Well #:	2
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Grammar School	Well Design:	Grammar School 2
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920014		

DR1614
NNE **OIL_GAS** **CAOG17000104226**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903408	Well #:	8
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington A	Well Design:	Huntington A 8
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903408		

DO1615
NNE **OIL_GAS** **CAOG17000101749**
1/2 - 1 Mile

OIL_GAS:

API #:	0405903881	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Huntington C	Well Design:	Huntington C 1
Operator ID:	C5640	Operator Name:	Chevron U.S.A. Inc.
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903881		

Map ID
Direction
Distance

Database EDR ID Number

DK1616
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000101927**

OIL_GAS:

API #:	0405902299	Well #:	1
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Devco	Well Design:	Devco 1
Operator ID:	03799	Operator Name:	Harold C. Ramser
Field Name:	Huntington Beach	Area Name:	Any Area
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05902299		

DP1617
NW
1/2 - 1 Mile

OIL_GAS **CAOG17000103775**

OIL_GAS:

API #:	0405903244	Well #:	4120
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	State Prc 426	Well Design:	State Prc 426 4120
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Offshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05903244		

DQ1618
North
1/2 - 1 Mile

OIL_GAS **CAOG17000101716**

OIL_GAS:

API #:	0405920543	Well #:	S-31-E
Well Type:	Oil & Gas	Well Status:	Active
Lease Name:	South Bolsa	Well Design:	South Bolsa S-31-E
Operator ID:	C0885		
Operator Name:	California Resources Production Corporation		
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Orange County	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05920543		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

DS1619
ESE
1/2 - 1 Mile

OIL_GAS **CAOG17000103674**

OIL_GAS:

API #:	0405901342	Well #:	4
Well Type:	Oil & Gas	Well Status:	Plugged
Lease Name:	Williams	Well Design:	Williams 4
Operator ID:	C8450	Operator Name:	Corona Development Co. Inc.
Field Name:	Huntington Beach	Area Name:	Onshore
Place:	Huntington Beach	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	Not Reported		
Well Record Request URL:	https://filerequest.conservation.ca.gov/WellRecord?api=05901342		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92648	64	2

Federal EPA Radon Zone for ORANGE County: 3

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 ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX G

RESUMES OF ENVIRONMENTAL PROFESSIONALS

CORY LAVOIE, CHMM, PMP

PRINCIPAL

ENVIRONMENTAL SERVICES

Cory Lavoie is a seasoned environmental professional with nearly 20 years of experience managing complex projects in the energy and infrastructure sectors. As a Certified Hazardous Materials Manager (CHMM) and Project Management Professional (PMP), he brings a strategic, regulatory-focused approach to Phase I Environmental Site Assessments (ESAs), remediation, and permitting.

He has led large-scale environmental efforts emphasizing CEQA compliance and multi-agency coordination, including work with the Regional Water Quality Control Board, DTSC and EPA. Cory's recent projects include due diligence and remediation oversight for petroleum, chlorinated solvent, and PFAS-impacted sites, as well as vapor mitigation and industrial compliance reviews. His leadership supports technically sound, cost-effective solutions that align with client goals and regulatory standards.

SELECTED PROJECTS

- County of Santa Barbara, Environmental Services, SEMCO Industrial TCE-PCE Remediation, Santa Maria, CA
- Santa Barbara Airport, Environmental Services, PFAS Remediation Project, Santa Barbara, CA
- City of San Luis Obispo, Environmental Services, Laguna Lake Dredge Project, San Luis Obispo, CA
- Commercial Warehouse Developer, Environmental and Natural Resource Services, Commercial Development, Santa Clarita, CA
- Commercial Office Park Developer, TCE-PCE Remediation, Environmental and Natural Resources Services, Commercial Development, Santa Clarita, CA
- Investment Firm, Environmental and Geotechnical Services, Coastal Properties Assessment, Isle Vista, CA
- Environmental Attorney, Environmental Services, Industrial Facility Permitting and Compliance, Goleta, CA
- Major Chemical Client, Industrial TCE-PCE Remediation, Southern CA
- Environmental Attorney, Environmental Services, Industrial Facility Permitting and Compliance, Goleta, CA
- Major Petroleum Client, PCB and VOC Remediation and Restoration, Former Natural Gas Plant, Santa Barbara County, CA
- Major Petroleum Client, Oil Field Remediation and Restoration Monitoring and Maintenance, Santa Barbara County CA
- California Oil and Gas Producer, Lease Closure Permitting and Remediation for Future Residential Development, Santa Clarita, CA
- Major Petroleum Client, Product Pipeline Abandonment Assessment, Los Angeles to San Francisco, CA
- Waste Transporter, Truck Roll-over Emergency Response Management and Sampling, Southern CA



EDUCATION

Post-Bacc. Certificate, Engineering Management University of Maryland, Baltimore County

M.Sc., Environmental, Towson University

B.Sc., Environmental, Bloomsburg University

PROFESSIONAL REGISTRATIONS

Project Management Professional (No. 2780958)

Certified Hazardous Materials Manager (No. 39069)

