Phase I Environmental Site Assessment

3701 Pacific Place
Long Beach, California

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Prepared for:

InSite Property Group

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Abbreviations and Acronyms

AAI	All Appropriate Inquiries
AECs	Areas of elevated concentrations
APN	Assessor's Parcel Number
ASTM	American Society for Testing Materials
AST	Aboveground Storage Tank
AUL	Activity and use limitation
Bgs	Below ground surface
BFP	Bona fide purchaser
BFPP	Bona fide prospective purchaser
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CalEPA	California Environmental Protection Agency
CalTrans	California Department of Transportation
CARB	California Air Resources Board
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERS	California Environmental Reporting System
CHHSLs	California Human Health Screening Levels
CHMIRS	California Hazardous Material Incident Reporting System
CLRRA	California Land Reuse and Revitalization Act
cREC	Controlled Recognized Environmental Condition
CRG	CRG Properties, Ltd.
CPT	Cone penetrometer test
CUPA	Certified Unified Program Agency
CY	Cubic yards
DTSC	Department of Toxic Substances Control
DOGGR	Division of Oil, Gas and Geothermal Resources
EDR	Environmental Data Resources, Inc.
ETC	Earth Technology Corporation
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FS	Feasibility Study
GEOFON	GEOFON, Inc.
GMED	Geotechnical and Materials Engineering Division
HHMD	Health Hazardous Materials Division
HHRA	Human health risk assessment
hREC	Historical Recognized Environmental Condition
HVL	Highly volatile liquid
HWTS	Hazardous Waste Tracking System
InSite	Insite Property Group
OEHHA	Office of Environmental Health Hazard Assessment
I-405	Interstate 405 Freeway
iPRGs	Industrial preliminary remediation goals
IDW	Investigation-derived waste
Jaykim	Jaykim Engineers, Inc.
JB	Jack K. Bryant & Associates

LFR	LFR Inc.
LARWQCB	Los Angeles Regional Water Quality Control Board
LACoFD	Los Angeles County Fire Department
LACDPW	Los Angeles County Department of Public Works
LACSD	Los Angeles County Sanitation District
LEL	Lower explosive limit
MA DEP	Massachusetts Department of Environmental Protection
MCLs	Maximum contaminant levels
msl	Mean sea level
mmHg	millimeters of mercury
µg/L	Micrograms per liter
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NIFZ	Newport-Inglewood fault zone
NPL	National Priorities List
NPMS	National Pipeline Mapping System
Oil Operators	Oil Operators, Inc.
OEFs	Other Environmental Features
ppm	Parts per million
Pender Properties	Pender Properties, Inc.
PAH	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
RECs	Recognized Environmental Conditions
RWQCB	Regional Water Quality Control Board
RI	Remedial Investigation
Roux	Roux Associates, Inc.
SMARTS	Storm Water Multiple Application and Report Tracking System
SWRCB	State Water Resources Control Board
SWIMS	Solid Waste Information Management System
SWIS	Solid Waste Information System
SVOCs	Semi-volatile organic compounds
SCAQMD	South Coast Air Quality Management District
Sukut Development	Sukut Development, Inc.
PCE	Tetrachloroethene
TDS	Total dissolved solids
TPHcc	Total petroleum hydrocarbons carbon chain
TPHg	Total petroleum hydrocarbons gasoline range
TPH	Total petroleum hydrocarbons
TRPH	Total recoverable petroleum hydrocarbons
TCE	Trichloroethene
Union Oil	Union Oil Company of California
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UEL	Upper explosive limit
VOCs	Volatile organic compounds
VCP	Voluntary Cleanup Program
WRD	Water Replenishment District of Southern California

Executive Summary

This Executive Summary provides a brief overview of the findings of this Phase I Environmental Site Assessment (Phase I ESA). Although the Executive Summary is an integral part of a report, it does not substitute for reading the entire report or the appended or referenced documents in order to fully understand the findings and potential environmental concerns associated with the Site.

InSite Property Group (InSite, the User) retained Roux Associates, Inc. (Roux) to perform this Phase I ESA of the vacant property located at 3701 Pacific Place in Long Beach, California; The parcels are identified by Los Angeles Assessor's Parcel Numbers (APNs) 7140-014-019 (subsequently identified as Parcel 1), 7140-014-032 (Parcel 2), and 7140-014-033 (Parcel 3). The Site location is shown in Figure 1 and the Site and vicinity are shown in Figure 2. Roux performed this Phase I ESA in general accordance with the American Society for Testing Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13), the California Land Re-Use and Revitalization Act of 2005 (CLRRA, Health & Safety Code Sections 25395.60 *et seq.*), the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA,, 42 USC Sections 9601 *et seq.*) and the "All Appropriate Inquiries" standards (AAI Standards) which the U.S. Environmental Protection Agency enacted (40 CFR Part 312; *see* CLRRA, Health & Safety Code Section 25395.65) in an effort to identify, to the extent feasible, the presence of recognized environmental conditions (RECs) with respect to the Site as defined in ASTM E1527-13 and to enable InSite to qualify as a *bona fide* purchaser (BFP) under CLRRA (*see* Health & Safety Code Sections 25395.69 and 25395.80) and as a *bona fide* prospective purchaser (BFPP) under CERCLA (*see* 42 USC Section 9601(35)(B)).

The Site is located in a mixed commercial and residential area within Long Beach, California. According to Los Angeles County Assessor data, the area of Parcel 1 is 9.75 acres, the area of Parcel 2 (located east of Parcel 1) is 2.96 acres, and the area of Parcel 3 (located east of Parcel 2) is 0.98 acres, acres for a combined total of 13.69 acres. At the time of Site reconnaissance, the Site was vacant, having previously been occupied by a golf learning facility. The former golf learning facility structures had been removed by the time of Site reconnaissance with the exception of a canopy toward the southeastern corner of the Site. An asphalt-paved parking area was also observed in the southeastern corner of the Site and a concrete sidewalk runs beneath the canopy and transects the southern portion of the Site. A dilapidated stone wall was present toward the northern corner of the Site. A billboard was observed in the southwestern corner of the Site, along the adjacent Interstate 405 (San Diego) Freeway (I-405). Remnants of the fencing system associated with the former golf driving range were visible along the western and northern boundaries. Unpaved walkways and access roads run along the western and northeastern borders of the Site. The majority of the Site was overgrown with significant amounts of unmanaged vegetation.

On August 2, 2019, Roux personnel visually assessed the Site for potential RECs, including, but not limited to, underground storage tanks (USTs), aboveground storage tanks (ASTs), polychlorinated biphenyl (PCB)-containing equipment, hazardous materials storage or handling areas, containerized or bulk wastes, and visual indications of impacted soil.

Roux also performed a records review in an effort to identify RECs in connection with the Site. This records review addressed the Site and surrounding properties. Roux reviewed commercially and publicly available records associated with the Site and nearby properties to assess potential concerns associated with the migration of hazardous substances. The records review also included reasonably ascertainable historical

data, which can be helpful in identifying the past uses of the Site and surrounding areas, as it may relate to the environmental condition of the Site.

Roux performed interviews and/or file reviews with various government agencies, the current owners of the Site, and other parties with possible knowledge of the Site and surrounding properties in an effort to identify current and past uses of the Site and surrounding areas, as they may relate to the environmental condition of the Site. Our findings based on these interviews and file reviews follow.

ASTM E 1527-13 defines a REC as:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

A Controlled Recognized Environmental Condition (cREC) as:

> "A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

And a Historical Recognized Environmental Condition (hREC) as:

> "A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional (EP) must determine whether the past release is a *recognized* environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

Based on the information obtained through the performance of this Phase I ESA, Roux identified the following RECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the RECs are shown in Figure 2.

- **REC 1 – Former Oil Sumps.** According to historical sources, the Site was formerly used as an oil brine water treatment facility beginning in 1926 for nearby and on-Site oil production activities. Oil brine was pumped to evaporation and treatment ponds (oil sumps) on the Site; the majority of the Site was used as a treatment sump. Water was allowed to evaporate from the brine or seep into the subsurface below the sumps leaving behind a sludge. Following evaporation, the remaining sludge was left in the sumps or dumped elsewhere. Evaporation operations reportedly ceased at the Site in

the mid-1950s. No information was found indicating how the sumps were abandoned and whether or not fill was imported. Although numerous investigations and limited land farming activities have been conducted at the Site, no large-scale remediation appears to have been completed as of this report date. Petroleum hydrocarbon, metal (arsenic and lead) impacts have been identified across the Site in soil with limited semi-volatile organic compound (SVOC) impacts also detected. Volatile organic compounds (VOCs) tetrachloroethene (PCE), trichloroethene (TCE), benzene, and methane have been in soil vapor detected across the Site.

- **REC 2 – Former Oil Wells.** According to California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) records, six oil wells were historically located on-Site and five of the six wells produced oil. The wells were reportedly drilled between 1937 and 1981. All six wells were abandoned between 1981 and 2014 according to DOGGR standards at their respective times of abandonment. Drilling of wells such as this are known to generate drill cuttings and drilling mud that could be impacted by hydrocarbons encountered in the subsurface. Operation of oil wells is also known to cause near-surface hydrocarbon impacts to soil and soil vapor.

- **REC 3 – Nearby Off-Site Historical Oil Development.** According to historical sources, the Site vicinity, including adjoining properties, has been historically used for oil development activities including oil production wells, evaporation and treatment ponds (sumps), and ASTs. The oil development operations in the Site vicinity are likely to have produced hydrocarbon impacts to the subsurface with the potential to migrate on Site and comingle with impacts originating on Site. Prior investigations at the Site and nearby properties indicate that regional groundwater in the area has been degraded at least in part due to the historical oil development activities in the vicinity of the Site Total dissolved solid (TDS) impacts have been identified in the Gaspur aquifer, approximately 50 to 70 feet below ground surface (bgs), in the Site vicinity.

Roux did not identify cRECs or hRECs in connection with the current or historical operations at the Site or adjacent properties.

The term recognized environmental condition is not intended to include de minimis conditions that generally do 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. Other environmental features (OEFs) are environmental conditions that do not meet the definition of a REC, but which may warrant mention in a comprehensive Phase I ESA. Based on this Phase I ESA, Roux identified the following OEFs. To the extent possible, the locations of the OEFs are shown in Figure 2. To minimize possible confusion, the REC and OEF identification numbers are sequential.

- **OEF 4 – Commercial Pesticide and Herbicide Use.** The former driving range / golf learning center operations may have involved the use of pesticides and herbicides to control and optimize vegetation typical of golf course facilities. No documentation was found confirming the use of pesticides or herbicides on-Site.

- **OEF 5 – Pressurized Oil Pipelines.** Based on the National Pipeline Mapping System (NPMS) Public View database, it is possible that two active crude pipelines are located within 50 feet of the Site and may cross the southeastern corner of the Site. Two additional petroleum/crude pipelines were identified within 1,000 feet of the Site. No indication of a release from any of the pipelines was identified by Roux in the preparation of this Phase I ESA.

- **OEF 6 – Adjoining Off-Site Railroad Tracks.** According to historical topographic maps, the northeastern adjoining railroad was constructed by 1924. Although the rail is currently used as a Los Angeles Metro passenger rail line, historical topographic maps identified the railroad as a Pacific Electric line in 1924 and later as a Southern Pacific line through 1987. The materials transported along the railroad historically is unknown. Both the presence of these railroad lines and the materials transported along the railroad lines may have potentially impacted the subsurface at the Site. Railroad ties have historically been and continue to be treated with copper arsenate, creosote (which contains polycyclic aromatic hydrocarbons, or PAHs), PCBs, pentachlorophenol (which also contains dioxins), and copper naphthalene. In addition to these chemicals, railway transportation is associated with heavy metals, herbicides, pesticides, VOCs, and petroleum product impacts. No evidence of a likely release associated with the rail lines was identified during the course of this Phase I ESA.

- **OEF 7 – Adjoining Off-Site Interstate Freeway.** The Site is bordered to the south by the I-405 San Diego Freeway, the off-ramp of which adjoins the Site. It is not uncommon for near-surface soils at properties in close proximity to freeways that operated in the era of leaded gasoline to be impacted by aerially deposited lead. No documentation of lead contamination in the area adjoining I-405 was identified during the course of this Phase I ESA.

- **OEF 8 – On-Site and Nearby Transient Activity.** Transient encampments were observed along the adjoining Los Angeles River and according to the Site personnel, transient activity was recently observed on the Site. Some of the domestic refuse observed on-Site may be associated with the reported transient activity. Although not observed during Site reconnaissance, used and discarded hypodermic needles are often present in areas with high transient activity.

- **OEF 9 – Unknown Fill Material.** According to an interview with Site owner, Mark Pender, soil was imported to fill the on-Site oil sumps in or around the 1950s and the fill may have originated from a nearby California Department of Transportation (CalTrans) freeway project. Subsequently, according to Mr. Pender, approximately 80,000 cubic yards (CY) of sandy soil was imported from dredging operations at the Los Angeles River. Finally, another site owner, Steve Sukut, indicated that additional fill material was imported to the Site to facilitate grading for the golf learning facility. It is possible that the fill materials may be impacted, particularly with heavy metals or total petroleum hydrocarbons (TPH).

1. Introduction

As noted, Roux completed this Phase I ESA Site in accordance with ASTM E1527-13, California Land Reuse and Revitalization Act (CLRRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the All Appropriate Inquiries (AAI) Standards to identify, to the extent feasible, the presence of RECs on the Site and to enable InSite to qualify as a *bona fide* purchaser (BFP) under CLRRA and as a *bona fide* prospective purchaser (BFPP) under CERCLA. The Site location is shown in Figure 1 and the Site and vicinity are shown in Figure 2.

The following sections of this report present our Phase I ESA findings and conclusions. A glossary containing terms and definitions presented in ASTM E1527-13 is included in Appendix A – Glossary of Terms. Other appendices presented at the end of the report include historical topographic maps, historical aerial photographs, regulatory records review documentation, applicable historical records, and personnel qualifications.

1.1 Purpose

The purpose of this Phase I ESA is to conduct an investigation of the Site in accordance with ASTM E1527-13, CLRRA, CERCLA and the AAI Standards to identify, to the extent feasible, the presence of RECs on the Site and to enable InSite to qualify as a BFP under CLRRA and as a BFPP under CERCLA.

1.2 Scope of Services

The scope of services for this Phase I ESA included, but was not limited to, the activities listed below.

- A review of reasonably ascertainable and practicably reviewable historical sources, including topographic maps, historical aerial photographs, city directories, recorded land title records, building, assessors, and fire department records, for permits, citations, and reports connected to the Site to investigate past Site conditions to the extent such sources were practicably reviewable and publicly available within reasonable time and cost;

- A review of other government records including specific government lists pursuant to ASTM Standard E 1527-13 regarding environmental activities for the Site and local area properties;

- A visual inspection by an environmental professional to investigate the current use of the Site and to identify environmental concerns including but not limited to, the presence of hazardous substances or petroleum products, wastes, underground storage tanks (USTs), aboveground storage tanks (ASTs), or other environmental concerns;

- A review and assessment of commonly known or other reasonably ascertainable information;

- An evaluation of the degree obviousness of the presence and ability to detect the presence hazardous substances on the Site;

- A search for filed or recorded environmental cleanup liens;

- Interviews with available representatives of the owner of the Site, occupants, and local government officials by an environmental professional; and

- Preparation of this Phase I ESA report.

Roux initiated this Phase I ESA pursuant to receipt of written authorization to proceed on March 26, 2019.

1.3 Standard of Care

Roux conducted this Phase I ESA using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized, unless the scope of services or the methods used were later modified, in writing, and accepted by all parties prior to performance. Roux conducted this Phase I ESA in accordance with the AAI Standards and generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and under similar conditions of time and accessibility of improvements and information. No other representations, expressed or implied, and no warranty or guarantee is included or intended to be part of this Phase I ESA.

Please note that the scope of services performed in execution of this assessment may not be appropriate to satisfy the needs of other parties. We, therefore, are not responsible for independent conclusions, opinions, or recommendations of others based on our assessment. Furthermore, this Phase I ESA relates to the environmental conditions of the Site and does not address issues raised in transactions such as business risk, purchase of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other offsite liabilities.

Additionally, the findings of this Phase I ESA are based on Roux's observations, inquiries, and historical research using reasonably ascertainable and practically reviewable information obtained within reasonable time and cost constraints. Roux does not represent that this Phase I ESA is an exhaustive investigation that reflects the findings of all of the information available for the Site, nor is it representative of future Site conditions. If additional information is generated from the Site, it should be provided to Roux so that we may evaluate its impact on our conclusions. As such, activities or episodes that transpire subsequent to this Phase I ESA are not considered in this assessment. It is not intended that a Phase I ESA in accordance with ASTM E1527-13 be an exhaustive assessment of a property nor can it wholly eliminate uncertainty regarding the potential for RECs in connection with a property.

1.4 Assumptions

This Phase I ESA Report, including the exhibits attached hereto, describes the results of Roux's investigation to identify the presence of RECs connected with the Site in accordance with, among other standards as noted above, the AAI Standards and ASTM E1527-13. The preamble to the amended AAI Standards states:

> *The Environmental Protection Agency (EPA) today is taking final action to amend the standards and practices for conducting all appropriate inquiries under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to reference a standard practice recently made available by ASTM International, a widely recognized standards development organization. Specifically, this final rule amends the "All Appropriate Inquiries Rule" at 40 CFR Part 312 to reference ASTM International's E1527–13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site*

Assessment Process'' and make clear that persons conducting all appropriate inquiries may use the procedures included in this standard to comply with the All Appropriate Inquiries Rule[1].

One of the requirements that a person acquiring real property must meet in order to qualify as a BFP under CLRRA or the innocent landowner, contiguous owner, or BFPP defense to liability under CERCLA is that person must conduct all appropriate inquiries into the previous ownership and uses of the property in conformance with the AAI Standards (or the ASTM E1527-13) prior to acquisition of the property. The User has acknowledged that, under the AAI Standards, Roux's performance of this Phase I ESA in accordance with ASTM E1527-13 will not alone result in the User satisfying all requirements of the AAI Standards and will not in itself qualify the User as a BFP under CLRRA or provide a defense to CERCLA liability. The User has acknowledged that the AAI Standards also require that a prospective purchaser undertake certain additional inquiries and post-acquisition activities to satisfy the AAI Standards. Accordingly, Roux makes no guarantees or warranties, expressed or implied, regarding this Phase I ESA, including without limitation, that this Phase I ESA will qualify the User as a BFP under CLRRA or for a defense to CERCLA liability.

Roux has performed this Phase I ESA in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Professional judgments expressed herein are based on the facts currently available to Roux.

The AAI Standards require, and the conclusions and recommendations stated herein represent, the application of a variety of engineering and technical disciplines to material facts and conditions associated with the Site. As such, these conclusions and recommendations are based on subjective interpretations and the exercise of discretion based on the facts available to Roux and conditions at the time of the performance of this Phase I ESA. Many of these facts and conditions are subject to change over time. Accordingly, the conclusions and recommendations must be considered within this context.

The User has agreed that Roux shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this Phase I ESA was performed. To the extent practicable, Roux has identified data gaps, and has evaluated the potential significance of such data gaps. Recommendations to address those data gaps are presented herein and are based on the data available at the time of the performance of this Phase I ESA. Implementation of the recommendations may not fully address the data gaps, and the information obtained from execution of those recommendations may alter and/or modify the interpretation of the Site conditions and conclusions, herein. This Phase I ESA does not include consideration of matters specifically excluded by ASTM E1527-13, including but not limited to, asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, and mold unless specifically identified herein.

Roux has not collected any soil and/or groundwater samples on the Site in connection with preparing this Phase I ESA, and is relying on information presented by others, often in preliminary, draft, or verbal form. By referencing this information, Roux does not accept responsibility for the accuracy of the underlying data, sampling methods, laboratory analysis, or documentation.

This Phase I ESA should not be considered a legal interpretation of existing environmental laws and regulations. This Phase I ESA was conducted with a reasonable degree of inquiry to identify RECs, but

[1] Federal Register: December 30, 2013 (Volume 78, Number 250) Page 79319

uncertainty is not eliminated. No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. The Phase I ESA process is intended to reduce, but not eliminate, the uncertainty involved with identifying RECs.

This Phase I ESA is not an appraisal or value judgment of the Site. The User has agreed that Roux shall not be liable for any use of this Phase I ESA Report as an appraisal or value judgment of the Site.

This Phase I ESA has been prepared for the exclusive use of the User for specific application to the Site covered by this Phase I ESA. The User has agreed that any third-party use of this Phase I ESA Report, upon disclosure by the User, is the sole responsibility and at the sole liability of the User.

1.5 User Reliance

This report is confidential and has been prepared at direction of Counsel for the exclusive use of the User. No additional parties may use the information contained in this report without obtaining the written permission of Roux or the User. Roux's duties and obligations extend to the User and to no other party. Roux's duties and obligations to the User are not transferable to persons, corporations, or organizations without the express written consent of the User and Roux. The User may rely upon the information provided in this Phase I ESA report for a period of 180 days from the date of issue. After 180 days, this Phase I ESA should be updated in accordance with ASTM guidance. Roux will not be liable for any consequential damages arising from the use of this report for other than its intended purpose, for use of this report beyond 180 days of its issue date, or from unauthorized use by third parties.

This Phase I ESA report must be read and interpreted as a whole and can only be considered representative of the conditions of the Site as of the date of our site reconnaissance described herein. Roux makes no representation whatsoever concerning the condition of the Site beyond the date of our site reconnaissance described herein. Individual sections and appendices of this report are dependent on the balance of this report, and on the terms, conditions, and stipulations contained in the proposal and written amendments accepted by Roux.

2. Site Description

2.1 Location and Legal Description

The Site consists of three contiguous parcels located in the Los Cerritos neighborhood of Long Beach, California (Figure 1). The parcels are identified by Los Angeles Assessor's Parcel Numbers (APNs) 7140-014-019 (subsequently identified as Parcel 1), 7140-014-032 (Parcel 2), and 7140-014-033 (Parcel 3). According to Los Angeles County Assessor data, the area of Parcel 1 is 9.75 acres, the area of Parcel 2 (located east of Parcel 1) is 2.96 acres, and the area of Parcel 3 (located east of Parcel 2) is 0.98 acres, acres for a combined total of 13.69 acres. The Site is bounded by a railway to the northeast, the Interstate 405 San Diego Freeway (I-405) to the south and by the Los Angeles River to the west (Figure 2).

2.2 Site and Vicinity General Characteristics

As depicted in the Long Beach, California (2012) 7.5-minute quadrangle topographic map published by the United States Geological Survey (USGS), the elevation of the Site is approximately 40 to 50 feet above mean sea level (msl). The topography of the Site and surrounding areas is varied and consists of small rolling hill-type features; the northwestern corner of the Site sits at an elevation approximately 10 to 15 feet lower than the majority of the Site. At the time of Site reconnaissance, the Site was vacant, having previously been occupied by a golf learning facility. The former golf learning facility structures had been removed by the time of Site reconnaissance with the exception of a canopy toward the southeastern corner of the Site. An asphalt-paved parking area was also observed in the southeastern corner of the Site and a concrete sidewalk runs beneath the canopy and transects the southern portion of the Site. A dilapidated stone wall was present toward the northern corner of the Site. A billboard was observed in the southwestern corner of the Site, along the adjacent I-405. Remnants of the fencing system associated with the former golf driving range were visible along the western and northern boundaries. Unpaved walkways and access roads run along the western and northeastern borders of the Site. The majority of the Site was overgrown with significant amounts of unmanaged vegetation.

2.3 Past and Current Use of the Site

Based on Roux's review of historical sources and previous reports, the Site was undeveloped until at least 1896. By 1926, the Site was occupied by Oil Operators, Inc. (Oil Operators), an oil brine water treatment facility and the majority of the Site was used as a treatment sump/pond. Oil brine was pumped to sumps on the Oil Operators facility and water was allowed to evaporate from the brine or seep into the subsurface below the sumps leaving behind a sludge. Following evaporation, the remaining sludge was left in the sumps or dumped elsewhere. Evaporation operations ceased at the Site in the mid-1950s. Active oil wells were located on the Site from at least 1951 through 1964. Remnants of the former on-Site sumps were present on the Site until approximately 1989, by which time the Site was apparently vacated. The Site was developed as a golf facility by 2002. As noted above, the Site was vacant at the time of the Roux reconnaissance. A detailed description of the current condition of the Site is provided in Section 4.2.

2.4 Physical Setting

Roux obtained and reviewed published, reasonably ascertainable information concerning the physical setting of the Site. The following is a summary of our review of those physical setting sources.

2.4.1 Surface Water and Drainage

A section of the Los Angeles River flows approximately 200 feet to the west of the Site at its closest approach. The Los Angeles River is a concrete-lined channel that runs generally north to south in the Site vicinity and discharges into the Pacific Ocean at the San Pedro Bay. No other significant surface water features were identified within the immediate Site vicinity.

2.4.2 Physiographic Setting

According to prior investigations, the Site lies within the southern portion of the Coastal Plain of Los Angeles County, which gently slopes down to the south-southwest. The Site is located within the West Coast Basin which is divided into four structural blocks delineated by zones of faulting and flexure. It is bounded on the north by the Ballona Escarpment, on the east by the Newport-Inglewood fault zone (NIFZ), and on the south and west by the Pacific Ocean and consolidated rocks of the Palos Verdes Hills (Groundwater Bulletin 118, February 2004). The Site is located along the NIFZ, which forms the boundary between the Central and West Coast subbasins and acts as a partial barrier to groundwater movement in the area. The NIFZ offsets, thins, and folds many of the aquifers. Due to the proximity of the Site to the NIFZ, aquifer depths, thicknesses, and potential for interconnections may vary significantly across the Site. The West Coast Basin is underlain by a series of marine and continental deposits ranging in age from Holocene to Middle Miocene. These deposits, which are thought to reach a cumulative thickness of up to 13,000 feet in some areas, overlie a basement complex of pre-Cretaceous igneous and metamorphic rock (LFR, 2009).

2.4.3 Regional and Local Geology

According to prior investigations, the Site is located within a transition area of the Peninsular Ranges and Transverse Range geomorphic provinces. The primary geologic feature in the vicinity of the Site is the NIFZ, which traverses the Site in a northwest-southeast direction. The term fault zone refers to the occurrence of a series of interconnected fault planes, rather than a single defining fault plane. Tertiary and younger sediments are structurally folded and deformed along the NIFZ. The Long Beach Anticline is expressed at Signal Hill and is composed of Middle Miocene through Pleistocene and Holocene sediments resting unconformably on the Late Cretaceous to Late Jurassic Catalina Schist (LFR, 2009).

Soil beneath the Site reportedly consists of sand, silt, and clay of variable thicknesses. The soil is underlain by a thin veneer of Recent alluvium, alluvial sediments of the Late Pleistocene-age Lakewood Formation, and sediments of the Early Pleistocene-age San Pedro Formation. The thickness of the sedimentary section underlying this area is approximately 12,000 feet (Dames & Moore 1988). The Site is located within the active Long Beach Oil Field. According to agency records and prior investigations, six oil wells are located on the Site (LFR, 2009).

2.4.4 Regional and Local Hydrogeology

The Bellflower aquitard immediately underlies the Site at approximately 5 to 50 feet bgs. Identified aquifers beneath the Site in order of increasing depth are the Lakewood Formation (which contains the Gaspur and Gage aquifers) and the San Pedro Formation (which contains the Lynwood, Silverado, and Sunnyside aquifers).

The Gaspur aquifer is present beneath the Site from approximately 50 to 70 feet bgs as sand and gravel. Shallow groundwater was encountered at 8 feet bgs in one boring located in the central portion of the Site during 1986 soil sampling activities; however, the presence of shallow groundwater was presumed to be a

localized perched condition. During December 2007 monitoring activities, the depth to groundwater beneath the Site ranged from 32.6 to 49.32 feet bgs, with a shallow gradient flowing in a southerly direction. The groundwater encountered during the December 2007 monitoring activities was believed to be the Gaspur aquifer (LFR, 2009).

The Gage aquifer has a base at approximately 180 feet bgs and has been found to be approximately 35 feet thick in the vicinity of the Site. Deposits in the Gage aquifer reportedly vary from silty sand to minor gravel. Groundwater in both aquifers of the Lakewood Formation has been reported to be of inferior chemical quality (LFR, 2009).

The lower Pleistocene San Pedro Formation unconformably underlies the Lakewood Formation and contains numerous aquifers of varying quality. The Lynwood aquifer has a base at approximately 600 feet bgs and is approximately 400 feet in thickness. According to data from the Water Replenishment District of Southern California (WRD), the shallowest contact with the Lynwood aquifer in the Site vicinity was approximately 280 feet bgs (WRD, 2018). The Silverado aquifer joins the Lynwood aquifer at approximately 600 feet bgs and continues to over 1,000 feet bgs. The deep Silverado aquifer is the only significant water-producing zone; the City of Long Beach obtains groundwater from more than 1,000 feet bgs within it (LFR, 2009).

Although groundwater underlying the Site is considered of beneficial use by the Regional Water Quality Control Board (RWQCB), regional groundwater quality is generally poor due to salt water intrusion and industrial waste disposal. Particularly in the vicinity of the Site, historic oil and gas production activities have contributed to poor groundwater quality. No active drinking water production wells were identified within one mile of the Site (LFR, 2009).

3. Sources of Information

Sources of information utilized in preparing this Phase I ESA report included historical topographic maps; historical aerial photographs; in-person reconnaissance of the Site and adjoining properties; discussions with User and tenant personnel; a review of records available at selected local and state regulatory agencies; a review of databases maintained by local, state, and federal government agencies; and other records available from commercial and online sources.

3.1 Topographic Maps

To help understand the history of the Site and past land uses, copies of historical U.S. Geological Survey topographic maps published between 1896 and 2012 were obtained from Environmental Data Resources, Inc. (EDR), of Shelton, Connecticut. These maps have been included, in reverse chronological order as Appendix B.

3.2 Aerial Photographs

To supplement the information from the topographic maps, a "Decade Package" of aerial photographs taken between 1928 and 2016 was obtained from EDR. The aerial photographs obtained by EDR have been consolidated and included, in reverse chronological order, as Appendix C.

3.3 Fire Insurance Maps

At Roux's request, EDR conducted a search for fire insurance map coverage of the Site. EDR indicated that no fire insurance map coverage was available for the Site. A copy of the Certified Sanborn Map Report is included as Appendix D to this report.

3.4 City Directories

City directories have been published for cities and towns across the United States since the 1700s. Originally a list of residents, the city directories subsequently developed into a useful tool for locating individuals or businesses in certain areas. A copy of "The EDR-City Directory Abstract" is included as Appendix E to this report.

3.5 Government Databases

To document potential sources of contamination at or near the Site, a government records search was conducted by EDR. The search included local, state, and federal records for the Site and for other properties within ASTM-standard distances of the Site. The records search is summarized in Section 7.0 and a copy of "The EDR Radius Map™ Report with GeoCheck®," dated July 26, 2019, is included in its entirety as Appendix F. As recommended by ASTM, all but a few of the databases searched were "current," i.e., had been updated within 90 days prior to the search date.

3.6 Site Reconnaissance

On August 2, 2019, Roux personnel conducted reconnaissance of the Site. During the Site reconnaissance, Roux were unaccompanied. A detailed description of the reconnaissance is provided in Section 4.2. Selected photographs taken during the reconnaissance have been annotated and are included in Appendix G.