TRAINING AND CERTIFICATIONS

HAZWOPER 40-hr & 8-hr Supervisor

Transportation Worker Identification Credential

AFFLIATIONS

California Association for Environmental Professionals

TRAVIS KNIGHT, EIT

PROJECT ENGINEER

ENVIRONMENTAL ENGINEERING

Mr. Knight has over seven years of experience in supporting and managing environmental investigation and remediation projects. Mr. Knight has seen dozens of projects through transaction related environmental due diligence, particularly in the Greater Los Angeles and Orange County Areas. He has practical experience executing both small-scale projects and larger projects covering over 90-acres with million-dollar budgets. He has working knowledge of local and state regulations and experience interfacing with regulatory agencies. Mr. Knight has managed a variety of projects, including Phase I/II Environmental Site Assessments, site characterization investigations, underground storage tank and clarifier removals, and soil, soil vapor, and groundwater remediation sites.



SELECTED PROJECTS

- Environmental Remediation Contractor Client, Aerospace Manufacturing Facility PCE Groundwater Remediation, Orange County, CA
- Commercial Developer Client, Oil Refinery Site Assessment, Los Angeles County, CA
- Commercial Developer Client, Fromer Agricultural Site Assessment, Riverside County, CA
- Industrial Property Owner Client, Manufacturing Facility PCE Soil, Soil Vapor and Groundwater Investigation and Remediation, Los Angeles County, CA
- Major Petroleum Client, Oil Field Investigation and Remediation, Orange County, CA
- Major Petroleum Client, Oil Field Reclamation, Chaves County, NM
- Major Petroleum Client, Soil and Groundwater Investigation, Hildalgo County, TX
- Major Petroleum Client, Oil Well Site Reclamation, Montezuma County, CO
- Manufacturing Client, PFAS Due Diligence and Soil Investigation, Craven County, NC
- Manufacturing Client, PCE Due Diligence and Soil, Soil Vapor, and Groundwater Investigation, Los Angeles County, CA
- Manufacturing Client, Clarifier Removal, Los Angeles County, CA
- Numerous Clients, Phase I and Phase II ESAs, Los Angeles and Orange Counties, CA
- Real Estate Management Client, Drycleaner Investigation and Remediation, Orange County, CA
- Real Estate Management Client, Underground Storage Tank Removal, Santa Barbara, CA

EDUCATION

B.Sc., Environmental Engineering, University of California San Diego

PROFESSIONAL REGISTRATIONS

Engineer in Training (No. 163532)

TRAINING AND CERTIFICATIONS

HAZWOPER 40-hr & 8-hr Supervisor

KATHERINE THOMAS

ENVIRONMENTAL ENGINEERING

STAFF SCIENTIST

Katherine Thomas has experience in site remediation, including preliminary assessment, site investigation, remedial investigation, and remedial action in Southern California. She has provided support for Phase I and Phase II environmental site assessments (ESAs); managed, monitored, and sampled groundwater from sites contaminated with tetrachloroethylene (PCE) and diesel; conducted soil vapor investigations; and performed environmental field work and site reconnaissance to detect potential environmental concerns and/or recognized environmental conditions on properties, such as commercial buildings, multi-family buildings, vacant lots and buildings, and industrial properties. Additional experience includes preliminary endangerment assessments (PEAs) and oil and mineral rights surveys. She has prepared various reports and other environmental regulatory documents for her projects.



EDUCATION

B.S., Environmental Economics and Policy, Oregon State University

CERTIFICATIONS

OSHA 40-Hour HAZWOPER

OSHA Site Supervisor

First Aid and CPR Certified

SELECTED PROJECTS

- California Resource Company, Phase I ESA and Phase II ESA, Huntington Beach, CA
- Goodman, Phase I ESA and Phase II ESA, Vernon, CA
- BJD Resourcing, Los Angeles River Pipeline Assessments, Los Angeles, CA
- Thor Equities Group, Phase I ESA, Wilmington, CA
- Rexford Industrial Realty, Inc., Phase I ESA, Various Locations, CA
- IRG Realty Advisors, LLC, Phase I ESA, San Diego, CA
- DSD Renewables, Phase I ESA, Various Locations, CA
- NFI Group, Environmental Review, Ontario, CA
- TKC Orland, LLC, Phase I ESA, Orland, CA
- Blank Rome LLP, Phase I ESA, Commerce, CA
- Buchanan Ingersoll & Rooney PC, Phase I ESA, Santa Paula, CA
- Quadrum LA LLC, Phase I ESA, Hollywood, CA
- Umdasch Real Estate USA, Phase I ESA, Perris, CA
- McCourt Global Partners, Phase I ESA and oversight, Various Locations, CA
- Oil and Gas Company, Various Locations, U.S.
- Phase I ESA and Oversight, MacLaren Children's Center, El Monte, CA*
- Groundwater remediation and testing, Refuse Yard, Los Angeles, CA*
- Methane testing, Los Angeles Unified School District, CA*
- Aerial lead soil sampling, Los Angeles, CA*
- Soil and soil vapor sampling, Los Angeles, CA*
- Confidential, Environmental Due Diligence, Southern California*
- Phase I ESA, Industrial Yard, City of Commerce, CA*

*Denotes projects performed prior to joining Langan