3.7 Information from Regulatory Agencies

Roux contacted selected federal, state, and local regulatory agencies to determine whether they have potentially relevant environmental records pertaining to the Site, including in particular records relating to USTs, ASTs, environmental permits, enforcement orders, reports and correspondence related to Site investigation/assessment, soil sampling, monitoring, clean up/remediation, removal actions, closures, or any records related to conditions in air, soil, surface water, groundwater, or other environmental media. The agencies contacted and Roux's interactions with them are documented below. Roux contacted or reviewed information from the following agencies:

- Federal;
    - United States Environmental Protection Agency (USEPA),
    - National Pipeline Mapping System (NPMS),
- State;
    - State Water Resources Control Board (SWRCB): GeoTracker,
    - SWRCB: Storm Water Multiple Application and Report Tracking System (SMARTS),
    - Department of Toxic Substances Control (DTSC),
    - DTSC: EnviroStor,
    - DTSC: Hazardous Waste Tracking System (HWTS),
    - California Air Resources Board (CARB),
    - California Office of Environmental Health Hazard Assessment (OEHHA),
    - California Environmental protection Agency (CalEPA): CalRecycle,
    - CalRecycle: Solid Waste Information System (SWIS),
    - State of California Department of Conservation: Division of Oil, Gas and Geothermal Resources (DOGGR),
- County/Regional;
    - Los Angeles Regional Water Quality Control Board (LARWQCB),
    - South Coast Air Quality Management District (SCAQMD),
    - Los Angeles County Fire Department (LACoFD): Health Hazardous Materials Division (HHMD),
    - Los Angeles County Department of Public Works (LACDPW),
    - LACDPW: Building & Safety Department,
    - LACDPW: Geotechnical and Materials Engineering Division (GMED),
    - LACDPW: Solid Waste Information Management System (SWIMS),
    - County of Los Angeles Sanitation District (LACSD), and

- City/Local;
    - City of Long Beach- Department of Health and Human Services,
    - City of Long Beach -Environmental Health Bureau,
    - Long Beach Fire Department: Certified Unified Program Agency (CUPA),
    - City of Long Beach – Development Services Department.

The following sections summarize Roux's review of those records. Copies of the records are provided in Appendix I – Regulatory Records Documentation.

3.7.1 Federal Agencies

3.7.1.1 *United States EPA*

Roux submitted a FOIA request on July 25, 2019 and received the USEPA tracking number EPA-HQ-2019-007593. As of this report date, a response has not been received.

Roux also queried the online MyProperty database on July 24, 2019. One listing associated with the Site was identified as follows "Long Beach Industrial Park (USEPA Registry ID- 110033607899), 3701 Pacific Place, Long Beach CA. Information system- California Department of Toxic Substances Control- Envirostor System."

3.7.1.2 *NPMS*

Roux queried the online NPMS Public View database on July 24, 2019. The following two pipelines cross the southeastern corner of the Site.

- An active (unfilled) crude pipeline (pipeline ID: 447) operated by Crimson Pipeline L.P. (operator ID: 32103). The pipeline is part of the East Crude (Line 700 Pipeline) system and is 7.55 miles total in length.
- An active (unfilled) crude pipeline (pipeline ID: 923) operated by Crimson Pipeline L.P. (operator ID: 32103). The pipeline is part of the Norwalk / Imperial Willow / Seabright system and is 18.19 miles total in length.

Two additional pipelines are located approximately 1,000 feet from the Site to the southeast.

- An active (filled) pipeline containing "non-HVL product" (pipeline ID: 034AC) operated by Tesoro SoCal Pipeline Company LLC (operator ID 39013). "Non-HVL product" indicates a refined and/or petroleum product that is not a highly volatile liquid (HVL). The pipeline is part of the Los Angeles (LA) Basin Pipelines system and is 2.23 miles total in length.
- An active (filled) crude oil pipeline (pipeline ID: 032E) operated by Tesoro SoCal Pipeline Company LLC (operator ID 39013). The pipeline is part of the LA Basin Pipelines system and is 5.83 miles total in length.

No information regarding environmental concerns or releases associated with the pipelines was identified during the review of historical sources or agency records. Any releases associated with a pipeline would be the responsibility of the respective pipeline operator. One pipeline located greater than 1,000 feet away from the Site was identified in the regulatory database as a release case; refer to Section 7.1.3 for further discussion. Roux are not aware of any spills, leaks, or other releases associated with the subsurface oil

pipelines located within or adjacent to the Site. On this basis, the presence of the oil pipelines is not considered a REC for Phase I ESA purposes.

3.7.2 State Agencies

3.7.2.1 *SWQCB: GeoTracker*

Roux queried the online SWRCB GeoTracker database on July 24, 2019. The following release cases were identified within 1,000 feet of the Site.

- Long Beach Industrial Park (Former Oil Operators; the Site), 3701 Pacific Place was listed as an active DTSC Voluntary Cleanup case.
- Long Beach Industrial Park, 4021 Pacific Place was listed as an inactive cleanup program case.
- Oil Operators Inc., 712 West Baker St, was listed as an active cleanup program case as well as a DTSC Evaluation case.
- BP Pipeline/Arco, Golden Avenue, was listed as an active cleanup program case.

3.7.2.2 *SWQCB: SMARTS*

Roux queried the online SWRCB SMARTS database on July 24, 2019. One listing was found in the vicinity of the Site. Metro Blue Line Track and System Refurbishment, North Pacific Place, Long Beach California 90806, was identified as an active construction facility as of February 21, 2019. No evidence of a release or other environment concern was noted at the Metro Blue Line Track and System Refurbishment facility.

3.7.2.3 *DTSC*

Roux submitted a Public Records Request form to DTSC offices in Chatsworth, Cypress, and Sacramento via email on July 25, 2019. The Cypress DTSC responded on August 1, 2019 with one listing as follows "Long Beach Industrial Park (Oil Operators; the Site)". The Cypress DTSC stated that the majority of information pertaining to the Site was provided on the EnviroStor website. The Sacramento DTSC responded on July 26, 2019 that no listings associated with the Site were identified.

3.7.2.4 *DTSC: EnviroStor*

Roux queried the online DTSC EnviroStor database on July 24, 2019. The Site was identified on the DTSC EnviroStor database along with two other facilities within 1,000 feet. Refer to Section 7.1 for further discussion.

- Long Beach Industrial Park (Former Oil Operators; the Site), 3701 Pacific Place was listed as an active DTSC Voluntary Cleanup case.
- Oil Operators Inc., 712 West Baker St, was listed as an active cleanup program case as well as a DTSC Evaluation case.

3.7.2.5 *DTSC: HWTS*

Roux queried the online DTSC HWTS database on July 24, 2019. One listing associated with the Site was identified.

- According to the USEPA ID Profile, the name of the generator was identified as C.R.G. Properties and the generator ID number was CAC002572604. In 2004, 0.417 tons of "off-spec, aged, or surplus inorganics" (California waste code 141) was generated.

No information regarding a release or mishandling of the hazardous waste was provided on the DTSC HWTS database.

3.7.2.6 *CARB*

Roux submitted a Public Records Request via email on July 25, 2019. CARB's July 30, 2019 response indicated that they did not have any documents pertaining to the site.

3.7.2.7 *California OEHHA*

Roux submitted a Public Records Request via email on July 25, 2019. OEHHA responded on August 2, 2019 and stated that no records for the Site were identified.

3.7.2.8 *CalEPA: CalRecycle*

Roux submitted a Public Records Request via email on July 25, 2019. As of this report date, a response has not been received from the agency.

3.7.2.9 *CalRecycle: SWIS*

Roux queried the online SWIS Facility and Site database on July 24, 2019. The nearest SWIS facility was identified as California Department of Transportation (Caltrans) Long Beach, W LA River #2 (33.83167, -118.20572), located approximately 0.4 miles west of the Site across the Los Angeles River. The facility is classified as an unpermitted, closed solid waste disposal facility (unknown closure date). Based on the distance from the Site, this facility was not identified as a significant environmental concern.

3.7.2.10 *DOGGR*

Roux queried the online DOGGR database on August 12, 2019. According to the DOGGR database as well as other agency and historical sources, the Site is located within the Long Beach Oil Field, an area with significant oil and gas development activity. A total of 28 wells were identified as either on the Site or within approximately 1,000 feet of the Site. Three were identified as core holes and the rest were identified as oil and gas wells. All of the wells have reportedly been plugged. Six wells are reportedly located within the Site boundary and the other 22 wells were located off-Site.

API Number	Well Number	Type	Status	Operator	Location
0403706415	8-4	Oil & Gas	Plugged	CRG Properties Ltd.	**On-Site**

API Number	Well Number	Type	Status	Operator	Location
0403706496	8-3	Oil & Gas	Plugged	CRG Properties Ltd.	**On-Site**
0403709792	8-1	Oil & Gas	Plugged	Pacific Energy Resources Ltd.	**On-Site**
0403709793	8-2	Oil & Gas	Plugged	Pacific Energy Resources Ltd.	**On-Site**
0403722295	8-5	Oil & Gas	Plugged	Sun Exploration & Production Co.	**On-Site**
0403722512	8-7	Oil & Gas	Plugged	CRG Properties Ltd.	**On-Site**
0403709789	6-2	Oil & Gas	Plugged	Pacific Energy Resources Ltd.	Off-Site
0403700392	9-4	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403700142	9-5	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403700393	9-6	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403700397	5-2	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403708855	4	Oil & Gas	Plugged	State of California	Off-Site
0403708920	4	Oil & Gas	Plugged	Atlantic Richfield Company	Off-Site
0403708921	5	Oil & Gas	Plugged	Atlantic Richfield Company	Off-Site
0403709248	1	Oil & Gas	Plugged	Berry-Loukonen Ltd.	Off-Site
0403709354	1	Oil & Gas	Plugged	Delaney Petroleum Corp.	Off-Site
0403709553	1	Oil & Gas	Plugged	State of California	Off-Site
0304709554	1	Oil & Gas	Plugged	State of California	Off-Site
0403709788	6-1	Oil & Gas	Plugged	Pacific Energy Resources Ltd.	Off-Site
0403709791	9-3	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403709795	5-1	Oil & Gas	Plugged	Pacific Energy Resources Ltd.	Off-Site
0403709796	5-3	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403709797	5-4	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site
0403711306	1	Oil & Gas	Plugged	Phillips Petroleum Company	Off-Site
0403713525	9-2	Oil & Gas	Plugged	CRG Properties Ltd.	Off-Site

API Number	Well Number	Type	Status	Operator	Location
0403725193	2A	Core Hole	Plugged	Shell Western E&P Inc.	Off-Site
0403725195	4	Core Hole	Plugged	Shell Western E&P Inc.	Off-Site
0403725197	6	Core Hole	Plugged	Shell Western E&P Inc.	Off-Site

Records on the DOGGR website were reviewed for the six wells located on the Site. Based on the records reviewed, the wells were drilled between 1937 and 1981 and five of the six on-Site wells were used for oil production. All six wells were reportedly abandoned between 1981 and 2014 in accordance with the DOGGR standards at their respective times of abandonment. Additional well details obtained from DOGGR records are provided below. Information has been incorporated into other sections of the report as appropriate, particularly Section 4.1.

- **Well API: 03706415, Well Number: 8-4** (Henceforth identified as Well 8-4)

  According to DOGGR records, Well 8-4 was located toward the northern corner of the Site (see Figure 2) and drilled circa December 1937 by the Union Oil Company of California (Union Oil). Oil was identified in the well and production occurred intermittently through at least 1967 with several ownership changes. A formal *Order to Plug and Abandon Wells and Restore Lease Conditions* was issued by DOGGR to another entity, CRG Properties, Ltd. (CRG) on October 18, 2012. According to a letter from DOGGR dated August 28, 2015, surface plugging occurred on February 11, 2014 and the well was abandoned in compliance with agency standards by CRG. The total depth of the well according to abandonment records was 5,925 feet bgs and the depth to base of fresh water was listed as 2,250 feet bgs.

- **Well API: 03706496, Well Number: 8-3** (Henceforth identified as Well 8-3)

  According to DOGGR records, Well 8-3 was located toward the northern corner of the Site (see Figure 2), immediately north of Well 8-4. Well 8-3 was drilled circa October 1937 by Union Oil. Oil was identified in the well and production occurred intermittently through at least 1977 with several ownership changes during that time. A formal *Order to Plug and Abandon Wells and Restore Lease Conditions* was issued by DOGGR to CRG. On October 18, 2012. According to a letter from DOGGR dated March 27, 2017, surface plugging occurred on December 2, 2013 and the well was abandoned in compliance with agency standards by CRG. The total depth of the well according to abandonment records was 6,540 feet bgs and the depth to base of fresh water was listed as 2,260 feet bgs.

- **Well API: 03709792, Well Number: 8-1** (Henceforth identified as Well 8-1)

  According to DOGGR records, Well 8-1 was located towards the southeastern corner of the Site, north of the canopy structure (see Figure 2). The well was drilled circa August 1937 by Union Oil. Oil was identified in the well and production occurred through at least 1939. A notice of intent to abandon Well 8-1, dated June1992, stated that the total depth of the well was 4,532 feet bgs. A letter from DOGGR dated March 9, 1993 stated that the well was plugged on July 3, 1992 by Petro Resources, Inc. and that the well was abandoned in compliance with agency standards.

- **Well API: 03709793, Well Number: 8-2** (Henceforth identified as Well 8-2)

According to DOGGR records, Well 8-2 was located towards the southeastern corner of the Site, north of the canopy structure and just south of Well 8-1 (see Figure 2). The well was drilled circa October 1937 by Union Oil. Oil was identified in the well and production occurred through 1993. Abandonment records indicated that the total depth of the well was 5,480 feet bgs with a base of freshwater sands at 2,250 feet bgs. According to a letter from DOGGR dated November 27, 1996, surface plugging was completed by North Side Oil Corporation on October 21, 1996 and the well was abandoned in compliance with agency standards.

- **Well API: 03722295, Well Number: 8-5** (Henceforth identified as Well 8-5)

  According to DOGGR records, Well 8-5 was located along the south portion of the western border of the Site (see Figure 2). Well 8-5 was reportedly drilled circa July 1981 by Sun Oil Company. However, a Notice of Intention to Abandon Well dated August 1981 stated that the well was never logged or tested and it never produced. The total depth was listed as 4,965 feet bgs. The well abandonment was reportedly completed on August 22, 1981 by Sun Oil Company and a letter from DOGGR indicated that abandonment requirements had been fulfilled.

- **Well API: 03722512, Well Number: 8-7** (Henceforth identified as Well 8-7)

  According to DOGGR records, Well 8-7 was located toward the northern corner of the Site, south of Well 8-4 (see Figure 2). Well 8-7 was reportedly drilled circa August 1981 by Sun Oil Company. A notice of intent to abandon the well dated February 18, 2009 indicated that the total depth of the well was 5,837 feet bgs with a depth to base of fresh water at 2,935 feet bgs. The notice of intent was cancelled in March 2010 and a formal *Order to Plug and Abandon Wells and Restore Lease Conditions* was issued by DOGGR to CRG. On October 18, 2012. According to a letter from DOGGR dated March 27, 2017, surface plugging occurred on January 7, 2014 and the well was abandoned in compliance with agency standards by CRG.

3.7.3 County/Regional Agencies

3.7.3.1 *LARWQCB*

Roux submitted a Public Records Request via email on July 25, 2019. The LARWQCB responded on August 8, 2019 and stated that they did not have any records for the Site.

3.7.3.2 *SCAQMD*

Roux queried the online SCAQMD database on July 25, 2019. No listings associated with the Site were identified.

Roux also submitted a Public Records Request via email on July 25, 2019. SCAQMD responded on August 8, 2019 and stated that they did not have any listing for this Site.

3.7.3.3 *LACoFD: HHMD*

Roux submitted a Public Records Request online on July 25, 2019. The LACFD: HMD responded on July 25, 2019 and indicated that they did not locate any records for the Site.

3.7.3.4 *LACDPW*

Roux queried the Online File Review database for industrial waste, underground storage tanks, and stormwater records on July 25, 2019. No listings associated with the Site were identified.

3.7.3.5 *LACDPW: Building & Safety Department*

Roux queried the online Building Permits Viewer database on July 25, 2019. No records associated with the Site were identified.

3.7.3.6 *LACDPW: GMED*

Roux submitted a Public Records Request online on July 25, 2019. GMED responded on July 25, 2019 and stated that the address was outside of their jurisdiction.

3.7.3.7 *LACDPW: SWIMS*

Roux queried the online SWIMS Methane Hazards Search database on July 25, 2019. All of the parcels that comprise the Site are "located within 300 feet of one or more oil or gas wells" and "a methane system may be required" under possible redevelopment scenarios. The LACDPW as well as the City of Long Beach should be contacted prior to Site redevelopment activities to determine whether methane mitigation requirements exist for the Site.

3.7.3.8 *LACSD*

Roux submitted a Public Records Request online on July 25, 2019. LACSD responded on July 26, 2019 and indicated that no records were found for the Site.

3.7.4 City/Local Agencies

3.7.4.1 *City of Long Beach: Department of Health and Human Services*

Roux submitted a Public Records Request on July 25, 2019. The agency stated that they did not have any records pertaining to the site.

3.7.4.2 *City of Long Beach: Environmental Health Bureau*

Roux submitted a Public Records Request on August 8, 2019. As of this report date, a response has not been received from the agency.

3.7.4.3 *Long Beach Fire Department: CUPA*

Roux submitted a Public Records Request on August 8, 2019. On August 12, 2019 the Long Beach Fire Department stated they did not have any records pertaining to this Site.

3.7.4.4 *City of Long Beach: Development Services Department*

Roux submitted a Public Records Request on August 8, 2019. A response was received stating that building records including permits and certificates of occupancy were available online to review. The records reviewed are listed below.

3701 North Pacific Place

- April 1995 permit for rough grading, applicant: Management, M.

- July 1996 rough drawing depicting a proposed driving range with additional proposed features also shown (a parking lot, a restaurant / office, a pro shop, and a maintenance building), owner: M&S Golf.
- August 1996 rough drawing depicting a proposed single-story building (Building B) with an existing building (Building A) and a driving range also depicted, owner: M&S Golf.
- December 1996 permit for a foundation and ramp for a premanufactured building identified as Building A, a pro shop, applicant: Marrn, Boyd
- December 1996 permit for a foundation and ramp for a building identified as “office and snack shop, Building B” applicant: Golf M S.
- February 1997 permit for construction of a golf learning center including landscaping, a parking area, and lighting, applicant: Golf, M S.
- February 1997 permit for a new prefabricated storage building (identified as “Building C”), applicant: Golf, M S.
- April 1997 permit for an open steel canopy over tee line measuring 240 feet in length, applicant: Golf, M S.
- April 1997 rough drawing depicting a planned open patio cover measuring 240 feet in length with three existing structures (a pro shop, an office, and a maintenance facility) also depicted, owner: M&S Golf.
- July 1997 record indicating that a fee was issued for an oil well that was recorded on-Site, applicant: Golf Learning LLC.
- August 1997 certificate of occupancy for an open steel canopy over tee line, owner / applicant not listed.
- September 1997 permit for a new prefabricated storage building (identified as “Building C”), owner / applicant not listed.
- September 1997 record indicating that a fee was issued for an oil well that was recorded on-Site, applicant: Golf Center LLC.
- September 1997 certificate of occupancy for a foundation and ramp for a pre-manufactured building identified as Building B, an office and snack shop, owner / applicant not listed.
- November 1997 certificate of occupancy for a premanufactured building identified as Building A, a pro shop, owner / applicant not listed.
- December 1997 certificate of occupancy for a golf learning center landscaping, parking, and lighting standards, owner / applicant not listed.
- November 1998 permit for two flag poles with a banner, applicant: Golf, M S.
- April 2002 permit for a foundation for a modular building to extend retail building at golf driving range, applicant listed as Golf, M S.
- April 2002 rough drawing depicting a retail building addition at a driving range, applicant listed as Ruben C. Sanchez.
- June 2002 record indicating that a fee was issued for an oil well that was recorded on-Site, owner / applicant not provided.

- June 2002 certificate of occupancy for a foundation for a modular building to extend retail building at golf driving range, owner / applicant not listed.

4021 North Pacific Place

- September 1996 void permit to demolish a commercial steel building, owner listed as Northside Oil. Associated rough drawing does not appear to clearly correspond to the Site.
- March 1997 Grading completion certifications with indistinguishable details due to poor quality.

Information from building records has been incorporated into other sections of the report as applicable, particularly Section 4.1.

3.8 User Provided Information

ASTM E1527-13 provides that the User perform certain tasks. The purpose of this section is to present select User-provided information that can assist in identifying possible RECs in connection with the Site. According to ASTM E1527-13, these tasks do not require the technical expertise of an environmental professional and the environmental professional generally does not perform these tasks. Roux administered a questionnaire to the User at the beginning of this Phase I ESA to assist them with these tasks. The questionnaire was completed by Mr. Chip Brown, a representative of the User on August 14, 2019 and is included as Appendix H to this report. The following sections outline the answers to the questionnaire as completed by the User.

3.8.1 Environmental Liens or Activity and Use Limitations

The User indicated that they have no knowledge regarding environmental liens or activity and use limitations (engineering/institutional controls) with respect to the Site.

An environmental lien search performed by EDR on August 21, 2019. According to the search, environmental liens were not found to be associated with any of the Site parcel numbers. No other activity and use limitations (AULs) were found to be associated with any of the Site parcel numbers.

3.8.2 Specialized Knowledge

The User did not report any specialized knowledge in relation to the Site.

3.8.3 Valuation Reduction for Environmental Issues

The User provided the following information regarding the relationship of the purchase price to the fair market value of the property if it were not contaminated:

“The price of the property has been adjusted from what we understand would otherwise be fair market value to account for the property's environmental conditions, potential risks to an owner that may be associated with such conditions, and possible response actions that a new owner may need to undertake to address such conditions.”

3.8.4 Commonly Known or Reasonably Ascertainable Information

The User provided the following information considered Commonly Known or Reasonably Ascertainable:

“We understand from available records that from the1920s until the 1960s or 1970s the property was used as an oil brine treatment facility. A partial “cleanup/treatment” apparently took place in the 1970s and involved

removal, treatment, and replacement of sump materials. We also understand land farming took place on the property in 1980s and [the Site] was used as a driving range in the 2000s."

3.8.5 Obvious Indicators of the Presence or Likely Presence of Contamination of the Site

The User stated their understanding that materials from the oil brine treatment facility are still located on the property.

Additional environmentally related records were provided to Roux by the User during the preparation of this Phase I ESA. Information from these records has been incorporated as appropriate throughout this report.

3.9 Other Interviews

Roux performed interviews with the current owners of the Site and other parties having possible knowledge of the Site and surrounding properties in an effort to identify current and past uses of the Site and surrounding areas, as they may relate to the environmental condition of the Site.

On August 27, 2019, Roux interviewed Steve Sukut, of Sukut Development, Inc. (Sukut Development) via phone. Mr. Sukut stated that Sukut Development has owned the majority of the Site (Parcels 1 and 2 per property deed information) for approximately 15 years and purchased Parcels 1 and 2 from Pender Properties, Inc. (Pender Properties). From 1996 to 2016, Sukut Development operated the former on-Site golf learning facility. According to Mr. Sukut, clean soil fill was imported to the Site to facilitate grading for the driving range development circa 1996. The golf course learning canter operations ceased in 2016 and the buildings associated with the driving range were removed in 2017. However, Roux's review of historical aerial photographs suggest that the buildings had been removed by 2016. Mr. Sukut stated that no additional environmental investigations were conducted following the 2009 LFR Final Remedial Investigation (RI) Report and that he has no knowledge of high-pressure petroleum pipelines crossing the Site.

On August 28, 2019, Roux interviewed Mark Pender of Pender Properties. Pender Properties currently owns a portion of the Site (Parcel 3) according to property deed information. Mr. Pender stated that he has owned portions of the Site since approximately 1998. During that time, Pender Properties and Sukut Development had a partnership, CRG Properties. According to Mr. Pender, the former oil sumps on-Site were lined with clay. Soil was imported to fill the on-Site oil sumps in or around the 1950s and the fill may have originated from a nearby CalTrans freeway project. Later, prior to Site redevelopment activities circa 1986, a layer of polyethylene plastic sheeting was installed on the Site surface and approximately 80,000 cubic yards (CY) of sandy soil was imported to the Site from nearby Los Angeles River dredging activities and was placed on top of the plastic sheeting. The sandy soil layer on top reportedly ranged from two to eight feet thick across the Site. According to Mr. Pender, the golf learning center operations likely involved typical fertilizer and pesticide use for lawn upkeep, although he had no knowledge of bulk storage of these materials on-Site. Mr. Pender stated that the golf learning center operations ceased approximately three to four years ago and the buildings were removed approximately two to three years ago. Mr. Pender stated that no additional environmental investigations were conducted following the 2009 LFR Final RI Report and he had no knowledge of high-pressure petroleum pipelines crossing the Site or oil wells located on the Site.

4. Site History and Condition

This section documents the history of the Site and describes current conditions and existing or former environmental features. Pursuant to ASTM, Roux requested the following standard historical sources as described in Section 3.0:

- Historical aerial photographs;
- Historical fire insurance maps;
- Historical topographic maps; and
- Local street directories.

Historical sources from the EDR reports have been supplemented by information obtained from the records requests as described in Section 3.7.

4.1 Site History

The history of the Site and, to a lesser extent, the surrounding area, including previous land use, has been compiled based on information from the sources above, particularly the historical aerial photographs and historical topographic maps.

Summary of Historical Sources		
Date Range	**Site Description**	**Historical Sources**
<1910	The earliest topographic map reviewed for Phase I ESA purposes was published in 1896 and indicates that no development had taken place within the Site boundary by that time. The Site appears to be approximately 25 feet above msl. Typical USGS mapping symbols from the time show the pre-channelization course of the Los Angeles River flowing north-south approximately 300 feet to the west of the Site at its closest approach. It also shows marsh or swamp areas to the northeast and southeast. The map shows a branch of the Southern Pacific Railroad approximately 1.3 miles northwest of the Site. There appear to be structures located at Cerritos to the northwest, Watson Crossing to the southwest, and Signal Hill to the southeast. No significant changes were noted in the 1899 and 1902 topographic maps.	- 1896, 1899, 1902 Historical Topographic Maps: Downey (15-minute)
1911-1920	No significant changes were noted in the 1911 and 1916 topographic maps relative to the 1902 topographic map.	- 1911, 1916 Historical Topographic Maps (Nationwide Environmental Title Research, LLC HistoricalAerials.com)

Summary of Historical Sources		
Date Range	**Site Description**	**Historical Sources**
1921-1930	No significant changes were noted in the 1923 topographic maps relative to the 1916 topographic map. The combined 1924, 1925 topographic maps indicate that the Site remained undeveloped at that time. The 1924 and 1925 topographic maps indicated that a railroad trending northwest-southeast, called "Pacific Electric," had been constructed by that time, bordering the Site to the northeast; the adjoining railroad has been identified as an OEF (see Section 8.5). In addition, the map depicted a structure was to the northeast of the Site, beyond the railroad, identified as a school. Several roads can be seen in the Site vicinity, particularly in the area to the east of Site, where the development of Los Cerritos was developing by that time. According to an aerial photograph from 1928, large pond-like features (oil sumps per previous reports and agency sources), bounded by unpaved dirt roads covered the majority of the Site by that time. Additional ponds were also present to the immediate south. As evident in the photograph, in the immediate Site vicinity, the Los Angeles River appears to be following its natural course with a meandering stream bed and stream deposits, located west of the Site. The areas immediately adjacent to the Site appear vacant but mostly cleared. Beyond the railroad line bordering the Site to the northeast appear to be the school structures noted in the 1924, 1925 topographic map; and the beginnings of the Los Cerritos residential neighborhood. A large circular feature (possible petroleum product or water AST), was located approximately 0.4 miles to the southeast of the Site. The 1930 topographic map appeared largely consistent with the 1924, 1925 historical topographic map.	- 1923 Historical Topographic Maps (Nationwide Environmental Title Research, LLC HistoricalAerials.com) - 1924 Historical Topographic Map: Compton (7.5-minute) - 1925 Historical Topographic Map: Cleanwater (7.5-minute) - 1928 EDR Aerial Photograph - 1930 Historic Topographic Map: Compton (7.5-minute) - May 27, 2009 LFR Final Remedial Investigation Report (RI)
1931-1940	According to DOGGR records, four oil production wells were drilled on-Site by Union Oil Company of California circa 1937: Well 8-1, Well 8-2, Well 8-3, and Well 8-4.	- 1937 DOGGR Records
1941-1950	Additional development to the east and southeast of the Site was apparent in the 1942 historical topographic map, several small circular features were noted to the southeast of the Site. An unpaved road was visible on the Site. The footprint of the ponds remained apparent in the 1947 aerial photograph with disturbances in the central and northern portions of the Site. The disturbances indicate that the ponds may have been undergoing a period of drying-out. An apparent tower is present toward the southeastern corner of the Site, the feature is a suspected oil derrick associated with one of the known former on-Site oil wells. Several small features, possible storage area or small structures, appeared near the tower/possible oil derrick. The large off-Site AST is no longer visible by the time of this photograph. Numerous apparent towers/possible oil derricks were present to the southeast of the Site along with several small structures likely associated with oil production activities. Additional residential structures were present to the northeast of the Site, beyond the adjoining railway. North of the Site, across the railway, several smaller ponds or reservoirs and circular features (possibly ASTs)	- 1942 Historical Topographic Map: Downey (15-minute) - 1943 Historical Topographic Map: Downey (15-minute) - 1947 EDR Aerial Photograph - 1947 Historical Topographic Map: Downey (15-minute) - 1949 Historical Topographic Map: Long Beach (7.5-minute)

Summary of Historical Sources		
Date Range	**Site Description**	**Historical Sources**
	were noted; these features were likely associated with oil production activities in the area. The Los Angeles River to the west and the railroad to the northeast remained present in the 1947 topographic map. Significant redevelopment in the east, southeast, and southwest surrounding properties beyond the railroad was depicted as red-shaded areas. The 1949 topographic map identified the on-Site pond features as "oil sumps" and the region is shaded with dots which could indicate sand or mud, a dry lake or pond, or a wide wash. The adjacent Los Angeles River wash area was similarly shaded. The school to the northeast of the Site was identified as "Los Cerritos School."	
1951-1960	The general Site features in the 1953 aerial photograph appear generally similar to the 1947 aerial photograph. Along the northwestern boundary of the Site and immediately adjacent to the Site are several new structures that appear to be associated with oil development activities. Two small circular structures were visible (possibly ASTs) and several towers/possible oil derricks were noted in this area. Few significant changes were noted in the Site vicinity. Further residential development had occurred to the northeast of the Site, beyond the railway, additional residential structures were present and to the north, the footprints of the pond/reservoir and circular features were visible. A large region of earthwork following the alignment of present-day Interstate 710 Long Beach Freeway (I-710), trending north-south, was observed approximately 0.2 miles west of the Site.	- 1953 EDR Aerial Photograph
1961-1970	By the time of an aerial photograph taken in 1963, there had been little discernible change at the Site, although considerable activity was apparent in the immediate Site vicinity was apparent. Immediately south of the Site appears to be construction of the present-day I-405, trending east-west. The oil sumps are no longer present immediately south of the Site; however, several pond and circular features were still present further to the south. The Los Angeles River located west of the Site had been channelized by that time with a concrete-lined profile. The present-day I-405 and I-710 freeway interchange appears to be under construction further to the west, along with a road bridge for the I405 to cross the Los Angeles River. North of the Site, beyond the railroad line, remnants of former pond/reservoir features are visible, but they appear to be no longer in use. One oil sump was still depicted on-Site (covering the majority of the Site) in the 1964 topographic map with dotted shading. Small circular features (possibly representing oil well derricks) were depicted in the Site vicinity. Small structures were depicted southeast of the Site. The adjacent and nearby freeways were shown as constructed, and the Los Angeles River was shown in its present channel configuration with adjacent intermittent ponds. The Virginia Country Club is marked to the	- 1963 EDR Aerial Photograph - 1964 Historical Topographic Map: Long Beach (7.5-minute)

Summary of Historical Sources		
Date Range	**Site Description**	**Historical Sources**
	northeast, beyond a residential development. A number of circular features (possibly ASTs), including a water tower, were depicted in the area of a former sump located south of the Site beyond the I-405.	
1971-1980	The 1972 topographic map and 1972 aerial photograph were relatively consistent with the 1964 topographic map with additional circular structures (possibly ASTs) present along the northwestern border of the Site and immediately adjacent as depicted in the 1964 topographic map. Located immediately west of the Site were unpaved roadways leading to an apparent storage or dumping area. Additional residential development was visible to the north of the Site across the railroad lines. Pond features appeared alongside the Los Angeles River to the north and west of the Site. No significant changes were noted in the 1977 aerial photograph.	- 1972 Historical Topographic Map: Long Beach (7.5-minute) - 1972 EDR Aerial Photograph -1977 EDR Aerial Photograph
1981-1990	The Site appeared partially cleared and graded with disturbances in the northern portion in the 1981 aerial photograph. The structures along the northwest border visible in prior aerial photographs and topographic maps were still present. No significant changes were noted in the 1981 topographic map in comparison to earlier versions. According to DOGGR records, two oil production wells were drilled on-Site by Sun Oil Company circa 1981: Well 8-5 and Well 8-7. Well 8-5 reportedly never produced oil and was abandoned later the same year (1981). The 1987 topographic map appears largely consistent with the 1981 topographic map. According to the 2009 RI, limited land farming activities were conducted at the Site from 1987 to 1989 in an attempt to remediate the impacts from the historical Oil Operators operations, however, remediation was reportedly not completed. The 1989 aerial photograph was largely consistent with the 1981 aerial photograph and topographic map. The apparent storage/dumping activities formerly located immediately west of the Site were no longer visible.	- 1981 EDR Aerial Photograph - 1981 Historical Topographic Map: Long Beach (7.5-minute) - 1981 DOGGR Records - 1987 Historical Topographic Map (Nationwide Environmental Title Research, LLC HistoricalAerials.com) - 1989 EDR Aerial Photograph - May 27, 2009 LFR Final Remedial Investigation Report (RI)
1991-2000	According to DOGGR records, Well 8-1 was abandoned in 1992. The 1994 aerial photograph indicated that the Site remained cleared and graded with structures remaining along the northwest border. No other significant changes were noted in the Site vicinity. According to building records, the Site was developed as a golf learning facility by Sukut Properties between April 1995 and November 1998 (Golf Center LLC / M&S Golf). As part of the improvements, several structures were constructed on the Site during this time: a canopy over the tee line, Building A (golf pro shop), Building B (office and snack shop), Building C (storage), and Building D (maintenance facility). Buildings A, B, C, and D were identified as premanufactured-type	- 1992 DOGGR Records - 1994 EDR Aerial Photograph - 2000 Haines Company, Inc. City Directory Listing - 1995-1998 City of Long Beach Development Services Department: Building Records - 1996 DOGGR Records - August 27, 2019 Interview with Steve Sukut

Summary of Historical Sources		
Date Range	**Site Description**	**Historical Sources**
	buildings. During this time, Well 8-2 was abandoned (1996). A 2000 city directory listing noted that Long Beach Golfing Learning Center operated at 3701 North Pacific Place. Due to the former driving range / golf learning center operations, commercial pesticides may have been historically used on-Site. It is unknown whether the pesticides were stored on the Site. The possible historical pesticide and herbicide use was therefore identified as an OEF (Section 8.5).	
2001-Present	By the time of an aerial photograph taken in 2002, the present-day asphalt-paved parking areas, concrete walkways, and canopy were visible. Several small structures were present in the southern portion of the Site. The structures along the northwestern border of the Site were no longer visible. Features characteristic of a golf facility cover the majority of the Site and the southeastern property. According to building records, Building A was expanded in 2002. The Site was no longer identified as an oil sump in the 2012 topographic map, and the circular features to the south were absent as well. The Southern Pacific Railroad is no longer depicted. The 2005, 2009, and 2012 aerial photographs appeared largely consistent with the 2002 aerial photograph, although over time the apparent golf features on-Site become progressively less distinguishable. City directory listings for the years 2006, 2010, and 2014 indicate the continued occupancy of the Site as a golf learning facility (Long Beach Golf Learning Center). According to DOGGR records, Well 8-3 was abandoned in 2013 and Well 8-4 and Well 8-7 were abandoned in 2014. By the time of the 2016 aerial photograph, the Site appears as a largely vacant lot. The asphalt-paved parking area, concrete walkway, and canopy remain present, however the additional structures formerly located in the southern portion of the Site were removed since the 2012 aerial photograph, reflecting the present configuration of the Site. No building records indicating specific removal dates of the former buildings were found. The pond/reservoirs and circular features located south of the Site, across I-405 became progressively less distinguishable as well between 2002 and 2016, indicating that they may have faded out of use. No other significant changes to the Site vicinity were noted during this time.	- 2002 EDR Aerial Photograph - 2002 City of Long Beach Development Services Department: Building Records - 2012 Historical Topographic Map: Long Beach (7.5-minute) - 2005, 2009, 2012, and 2016 EDR Aerial Photographs - 2006, 2010, 2014 EDR Digital Archive City Directory Listings - 2013-2016 DOGGR Records

4.2 Site Reconnaissance

A Roux's representative conducted a reconnaissance of the Site and surrounding areas on August 2, 2019. Roux was unaccompanied during the Site reconnaissance. Roux also visually and/or physically observed adjoining properties from reasonably accessible locations on the Site and public thoroughfares. During the Site reconnaissance, the weather was clear and warm. Roux personnel took representative photographs of

the Site and surrounding area which have been annotated and included in Appendix G. The following sections summarize observations during the inspection.

4.2.1 Current Site Condition and Limitations

At the time of Site reconnaissance, the Site was a vacant former golf learning facility. The Site was overgrown with vegetation and general refuse was present in numerous areas throughout the Site including domestic trash, tires, glass, and golf equipment. The topography of the Site and surrounding areas is varied and consists of small rolling hill-type features; the northwestern corner of the Site sits at an elevation approximately 10 to 15 feet lower than the rest of the Site. The former golf learning facility structures were removed by the time of Site reconnaissance with the exception of a canopy toward the southeastern corner of the Site. An asphalt-paved parking area was observed in the southeastern corner of the Site and a concrete sidewalk runs beneath the canopy and transects the southern portion of the Site. A dilapidated stone wall was present toward the northern corner of the Site. A billboard was observed in the southwestern corner of the Site, along the adjacent I-405. Remnants of the fencing system associated with the former driving range were visible along the western and northern boundaries. Unpaved walkways and access roads run along the western and northeastern borders of the Site.

Due to the large amount of vegetation present on the Site and the relatively large area of the Site, observation of all ground areas for potential features of concern was limited.

4.2.2 Phase I ESA Observations

During Site reconnaissance, Roux personnel attempt to identify any environmental features that may be relevant in the context of the Phase I ESA. Any such features are discussed in the sections below.

4.2.2.1 *Dumping*

Roux observed refuse throughout the Site including domestic trash, tires, glass, and golf equipment. Some of the refuse observed appeared to be remaining from historical golf learning center activities. However, much of the refuse may have been from small-scale illicit dumping activities.

It should be noted that numerous transient encampments were observed along the adjoining Los Angeles River and according to the Site personnel, transient activity was recently observed on the Site. Some of the domestic refuse observed on-Site may be associated with the reported transient activity. Although not observed during Site reconnaissance, used and discarded hypodermic needles are often present in areas with high transient activity.

4.2.2.2 *Landfills or Land Farms*

As noted above, the topography of the Site and surrounding areas is varied and consists of small rolling hill-type features. The varied topography is likely in part due to subsurface material remaining from the historical oil brine water treatment sumps (evaporation ponds / lagoons). Refer to Section 6.0 for discussion of the land farming operations performed during historical remedial efforts.

4.2.2.3 *Oil and Gas Wells*

According to previous investigations and agency records, six oil wells were formerly operated on the Site. Roux traversed the Site in the vicinity of known former oil and gas wells and did not observe evidence of the wells. This is unsurprising as abandoned oil or gas wells rarely leave behind any surface features following abandonment. The historical presence of oil wells at the site is considered a REC. Refer to Sections 6.0 and 8.2 for further discussion.

4.2.2.4 *Monitoring Wells*

According to previous investigations, two groundwater monitoring wells were installed on the Site, MW-3 and MW-7. Well MW-3 is located along the eastern border of the Site and MW-7 is located along the southern border of the Site. Well MW-3 was observed to be open during Site reconnaissance. Refer to Section 6.1 for discussion of previous groundwater monitoring and investigation activities.

4.2.2.5 *Drainage Features*

Roux observed a possible former drain located in the southwestern portion of the Site. The possible drain as well as piping remnants were observed on a concrete slab in the area of the former Building D, the maintenance facility for the historical golf learning center/driving range. It is unknown where the possible former drain discharged. No hazardous materials were observed in the vicinity of the feature; however, the feature was covered with plant debris and refuse at the time of Site reconnaissance, preventing direct visual observation.

4.2.2.6 *Vapor Intrusion*

Roux performed a vapor migration/intrusion pathway assessment. Refer to Section 6.0 for discussion of concerns associated with historical on-Site operations associated with oil development.

4.2.2.7 *Other Features*

The following features were not observed by Roux during the August 2, 2019 Site Reconnaissance, unless otherwise addressed above:

- Areas of stressed vegetation
- Areas which receive flood or storm water from potentially contaminated areas
- Air compressor vent discharges
- Discolored or Spill Areas
- Drainage Swales and Culverts
- Electrical Transformers
- 55-Gallon Drums and Other Hazardous Materials
- Former Agricultural Applied Pesticide Area
- Hydraulic Lifts
- Incinerators
- Loading and Unloading Areas
- Non-Contact Cooling Water Discharge
- Oil-Water Separators
- Open Areas Away from Production Areas
- Process Area Sinks and Piping
- Rail Cars/Railroad Spurs
- Septic Systems Leach Fields or Seepage Pits
- Silos
- Sprayfields
- Storm Sewer and Spill Containment Collection System
- Storm Water Detention Pond
- Underground / Aboveground Storage Tanks and Associated Piping
- Waste Piles

5. Adjoining Properties

Adjoining and selected nearby properties are shown in Figure 2 and are described below.

5.1 Vacant, Former Golf Learning Center to the East

The eastern adjoining properties were historically part of the former Oil Operators facility and more recently, the former golf learning center which also encompassed the Site. Three oil wells, identified in previous investigations and agency records, were historically operated on the eastern adjoining properties. The wells were not observed during Site reconnaissance. A particularly low drainage area was noted in the vicinity of one of the former wells. A drum labeled as “soil cuttings” on hold pending analysis from prior boring activities was noted in the asphalt-paved parking area located east of the Site. The drum was observed to be in good condition; no secondary containment was observed; no staining in the vicinity of the drum was observed. Based on the nature of materials within the drum and the lack of staining or other indications of a release, the off-Site drum was not identified as a significant environmental concern.

5.2 Oil Operators, Inc. Property to the East

East of the Site, located south of Pacific Place, is an Oil Operators facility which appears to function as a small storage yard. Signage observed during Site reconnaissance indicated that an unknown quantity of hazardous and flammable material is or was stored at the facility. No indications of a release from the facility impacting the Site were observed during Site reconnaissance.

5.3 Interstate-405 San Diego Freeway to the South

The Site is bordered to the South by I-405 and an interchange lane connecting to I-710. It is not uncommon for near-surface soils at properties in close proximity to freeways that operated in the era of leaded gasoline to be impacted by aerially deposited lead. However, there is no documented lead impact to soils at the Site attributable to the adjacent highways. Considering the proximity of the freeways, the potential for aerially deposited lead is considered an OEF in this Phase I ESA (Section 8.5).

5.4 Los Angeles River to the West

The Site is bounded to the west by the Los Angeles River. This area consists of a concrete lined channel and a vacant intervening area. Five oil wells, identified in previous investigations and agency records, were historically operated in the western Los Angeles River intervening area. The wells were not observed during Site reconnaissance. The Los Angeles River intervening area sits at an elevation approximately 10 to 15 feet below the majority of the Site due to a relatively steep downward slope along the western edge of the Site.

5.5 Railroad to the Northeast

The Site is bounded to the northeast by a Los Angeles Metro railroad line. Based on the review of historical sources, the adjoining railroad has been present since at least 1924. It was originally operated by Pacific Electric and later, Southern Pacific. Although Pacific Electric and Southern Pacific operated primarily passenger rail units, freight units were also reportedly operated on the line. Based on the length of time the railroad has been present and the potential for impacts from freight transportation, the railroad was identified as an OEF (Section 8.5). Beyond the railroad line is a residential development and an elementary school, Los Cerritos Elementary School.

6. Summary of Key Previous Investigations And Documents

The following documents were provided to Roux for review:

- January 1, 1986 Geofon Geotechnical Investigation (no cover page)
- Statewide Investors Site Characterization Study (GEOFON, Jaykim; October 1, 1986)
- January 22, 1988 Jaykim Engineers Revisions to the Rule 1150 Permit for Land Farming
- February 11, 1988 SCAQMD Rule 1150 Excavation Permit
- July 18, 1988 Jaykim Engineers 72-hour Notice to Proceed with Land Farming
- July 18, 1988 Jaykim Engineers Results of Biodegradation Test Plot
- April 19, 1989 Jack K Bryant SCAQMD Rule 1150 Permit Letter for Remedial Activities
- August 30, 1989 Jack K Bryant Results of Post Excavation Soil Sampling
- October 24, 1990 Oil Operators Letter to Water Board RE Monitoring
- September 20, 2002 City of Long Beach Request for DTSC Assistance with FOONS
- October 1, 2002 DTSC Response to City of Long Beach Letter (2002-09-20)
- November 24, 2003 Gregg Presentation of CPT Data
- March 24, 2005 LFR, Inc. (LFR) Letter to DTSC to Engage in VCA
- December 13, 2005 DTSC-CRG Properties VCA
- April 4, 2006 LFR Characterization Data Report - Part 1 of 2
- May 2, 2006 DTSC Meeting Agenda
- July 12, 2006 DTSC Comments to LFR Characterization Data Report (2006-04-04)
- March 7, 2007 LFR Historical Summary of Files Reviewed
- March 12, 2007 LFR Revised Characterization Data Report
- March 12, 2007 LFR RI Workplan
- March 12, 2007 LFR RTC DTSC (2006-07-12) Characterzation Data Report (2006-04-04)
- August 29, 2007 LFR RI Workplan
- September 6, 2007 DTSC Comments to LFR Final RI Workplan (2007-08-29)
- September 6, 2007 DTSC Comments to LFR GW MS Q12008 (2008-06-06)
- October 19, 2007 DTSC Community Survey Questionnaire
- November 1, 2007 Multiple Community Concern Emails
- November 20, 2007 DTSC Annual Cost Estimate 2008
- March 4, 2008 LFR RI Report (missing pages)
- April 15, 2008 DTSC Fran Collier Comments to RI Report (2008-03-04)

- July 9, 2008 LFR Summary of GW Conditions and Request for Clarification for the RI and FS
- October 1, 2008 DTSC Geologist Comments to Q12008 GW MS Report
- October 10, 2008 LFR RTC DTSC (2008-04-23) RI Report (2008-03-04)
- December 18, 2008 DTSC Approval Letter for Prep of HHRA and FS - Response to 2008-10-10 LFR Letter
- May 27, 2009 LFR Final Remedial Investigation Report (RI)
- June 15, 2009 DTSC Final RI Approval letter

A summary of key environmental documents is provided in the subsequent sections, mostly in the context of the 2009 LFR RI. The RI is a relatively comprehensive report that included discussion of numerous of the documents provided to Roux. The following sections summarize the findings from prior investigations by other consultants and do not include the opinions or recommendations of Roux unless explicitly stated. The RI and additional selected pertinent documented are included as Appendix J to the report.

6.1 Final Remedial Investigation Report (RI) (LFR, May 27, 2009)

According to the RI, the Site was a Brownfield development occupied by Long Beach Golf Learning Center, consisting of a driving range, putting practice and chipping areas, a snack bar, a golf shop, a maintenance building, and a paved parking lot. The subject of the RI consisted of the following APNs: 7140-014-019, 7140-014-020, 7140-014-021, 7140-014-022, 7140-014-023, 7140-014-025, and 7140-014-027.

The RI divides the subject into the following three areas:

- Portion 1 (APNs 7140-014-019 and 7140-014-020),
- Portion 2 (APNs 7140-014-021, 7140-014-022, 7140-014-023, and 7140-014-027), and
- Portion 3 (APN 7140-014-025).

Portions 2 and 3 are not part of the Site; they are located to the southeast of the Site. As previously stated in Section 2.1, the Site consists of parcels 7140-014-019, 7140-014-032, and 7140-014-033 which generally correspond to Portion 1 in the RI.

According to the RI, the Site was formerly owned by Oil Operators, a non-profit cooperative organization that functioned as a central oil brine water treatment facility serving member oil companies. Oil brine is generally comprised of drilling mud and other waste generated from oil production activities. The Oil Operators facility encompassed a large area of which the Site was the northernmost portion. Brine water treatment operations began in 1926. Oil brine was pumped to sumps on the Oil Operators facility, the majority of the Site was used as a treatment sump. Water was allowed to evaporate from the brine or seep into the subsurface below the sumps leaving behind a sludge. Following evaporation, the remaining sludge was left in the sumps or dumped elsewhere. Evaporation operations ceased at the Site when a water treatment plant (including evaporation ponds) was built south of the Site in the mid-1950s.

In the 1970s, a partial cleanup/treatment of the Site was conducted. The partial cleanup included removal, treatment, and replacement of a portion of the sump materials. However, detailed records describing the cleanup activities were not available for review. Additional investigations were performed in the 1980s.

Numerous reports reviewed by LFR and discussed in the RI are discussed below. It should be noted that the following information was obtained from the RI; not all of the reports were made available to Roux for direct review.

6.1.1 Oil Sump Site Development Feasibility Study (August 25, 1983) and Oil Sump Site Development, Supplemental Investigation (January 1984), prepared by Earth Technology Corporation

In an effort to assess the feasibility of supporting light industrial structures on the sump materials at the Oil Operators facility, 16 electric cone penetrometer tests (CPTs) were performed during two investigations by Earth Technology Corporation (ETC). The results indicated that the majority of sump materials remaining at the property were too compressible to directly support shallow foundations and differential foundation settlement would likely be excessive. Three subsurface profiles located across the Site were created based on the CPT results. The following four zones were identified in the RI:

- *Zone 1: Stiff clay and sandy clay soil with occasional sand near the ground surface; relatively high to moderate oil content; "appeared to have been treated and recompacted."*
- *Zone 2: Firm to soft clay and silt; moderate to low oil content; may have been lightly treated and replaced; very compressible.*
- *Zone 3: Very soft clay; untreated and uncompacted; water saturated; highly compressible. Zone 3 materials reached as deep as 30 feet bgs in some locations at the Site. The deepest area appeared to be in the central portion of the Site.*
- *Zone 4: Natural soil with some moderately compacted sump material near the top.*

6.1.2 Geotechnical Investigation (GEOFON, Inc., January 1986)

GEOFON, Inc. (GEOFON) conducted a geotechnical investigation to evaluate subsurface conditions at the Oil Operators facility for a potential business park development. A 1986 Site Characterization Study apparently referenced the report; however the date of the GEOFON report is unknown. A total of 12 borings (GB-1 through GB-12) were advanced on the property to assess soil types, levels of soil contamination, and depth of sump materials. Data from prior geotechnical investigations, including the previously discussed ETC activities were incorporated into the GEOFON report. The total volume sump material at the Site, including unprocessed, moderately processed, and lightly processed sump material was estimated to be 390,000 to 490,000 CY, of which an estimated 80,000 to 100,000 CY was unprocessed sump material. The sump materials were described as primarily "mud similar to clayey soils, mixed with highly variable amounts of salty water (brine) and oily wastes." Two areas with the greatest amount of sump material were described as follows:

- Approximately 75,000 CY of sump material was distributed throughout a rectangular area approximately 450 feet long, 300 feet wide, and 15 feet thick in the central portion of the Site; and
- Approximately 7,000 CY of sump material was distributed throughout a triangular area approximately 7 to 10 feet thick in the northern corner of the Site.

The primary area of occurrence of soft, unprocessed sump material was found at the base of the sump, approximately 20 to 30 feet bgs. Shallow groundwater was encountered at 8 feet bgs in one boring located in the central portion of the Site (GB-4). GEOFON concluded that this was a localized perched condition due to the presence of native sands at greater depths which were not saturated, and the lack of groundwater encountered in any other borings suggested localized perched groundwater.

GEOFON concluded that present surface conditions at the Oil Operators property were not suitable for supporting structures on shallow foundations due to the highly variable engineering properties of the sump materials and the high compressibility. However, following moisture-conditioning and compacting, the soils would be suitable for supporting structures according to GEOFON.

6.1.3 Site Characterization Study (Jaykim Engineers, Inc. and GEOFON, October 1986)

The scope of work for the Jaykim Engineers, Inc. (Jaykim) and GEOFON investigation consisted of 12 borings advanced to collect soil samples for geophysical and chemical analysis. The borings were converted to gas monitoring probes for the purpose of monitoring gas pressures and lower explosive limit (LEL) levels. The borings denoted GB-1 through GB-12 are reportedly the same borings referenced in the previously discussed GEOFON investigation.

According to the RI, soils at the property were characterized into the following six types based on physical characteristics:

- *Type 1 – Low to medium oil content in a dark silty or sandy clay;*
- *Type 2 – Medium to high oil content, with some samples showing liquid oil, in a black, silty to sandy clay;*
- *Type 3 – Extremely high oil content in a toothpaste-like consistency;*
- *Type 4 – Very low oil content in a dry blue clay;*
- *Type 5 – Very low oil content in a dry gray sand; and*
- *Type 6 – None to very low oil content in a brown silty sand.*

Concentrations of total petroleum hydrocarbons (TPH) in the samples analyzed ranged from non-detect (Type 6) to 75,800 milligrams per kilogram (mg/kg) (Type 3). Lead was detected up to 444 mg/kg (Type 3). Benzene and xylenes were detected at concentrations up to 3.0 mg/kg (Type 3) and 28 mg/kg (Type 2), respectively. Complete copies of the Jaykim and GEOFON reports were not available for LFR to review and tables and figures were absent. Therefore, the location and distribution of the contaminants are unknown.

Also discussed in the Site Characterization Study were four samples collected with a backhoe in April 1986. The analytical results were summarized with xylenes averaging 93 mg/kg, other volatile organic hydrocarbons averaging 11,158 mg/kg, non-volatile compounds averaging 130,200 mg/kg, and organic lead averaging 3.21 mg/kg. Detailed analytical results, tables, and figures were absent from the report.

As previously mentioned, the 12 borings advanced during the Jaykim and GEOFON investigations were converted to gas probes following collection of soil samples. Gas analysis included field testing for LEL

concentrations and probe pressures, as well as "GC/halogenated compounds and BTX." Methane concentrations reportedly ranged from 12.1 to 83.6 percent. Detailed analytical results, tables, and figures were absent from the report.

One groundwater sample was collected by GEOFON in 1986 from boring GB-4 in the presumed perched groundwater layer at 8 feet bgs. Concentrations reportedly included 26,000 micrograms per liter (µg/L) of TPH, 18,000 µg/L of zinc, and 16,000 µg/L of lead. Jaykim reportedly collected additional perched groundwater samples in 1988. Concentrations reportedly included 16 milligrams per liter (mg/L) of lead, 5.5 mg/L of chromium, and 7.3 mg/L of copper. The perched water appears isolated (not identified in other borings) at a location central to the Site. Off-Site migration of the perched water appears unlikely.

The Jaykim report also stated that the volume of fill material to be reprocessed was approximately 400,000 to 500,000 CY, of which approximately two thirds of the fill material were previously processed and had a relatively low oil content and soil-like properties. Jaykim stated that the low oil content fill material could be relatively easily removed, replaced, and compacted and that the remaining one third of fill material with a high oil content could be mixed with clean fill dirt, replaced, and compacted.

6.1.4 Agency Correspondences Related to Test Plot at Oil Operators North Site (Jaykim, 1988)

In a July 1988 letter to the RWQCB, Jaykim described the operation of a test plot to demonstrate the feasibility of soil bioremediation at the Oil Operators property. On May 31, 1988, the test plot area was cleared and leveled, and soil vapor readings within three inches of the soil surface were taken with a combustible vapor detector. Six "cells" that were approximately 8 feet wide by 50 feet long were staked out and rototilled. Ammonium nitrate and phosphate were then applied to the cells and tilled into the soil.

In June 1988, composite soil samples were collected from each cell. Oil-utilizing bacteria and warm water were added to five of the six cells and the five cells were then tilled and watered into the soil. Approximately 20 CY of oil-contaminated soil was removed to a depth of 15 to 20 feet bgs and mixed with surface soil in a one-to-one ratio. The soil mixture was then spread onto each of the cells at varying depths ranging from 3 to 6 inches and tilled into the surface and mixing was performed between two and six times daily over the course of five days to determine the optimal mixing frequency.

Results of the test indicated that the treatment process was more effective with more frequent mixing; the plots mixed six times per day had the greatest reduction in TPH concentrations (from 3,200 to 1,300 mg/kg), compared with reductions in a plot that was mixed twice daily (from 840 to 770 mg/kg).

6.1.5 Documents Detailing Land Farming Activities (Jaykim, Jack K. Bryant & Associates, 1987-1989)

Revised Excavation Management Plan for Oil Operators, Inc. North Site (Jaykim, October 1987). Planned land farming procedures to be accomplished in a grid pattern across the Site were described with an expected timeframe for completion of eleven months. Other activities to occur concurrently with the land farming included odor and dust control and groundwater monitoring.

Oil Operators, Inc. Rule 1150 Permit No. 157742 (Jack K. Bryant & Associates [JB], April 1989). This letter requested an extension of the Rule 1150 permit due to the time required to process 100,000 CY of material

containing 20,000 mg/kg or more of oil. The permit would again be extended if the material encountered had an absolute vapor pressure below 36 millimeters of mercury (mmHg).

6.1.6 Letter Detailing the Results of Post-Excavation Soil Sampling (JB, August 1989)

The letter provided analytical results for 14 soil samples collected during excavation activities that occurred in August 1989. The purpose of the soil sampling was reportedly to determine the amount of total recoverable petroleum hydrocarbons (TRPH) in soil at the Site; to analyze one sample for VOCs, semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, and pH; and to determine the potential for bioremediation of the soil. Concentrations of TRPH ranged from 16 to 92,000 parts per million (ppm) with higher concentration samples located near the center of the Site. In the singular sample analyzed for VOCs, SVOCs, pesticides, PCBs, metals, and pH, detections included 7.5 mg/kg of ethylbenzene, 3 mg/kg of benzene, 540 mg/kg of lead, and 44 mg/kg of arsenic.

6.1.7 Preliminary Assessment (Ecology and Environment, Inc., 1990)

According to the Preliminary Assessment, the California Department of Health Services collected soil samples in October 1989. Analytical results exceeding reported regulatory standards included arsenic (44 mg/kg), naphthalene (8,700 µg/kg), and TPH (95,000 ppm). Detailed analytical results, tables, and figures were absent from the report.

6.1.8 Documentation Regarding Groundwater Monitoring Activities (JB, RWQCB; 1987-1997)

A letter dated May 5, 1987 from the LARWQCB to Oil Operators provided approval for waste discharge requirements and included a requirement for monthly groundwater elevation measurement and quarterly groundwater monitoring. Subsequently, in letters dated November 7, 1989 and October 24, 1990, the previous quarterly groundwater monitoring requirement was altered to be annual groundwater monitoring as results reportedly did not show variations from previous tests. The actual groundwater monitoring report data was not made available to Roux for review.

6.1.9 Groundwater Monitoring Report for Oil Operators North Site (JB, February 1996)

This report presented the results of the groundwater sampling event that occurred in January 1996. Samples were collected from wells MW-2, MW-3 and MW-4. The depth to groundwater in the wells ranged from 39.3 feet bgs (MW-4) to 50.6 feet bgs (MW-2). The following results were provided by LFR in the RI:

- The pH ranged from 6.45 to 6.65 units;
- Concentrations of total dissolved solids (TDS) ranged from 2,690,000 µg/L to 10,800,000 µg/L;
- TRPH was detected in well MW-2 at 1,400 µg/L;
- TPH was not detected in any of the monitoring wells;
- Ethylbenzene and total xylenes were detected in MW-3 at concentrations of 0.9 µg/L and 2.4 µg/L, respectively, toluene was detected in monitoring well MW-4 at a concentration of 0.5 µg/L; and

- Lead, chromium, and nickel were not detected in any of the monitoring wells; zinc was detected at concentrations ranging from 20 µg/L (MW-3) to 120 µg/L (MW-2) and copper was detected at concentrations ranging from 74 µg/L (MW-4) to 80 µg/L (MW-2).

6.1.10 Annual Groundwater Monitoring Report 1996 for Oil Operators North Site (JB, March 1997)

This report presented the results of the groundwater sampling event that occurred in January 1996. Samples were collected from wells MW-2, MW-3 and MW-4. The depth to groundwater in the wells ranged from 42.43 feet bgs (MW-4) to 61.95 feet bgs (MW-2). The Site-wide increase in groundwater depths was attributed to earthmoving activities at the Site. The following results were provided by LFR in the RI:

- The pH ranged from 6.34 to 6.78 units;
- TDS concentrations ranged from 2,030,000 to 11,800,000 µg/L;
- TRPH and TPH were not detected in any of the wells;
- Benzene was detected in two wells, MW-2 and MW-3, at concentrations of 0.6 µg/L and 88 µg/L, respectively; toluene, ethylbenzene, and xylenes were detected in well MW-3 at concentrations ranging from 1.6 µg/L to 15 µg/L; and
- Zinc was detected at concentrations ranging from 100 µg/L (MW-4) to 200 µg/L (MW-2); lead was detected at concentrations ranging from 130 µg/L (MW-4) to 280 µg/L (MW-3); and nickel was detected in MW-3 at a concentration of 65 µg/L.

No other groundwater monitoring reports were provided to LFR or Roux for review; it is unknown whether additional groundwater sampling was conducted at the Site. Land farming operations reportedly ceased due to public complaints received by the SCAQMD; however, the date of these complaints is unknown.

A Voluntary Cleanup Program (VCP) application for the Oil Operators facility was approved by the DTSC on December 20, 2005. A Data Characterization Report was submitted to the DTSC to describe current and historical investigation and remediation activities in 2006. The DTSC challenged the report on the grounds that the Oil Operators facility had not been fully characterized and that further investigation was needed prior to the development of a remedial investigation workplan. In response to DTSC comments, a historical review of the facility was submitted in March 2007 which included the review of historical aerial photographs, topographic maps, and DOGGR records. The DTSC approved a remedial investigation workplan in September 2007.

6.1.11 Regional Degradation of Groundwater Quality (LFR, 2009)

In March 2009, LFR conducted groundwater monitoring. TDS in groundwater were 1,000 mg/L in MW-5, 2,000 mg/L in MW-6, 6,200 mg/L in MW-3, and 7,800 mg/L in MW-7, which indicated that concentrations of TDS in groundwater increased in the hydraulically downgradient direction. No clear trend regarding chloride concentrations was observed. According to LFR, it was unknown whether the elevated TDS concentrations were due to natural processes or historical operations on the Site or in the Site vicinity. LFR stated that “the Gaspur aquifer has historically been intruded by an influx of seawater during low water conditions in an inland direction to areas beyond Carson Street (located north of the Site) toward the crest of the Newport-Inglewood uplift.” According to LFR, groundwater enters the Site classified as slightly saline (1,000 to 3,000 mg/L), and

exits the Site classified as moderately saline (3,000 to 10,000 mg/L), with even higher levels of TDS and chloride detected in the Gaspur aquifer south of the Site. Based on the groundwater monitoring data, LFR concluded that Site groundwater conditions did not appear to differ significantly from the regional groundwater quality. On this basis, LFR further concluded that groundwater in the area is degraded from numerous and complex interactions of nature as well as historical activities; the Site was likely part of this but did not appear to be the sole or even primary cause of groundwater degradation. Due to the regional groundwater degradation issue, LFR stated that remedial action within the context of the Gaspur aquifer would be highly costly and likely ineffective.

6.1.12 Remedial Investigation Activities (LFR, 2009)

LFR conducted soil investigation activities at the Site between November 2003 and December 2007. Refer to Appendix J for the LFR report and a complete discussion of investigation results. A summary of the results is provided below.

6.1.12.1 *Soil*

A summary of the soil sampling results is provided below.

- Petroleum hydrocarbons were the primary contaminant found at the Site, with longer carbon chains predominant. Both extractable and volatile hydrocarbon criteria were near or below the screening levels established by LFR using the Massachusetts Department of Environmental Protection (MA DEP) approach to evaluate potential hazard from exposure for low quality groundwater.

- When compared with the MA DEP screening levels, only the TPH concentration detected in one sample (B7A-40; 7,850 mg/kg) was considered a potential hazard. However, based on the depth below ground surface, this concentration was determined to be unlikely to pose a threat to any receptors.

- Analytical results for VOCs collected in soil samples by LFR in 2003 and in 2007 indicated that VOCs were not present at levels above USEPA industrial preliminary remediation goals (iPRGs) in the sump samples collected.

- SVOC exceedances of iPRGs were one benzo(a)pyrene exceedance at 50 feet bgs (boring B7), and two naphthalene exceedances at 30 and 50 feet bgs (boring B7A). Based on the depth below ground surface, these concentrations were not identified by LFR as a threat to any receptors.

- Metals of concern identified at the Site were arsenic (up to 28.6 mg/kg, exceeding typical California background concentrations) and lead. Lead concentrations were exceeded for disposal purposes; however, a deionized water evaluation suggested no significant water quality threat and levels were below the iPRG.

- No PCBs or organochlorine pesticides were detected at concentrations above iPRGs.

6.1.12.2 *Soil Vapor*

PCE, TCE, and benzene were detected at concentrations above California Human Health Screening Levels (CHHSLs). Detectable PCE concentrations ranged from 5.3 µg/L to 9.1 µg/L, and TCE concentrations ranged

from 1.8 µg/L to 2.0 µg/L. Benzene was detected at concentrations up to 0.33 µg/L. A preliminary Johnson and Ettinger evaluation performed by LFR indicated “insignificant concerns” for these compounds.

Methane was detected at concentrations up to 30%, with 2 samples (out of 26) containing methane between the LEL and the upper explosive limit (UEL), i.e. within the explosive range, during LFR’s investigation. In prior investigations, methane concentrations reportedly ranged from 12.1% to 83.6%. LFR stated that methane would require consideration and potential mitigation during design and construction activities.

6.1.12.3 *Groundwater*

Historically, total petroleum hydrocarbons carbon chain (TPHcc), VOCs, and SVOCs were not detected above their respective maximum contaminant levels (MCLs). Due to the regional degradation of groundwater quality from historic oil production activities (TDS impacts), both on-Site and in the Site vicinity, the Site groundwater conditions were determined by LFR to be generally consistent with limited concerns. In prior investigations lead was observed in groundwater, however recent analysis found no significant impacts. Arsenic, barium, and mercury were detected at concentrations that exceeded their MCLs.

6.2 Final Remediation Investigation for Former Oil Operators North Site (June 15, 2009)

The DTSC issued a letter to LFR dated June 15, 2009 regarding the RI. The letter stated that the DTSC reviewed the final RI report dated May 27, 2007 and that the project was ready for a Feasibility Study (FS) as well as a Human Health and Ecological Risk Assessment (HHRA) workplan.

7. Records Review

7.1 Standard Environmental Record Sources

According to ASTM Standard E1527-13, the purpose of reviewing regulatory records is to obtain and review records that will help identify *recognized environmental conditions* in connection with the Site. In addition, some records to be reviewed pertain not only to the Site, but also to properties within an additional "approximate minimum search distance" in order to help assess the likelihood of problems from migrating hazardous substances or petroleum products. The basis of the "approximate minimum search distance" is the Site boundary.

Roux retained EDR of Shelton, Connecticut to provide an ASTM Radius Map Report for this Site. This report is a computerized search of select state and federal environmental databases that identify various properties with a record of environmental activity. Roux reviewed the report and summarized the relevant findings in the following sections. A copy of the compiled EDR Report has been included as Appendix F. The EDR report includes a detailed description of each of the databases searched, providing a summary of the type of information provided by each.

The following section describes the findings of the database search. Roux has used professional judgement in determining which EDR-listed sites to include in the narrative of this report. Sites adjoining the Site are included due to their proximity to the Site and the potential for surface water discharges (e.g., storm water runoff, surface water effluent discharges) to enter the Subject Site or through the migration of groundwater. Sites with listings indicative of a release (e.g. SHWS, LUST, RELEASE) with a reasonable likelihood of affecting subsurface conditions at the Site are likewise discussed below. Nonadjacent sites with database listings not necessarily indicative of a release (e.g. hazardous waste generator, FINDS, ECHO, NPDES, HAZNET, AST, or UST), or sites sufficiently distant from the subject Site, will not be discussed unless considered potentially relevant in context of the Phase I ESA.

7.1.1 Target Property

The target property is listed in a number of the federal, state, and local databases searched under different addresses and/or with different owner/operators. Based on the available information, the target property listings are summarized in the table below. The EnviroStor and VCP listings reference the DTSC active voluntary cleanup case for the Oil Operators historical operations. HAZNET database listings typically track hazardous waste handling and disposal originating at the facility. They are not, in themselves, indicative of a release at the property and are often an indication that good housekeeping measures are being implemented with regard to hazardous substances. Inclusion in other database records are summarized in the comments column of the table below.

Address	Owner/Operator	Database	Comment
3701 Pacific Place	Long Beach Industrial Park (A.K.A Former Oil Operators)	ENVIROSTOR VCP	ID: 70000161. Active voluntary cleanup case with petroleum hydrocarbons, methane, VOCs, SVOCs, and heavy metal (arsenic and lead) contamination in soil, soil gas, and groundwater due to former oil field waste treatment operations.
	C.R.G. Properties	HAZNET	ID: CAC002572604. 2004 disposal – off-specification, aged or surplus inorganics. No indication of a release.
	Long Beach Industrial Park	FINDS	Registry ID: 110033607899. Tracking other database listings.
4021 Pacific Place	Petro Resources Inc	SEMS-ARCHIVE	USEPA ID: CAD981371222. Non-NPL status.
	Long Beach Industrial Park	CPS-SLIC, CERS	Global ID: SL0603792443. Open – Inactive facility as of January 2015. Other solvent or non-petroleum hydrocarbon impact to soil.
	C.R.G. Properties	UST	UST listing. No indication of a release.

7.1.2 Adjoining Properties

Adjoining properties were identified on several databases searched by EDR, as summarized below.

- **Oil Operators, Inc. (south) Facility – 712 – 714 West Baker Street**

- An Oil Operators, Inc. facility was also present on the south side of the I-405 Freeway, approximately 500 feet to the south of the Site with 712 as the primary street address. The Oikl Operators, Inc. (south) facility is listed on the CPS-SLIC, ENVIROSTOR, CHMIRS, CERS, SWEEPS UST, CA FID UST, EMI, HIST UST, SEMS-ARCHIVE, and UST databases. The CPS-SLIC, ENVIROSTOR, and CERS database listings refer to an open – site assessment cleanup case with the Los Angeles Regional Water Quality Control Board as the lead agency. Based on the information documented in the "Supplemental Site Investigation (SSI) Report," prepared by Tetra Tech, Inc., dated July 17, 2015, the facility operated as a water treatment facility, treating produced water and other fluids recovered during oil production, from 1926 through 1998. The former settling basin, Basin 1, was repurposed for bioremediation for oily residual soil from water treatment. Cleanup criteria were established for the primary chemicals of concern (TPH, benzene, toluene, ethylbenzene, and xylene [BTEX], arsenic, chromium, lead and nickel) in Basin 1. The SSI found that the chemicals of potential concerns within the facility were total petroleum hydrocarbons gasoline range (TPHg) and methane in soil vapor; TPH, benzene, and total arsenic and lead in soil; and TPH, benzene, 1,2-

dichloroethane, arsenic, chromium, and lead in groundwater. The CHMIRS database details a release of less than 2 gallons of petroleum from a leaking pipeline in 1996. The "Workplan Supplemental Assessment for Origin of LNAPL Impacts near Bryon MW1," prepared by California Environmental, dated February 2019, notes three subsurface petroleum pipelines that border the facility to the east. Gasoline products detected in Brycon-MW1 within the facility are likely to have originated from the leaks associated with the bordering gasoline pipelines based on consistent chemical composition (see BP Pipeline case in Section 7.1.3). No documents subsequent to this workplan are available for review on Geotracker. It appears that the Oil Operators, Inc. (south) facility was once connected with the subject Oil Operators operations discussed at length throughout this report. As has been noted, on-Site and off-Site oilfield related activities have contributed to overall poor regional groundwater quality. The Oil Operators, Inc. (south) facility is considered to be addressed by the RECs listed in Section 8.2 covering former oilfield operations.

- **Caltrans Long Beach, W LA River #2 – W Los Angeles/At End of W. Carson**

  The Caltrans Long Beach, W LA River #2 facility adjoins the Site to the north-northwest, across the Los Angeles River. The facility is listed on the SWF/LF and CERS databases. The database listings refer to the facility as a closed solid waste disposal site. Considering the closed operational status and the Los Angeles River intervening between the facility and the Site, it is considered unlikely that the former disposal operations at the Caltrans facility would have adversely impacted subsurface conditions at the Site.

7.1.3 Site Vicinity

EDR identified the following properties located within one mile of the Site from the databases searched. Roux has reviewed each of the database listings with a focus on any property that experienced a release of hazardous or petroleum product with the potential to affect subsurface conditions at the Site. Properties where listings did not contain any information suggestive of a release with the potential to have impacted conditions at the Site have not been included in this section.

- **BP Pipeline/Arco – Golden Avenue**

  The BP Pipeline/Arco facility is located approximately 1,396 feet south of the Site per the EDR Radius Map report. The facility is listed on the CPS-SLIC and CERS databases. The database listings identify an open – assessment and interim remedial action case with LA RWQCB as the lead agency. Soil gas investigations in July 2011, conducted by Oil Operators, Inc., determined that benzene in soil gas was due to a BP pipeline release. An SVE system was installed and operated from September 2012 through September 2014. On June 2013, Tesoro bought the BP pipelines and assumed responsibility for assessment and remediation activities. Tesoro constructed a new SVE treatment compound and resumed operation in April 2015. A "Revised Expanded Interim Remedial Action Plan," prepared by AECOM, dated October 31, 2018, was submitted and approved by the Water Board to continue addressing areas of concern. No documents subsequent to this workplan are available for review on GeoTracker. Considering the documented lateral extents of the release, the hydraulically downgradient location of the suspected release with respect to the Site, and the intervening distance, it is considered unlikely that the petroleum pipeline release at the BP Pipeline/Arco facility would have adversely impacted subsurface conditions at the Site.

- **Store for Less – 1012 West Carson Street**

  The Store for Less facility is located approximately 1,698 feet northwest of the Site. The facility is listed on the SEMS-ARCHIVE and PRP databases. The PRP database listing identifies the facility as a potentially responsible party. Based on the information provided in the database listings, the facility is not considered a National Priorities List (NPL) site. No additional information is provided regarding any type of release. Considering the lack of indication of a known or potential release and the intervening distance of the facility with respect to the Site, it is considered unlikely that the Store for Less facility would have adversely impacted subsurface conditions at the Site.

- **Bixby Land Co. – 1101 Wardlow Street**

  The Bixby Land Co. facility is located approximately 1,885 feet south-southwest of the Site. The facility is listed on the CPS-SLIC database. This database listing refers to a TPH release to an unspecified media. The facility has received a No Further Action status. Considering the No Further Action status, the hydraulically downgradient location of the facility with respect to the Site, and the intervening distance, it is considered unlikely that the TPH release at the Bixby Land Co. facility would have adversely impacted subsurface conditions at the Site.

- **Raytheon Systems Co – 1500 Hughes Way**

  The Raytheon Systems Co facility is located approximately 2,280 feet west of the Site. The facility is listed on the SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG, EMI, HWP, ENVIROSTOR, FINDS, EMI, CERS, SCH, and HAZNET databases. The RCRA-TSDF database listing identifies four violations and the RCRA-SQG database listing identifies three violations in October 11, 1988. All violations achieved compliance by February 21, 1989. The ENVIROSTOR database listing refers to a corrective action cleanup case with a no action required status with DTSC as the lead agency. The facility (also known as Hughes Aircraft Support) operated as a manufacturer of electronic components which generated and stored hazardous waste within the facility. The case achieved a no action required status in May 31, 2012. Potential contaminants of concern and potential media affected were not specified. Considering the no action required status, the hydraulically downgradient location of the facility with respect to the Site, and the intervening distance, it is considered unlikely that the operations at the Raytheon Systems Co facility would have adversely impacted subsurface conditions at the Site.

- **Long Beach USD-Board Building – 1515 Hughes Way**

  The Long Beach USD-Board Building facility is located approximately 3,083 feet west of the Site. The facility is listed on the ENVIROSTOR, SCH, HAZNET, and CERS databases. The ENVIROSTOR and SCH database listings refer to an active school site with DTSC as the lead agency. The facility has a voluntary cleanup agreement with the DTSC. Potential contaminants of concern and potential media affected were not specified. The CERS database listing identifies two violations involving the administration building. Both violations achieved compliance on January 12, 2016. Considering the lack of indication of a known or potential release and the hydraulically downgradient location of the facility with respect to the Site, and the intervening distance, it is considered unlikely that the Long Beach USD-Board Building facility would have adversely impacted subsurface conditions at the Site.

- **South Region High School #4 5640019 – West Carson Street/Santa Fe Avenue**

  The South Region High School #4 5640019 facility is located approximately 3,838 feet northwest of the Site. The facility is listed on the ENVIROSTOR and SCH databases. The ENVIROSTOR database listing refers to a school cleanup case with no further action status with DTSC as the lead agency. Based on the information provided in the DTSC "Approval of Preliminary Environmental Assessment Report," dated March 6, 2006, step-out sampling conducted in March and June 2006 indicated no significant risks of metals and SVOCs to human health or the environment. On this basis, DTSC granted a no further action status for the Site. Considering the no further action status and the hydraulically cross-gradient location of the facility with respect to the Site, and the intervening distance, it is considered unlikely that conditions at the high school would have adversely impacted subsurface conditions at the Site.

8. Findings

Roux has performed this Phase I ESA in general compliance with the scope and limitations of ASTM Standard Practice E1527-13, the AAI Standards, CLRRA and CERCLA. Roux separated the findings of this assessment into the following four categories: *recognized environmental conditions*, *controlled recognized environmental conditions*, *historical recognized environmental conditions* and *other environmental features*.

8.1 Data Gaps

During conduct of this ESA, the following data gaps, as defined in ASTM Standard E1527-13 were identified:

- As of this report date, the following agency records requests are pending: EPA, CalEPA: CalRecycle, and City of Long Beach: Environmental Health Bureau. Considering the responsiveness of other agencies and the breadth of information provided, it is not anticipated that these pending responses constitute a significant data gap.
- Due to the large amount of vegetation present on the Site and the relatively large area of the Site, direct observation of all ground areas for potential features of concern was limited during Site reconnaissance.

8.2 Recognized Environmental Conditions

Based on the information obtained through the performance of this ESA, Roux identified the following RECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the recognized environmental conditions are shown in Figure 2.

- **REC 1 – Oil Sumps.** According to historical sources, the Site was formerly used as an oil brine water treatment facility beginning in 1926 for nearby and on-Site oil development activities. Oil brine was pumped to evaporation and treatment ponds (sumps) on the Site; the majority of the Site was used as a treatment sump. Water was allowed to evaporate from the brine or seep into the subsurface below the sumps leaving behind a sludge. Following evaporation, the remaining sludge was left in the sumps or dumped elsewhere. Evaporation operations reportedly ceased at the Site in the mid-1950s. No information was found indicating how the sumps were abandoned and whether or not fill was imported. Although numerous investigations and limited land farming activities have been conducted at the Site, no large-scale remediation has been completed as of this report date. Petroleum hydrocarbon, metal (arsenic and lead) impacts have been identified across the Site in soil with limited SVOC impacts detected as well. In soil vapor, PCE, TCE, benzene, and methane were detected across the Site.

- **REC 2 – Former Oil Wells.** According to DOGGR records, six oil wells were historically located on-Site and five of the six wells produced oil. The wells were reportedly drilled between 1937 and 1981. All six wells were abandoned between 1981 and 2014 according to DOGGR standards at their respective times of abandonment.

- **REC 3 – Nearby Off-Site Historical Oil Development.** According to historical sources, the Site vicinity, including adjoining properties, has been historically used for oil development activities including oil production wells, evaporation and treatment ponds (sumps), and storage (ASTs). Prior investigations at the Site and nearby properties indicate that regional groundwater in the area has

been degraded at least in part due to the historical oil development activities in the vicinity of the Site. TDS impacts have been identified in the Gaspur aquifer, approximately 50 to 70 feet bgs, in the Site vicinity

8.3 Controlled Recognized Environmental Conditions

Roux did not identify cRECs in connection with the current and historical operations at the Site or adjacent properties.

8.4 Historical Recognized Environmental Conditions

Roux did not identify hRECs in connection with the current and historical operations at the Site or adjacent properties.

8.5 Other Environmental Features

OEFs are environmental conditions that do not meet the definition of a REC or cREC/hREC, but which may warrant mention in a comprehensive Phase I ESA. Based on the subject Phase I ESA, Roux identified the following OEFs at or adjacent to the Site. To minimize possible confusion, the REC and OEF identification numbers are sequential.

- **OEF 4 – Commercial Pesticide and Herbicide Use.** The former driving range / golf learning center operations may have involved the use of pesticides and herbicides to control and optimize vegetation typical of golf course facilities. No documentation was found confirming the use of pesticides or herbicides on-Site.

- **OEF 5 – Pressurized Oil Pipelines.** Based on the NPMS Public View database, is suspected that two active crude pipelines are located within 50 feet of the Site and may cross the southeastern corner of the Site. Two additional petroleum/crude pipelines were identified within 1,000 feet of the Site. No indication of a release from any of the pipelines was identified by Roux in the preparation of this Phase I ESA.

- **OEF 6 – Adjoining Off-Site Railroad Tracks.** According to historical topographic maps, the northeastern adjoining railroad was constructed by 1924. Although the rail is currently used as a Los Angeles Metro passenger rail line, historical topographic maps identified the railroad as a Pacific Electric line in 1924 and later as a Southern Pacific line through 1987. The materials transported along the railroad historically is unknown. Both the presence of these railroad lines and the materials transported along the railroad lines may have potentially impacted the subsurface at the Site. Railroad ties have historically and are presently treated with copper arsenate, creosote (which contains PAHs), PCBs, pentachlorophenol (which also contains dioxins), and copper naphthalene. In addition to these chemicals, railway transportation is associated with heavy metals, herbicides, pesticides, VOCs, and petroleum product impacts. No evidence of a likely release associated with the rail lines was identified during the course of preparing this Phase I ESA.

- **OEF 7 – Adjoining Off-Site Interstate Freeway.** The Site is bordered to the south by the I-405 San Diego Freeway, the off-ramp of which adjoins the Site. It is not uncommon for near-surface soils at properties in close proximity to freeways that operated in the era of leaded gasoline to be impacted

by aerially deposited lead. No documentation of lead contamination in the area adjoining I-405 was identified during the course of preparing this Phase I ESA.

- **OEF 8 – On-Site and Nearby Transient Activity.** Transient encampments were observed along the adjoining Los Angeles River and according to the Site personnel, transient activity was recently observed on the Site. Some of the domestic refuse observed on-Site may be associated with the reported transient activity. Although not observed during Site reconnaissance, used and discarded hypodermic needles are often present in areas with high transient activity.

- **OEF 9 – Unknown Fill Material.** According to an interview with Site owner, Mark Pender, soil was imported to fill the on-Site oil sumps in or around the 1950s and the fill may have originated from a nearby CalTrans freeway project. Subsequently, according to Mr. Pender, approximately 80,000 CY of sandy soil was imported from dredging operations at the Los Angeles River. Finally, another site owner, Steve Sukut, indicated that additional fill material was imported to the Site to facilitate grading for the golf learning facility. It is possible that the fill materials may be impacted, particularly with heavy metals or TPH.

9. References

American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13).

California Department of Water Resources Bulletin 118, Update 2003 and Interim Update 2016

DTSC, *Final Remediation Investigation for Former Oil Operators North Site*, June 15, 2009

EDR, *The EDR Radius Map™ Report with GeoCheck®*, July 26, 2019.

EDR, *The EDR Aerial Photo Decade Package*, July 26, 2019.

EDR, *EDR Historical Topo Map Report*, July 25, 2019.

EDR, *Certified Sanborn Map Report*, July 26, 2019.

EDR, *The EDR-City Directory Abstract*, August 1, 2019.

LFR Inc, *Final Remedial Investigation Report: Former Oil Operators North Site, 3701 Pacific Place, Long Beach, California*, May 27, 2009.

10. Signature 0f Environmental Professional

Roux performed this assessment in accordance with the generally accepted practices for environmental assessments at the time of implementation. Roux made a reasonable effort to ensure that the information presented in this report is materially complete and accurate.

Roux completed a Phase I ESA in general compliance with the scope and limitations of ASTM Practice E1527-13 of the commercial property located at 3701 Pacific Place, Long Beach, California.

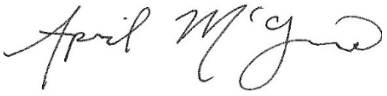
“We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR 312” and,

“We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

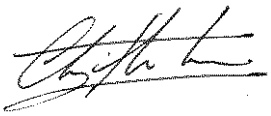
Roux performed this Phase I ESA by, or under direct supervision of, the undersigned environmental professionals.

Respectfully Submitted,

ROUX ASSOCIATES, INC.



April McGuire
Project Engineer



Chris Rose, P.E.
Senior Engineer

Mauricio Escobar, P.G.
Principal Geologist

FIGURES

1. Site Location Map
2. Site Plan

2,000 0 2,000
Feet

N

Title:

SITE LOCATION MAP

3701 NORTH PACIFIC PLACE
LONG BEACH, CALIFORNIA 90806

Prepared For: INSITE PROPERTY GROUP

ROUX

Compiled by: TSW	Date: 8/12/2019	FIGURE
Prepared by: TSW	Scale: 1:24,000	1
Project Mgr: JP	Office: LA	
File No: F(AP)	Project: 3370.0001L000	

S:\Clients\3370.0001L000 InSite Group Long Beach MHE\09Graphics\GIS\Figure 1 - Site Location Map.mxd

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LEGEND

- PROJECT BOUNDARY
- PARCEL BOUNDARY
- 2 — RECOGNIZED ENVIRONMENTAL CONDITION
- 5 — OTHER ENVIRONMENTAL FEATURE
- FORMER OIL WELL

N

150' 0 150'

Title:

SITE PLAN

3701 NORTH PACIFIC PLACE
LONG BEACH, CALIFORNIA 90806

Prepared for

INSITE PROPERTY GROUP

ROUX

Compiled by: CTR	Date: 25JULY2019
Prepared by: CTR	Scale: 1" = 150'
Project Mgr: JP	Project: 3370.0001L000
File: 008_3370.0001L_RECSOEFS.DWG	

FIGURE 2

APPENDICES

A. Glossary of Terms
B. Historical Topographic Maps
C. Historical Aerial Photographs
D. Certified Sanborn Report
E. EDR City Directory Image Report
F. EDR Radius Map Report with Geocheck®
G. Photographic Log
H. User Questionnaire
I. Regulatory Records Documentation
J. Pertinent Historical Documents

APPENDIX A

Glossary of Terms

GLOSSARY OF KEY TERMS

This appendix provides definitions, description of terms, and a list of acronyms for many of the words used in ASTM E 1527-13. These terms are an integral part of ASTM E 1527-13 and are critical to understanding ASTM E 1527-13 and its use.

DEFINITIONS:

Abandoned Property – *property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current *owner* to surrender rights to the *property*.

Activity and Use Limitations – 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 effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or *engineering controls*, 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 the *property*.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) – The list of sites compiled by EPA that EPA has investigated, or is currently investigating, for potential hazardous substance contamination for possible inclusion on the National Priorities List.

Construction debris – Concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

Contaminated public wells – Public wells used for drinking water that have been designated by a government entity as contaminated by toxic substances (for example, chlorinated solvents), or as having water unsafe to drink without treatment.

Contiguous Property Owner Liability Protection – a person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real *property* that is contiguous to, and that is or may be contaminated by *hazardous substances* from other real *property* that is not owned by that person. Furthermore, such person conducted *all appropriate inquiries* at the time of acquisition of the *property* and did not know or have reason to know that the *property* was or could be contaminated by a *release* or threatened *release* from the contiguous *property*. The *all appropriate inquiries* must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *contiguous property owner liability protection*.

Controlled Recognized Environmental Condition – a *recognized environmental condition* resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

CORRACTS list – a list maintained by EPA of *hazardous waste* treatment, storage, or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of *hazardous waste* beyond 90 days)

that have been notified by the U.S. Environmental Protection Agency to undertake corrective action under RCRA. The *CORRACTS list* is a subset of the EPA database that manages RCRA data.

Demolition debris – Concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

Drum – A container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store *hazardous substances* or *petroleum products.*

Dry wells – Underground areas where soil have been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional), and wastewater disposal (often illegal).

Dwelling – Structure of portion thereof used for residential habitation.

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 contaminants in the soil or groundwater on the property.

Environmental lien – A charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 USC § 9607(1) and similar state or local laws.

ERNS list – EPA's emergency response notification system list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such releases or spills are codified in 40 CFR parts 302 and 355.

Federal Register (FR) – Publication of the Untied States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the Federal Register.

Fire insurance maps – Maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the property. These maps are often available in local libraries, historical societies, private resellers, or from the map companies who produced them. See Question 23 of the transaction screen process in Practice E 1528 and 7.3.4.2 of this practice.

Hazardous substance – A substance defined as hazardous pursuant to CERCLA 42 USC § 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 Soil Waste Disposal Act (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 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 USC § 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; 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 the Solid Waste Disposal Cat (42 USC § 6921) (but not including any waste the regulation of which under the Solid Waste Disposal Act (42 USC § 6901 *et seq.*) has been suspended by Act of Congress). The Solid Waste Disposal Act of 1980 amended RCRA. RCRA defines hazardous waste, in 42 USC § 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."

Institutional control – A legal or administrative restriction (e.g., deed restriction, restrictive zoning) on the use of, or access to, a site or facility to reduce or eliminate potential exposure to contaminants in the soil or groundwater on the property.

Landfill – A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Local street directories – Directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often, local street directories are available at libraries of local governments, colleges or universities, or historical societies.

Material safety data sheet (MSDS) – Written or printed material concerning a hazardous substance which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA's Hazard Communication Standard, 29, CFR 1910.1200.

National Contingency Plan (NCP) – The National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 CFR § 300, that is the EPA's blueprint on how hazardous substances are to be cleaned up pursuant to CERCLA.

National Priorities List (NPL) – List compiled by the EPA, pursuant to CERCLA 42 USC § 9605(a)(8)(B), of properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System. See 40 CFR Part 300.

Occupants – Those tenants, subtenants, or other persons or entities using the *property* or a portion of the *property.*

Owner – Generally the fee owner of record for the *property*.

Petroleum exclusion – The exclusion from CERCLA liability provided in 42 USC § 9601(14), as interpreted by the courts and EPA: "The term (hazardous substance) 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)."

Petroleum products – Those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 USC § 9601(14), as interpreted by the courts and EPA, that is: 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 42 USC § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*[1]*.)*

Phase I Environmental Site Assessment – The process described in this practice.

Pits, ponds, or lagoons – Man-made or natural depressions in the ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an obvious wastewater discharge.

Property – The real property that is the subject of the *environmental site assessment* described in this practice. Real property includes buildings and other fixtures and improvement located on the property and affixed to the land.

Property tax files – The files kept for property tax purposes by the local jurisdiction where the property is located and includes records of past ownership, appraisals, maps, sketches, photos, or other information that is reasonable ascertainable and pertaining to the property.

RCRA generators – Those persons or entities that generate hazardous waste, as defined and regulated by RCRA.

RCRA generators list – List kept by the EPA of those persons or entities that generate hazardous wastes as defined and regulated by RCRA.

RCRA TSD facilities – Those facilities at which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA.

RCRA TSD facilities list – List kept by the EPA of those facilities at which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA.

Recorded land title records – Records of fee ownership, leases, land contracts, easements, liens, and other encumbrances on or of the property recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the property that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the property is located, are not considered part of recorded land title records.

Records of emergency release notifications (SARA § 304) – Section 304 of EPCRA or Title III of SARA requires operators of facilities to notify their local emergency planning committee (as defined in EPCRA) and the state emergency response commission (as defined in EPCRA) of any release beyond the facility's boundary of any reportable quantity of any extremely hazardous substance. Often the local fire department is the local emergency planning committee. Records of such notifications are "Records of Emergency Release Notifications" (SARA§ 304).

Report – The written record of a transaction screen process as required by Practice E 1528 or the written report prepared by the environmental professional and constituting part of a "Phase I Environmental Site Assessment," as required by this practice.

Solid waste disposal site – A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *landfill* and is also known as a garbage dump, trash dump, or similar term.

Solvent – A chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance,* used in a number of manufacturing/industrial processes including, but not limited to, the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

State registered USTs – State lists of underground storage tanks required to be registered under Subtitle I, Section 9002 of RCRA.

Sump – A pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

TSD facility – Treatment, storage, or disposal facility (*see RCRA TSD facilities*).

Underground storage tank (UST) - Any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

USGS 7.5 Minute Topographic Map – The map (if any) available from or produced by the United States Geological Survey, entitled "USGS 7.5 Minute Topographic Map," and showing the property.

Wastewater – Water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. Wastewater does not include water originating on or passing through or adjacent to a site, such as storm water flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

Zoning/land use records – Those records of the local government in which the *property* is located, indicating the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county.

DEFINITIONS SPECIFIC TO ASTM E 1527-13:

Actual knowledge – The knowledge actually possessed by an individual who is a real person, rather than an entity. Actual knowledge is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

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

Aerial photographs – Photographs taken from an airplane or helicopter (from a low enough altitude to allow identification of development and activities) of areas encompassing the property. Aerial photographs are often available from government agencies or private collections unique to a local area.

Appropriate inquiry – That inquiry constituting "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in CERCLA, 42 USC § 9601(35)(B), that will give a party to a *commercial real estate* transaction the *innocent landowner defense* to the CERCLA liability (42 USC § 9601(A) and (B) and § 9607(b)(3)), assuming compliance with other elements of the defense. See Appendix X1.

Approximate minimum search distance – The area for which records must be obtained and reviewed pursuant to Section 7 subject to the limitations provided in that section. This may include areas outside the *property* and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly-shaped properties.

Building department records – Those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property. Often, building department records are located in the building department of a municipality or county.

Business environmental risk – A risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may necessitate that an *environmental professional* address one or more non-scope considerations, some of which are identified in Section 12.

Commercial real estate – Any real property except a dwelling or property with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwellings for profit). This term includes, but is not limited to, undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units; and any property with no more than four dwelling units for residential use when it has a commercial function, as in the building of such dwellings for profit.

Commercial real estate transaction – A transfer of title to or possession of real property or receipt of a security interest in real property, except that it does not include transfer of title to or possession of real property or the receipt of a security interest in real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by persons or entities in the business of building or developing dwelling units.

Controlled Recognized Environmental Condition – a *recognized environmental condition* resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

Due diligence – The process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes.

Environmental audit – The investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe Practice E 1528 or this practice, although an environmental audit may include an *environmental site assessment* or, if prior audits are available, may be part of an environmental site assessment.

Environmental professional – A person processing sufficient training and experience necessary to conduct a *site reconnaissance, interviews,* and other activities in accordance with this practice, and from the information generated by such activities, having the ability to develop opinions and conclusions regarding *recognized environmental conditions* in connection with the *property* in question. An individual's status as an environmental professional may be limited to the type of assessment to be performed or to specific segments of the assessment for which the professional is responsible. The person may be an independent contractor or an employee of the *user.*

Environmental site assessment (ESA) – The process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions.* At the option of the *user*, an environmental site assessment may include more inquiry than that constituting *appropriate inquiry* or, if the user is not concerned about qualifying for the *innocent landowner defense,* less inquiry than that constituting *appropriate inquiry.* An environmental site assessment is both different from and less rigorous than an *environmental audit.*

Fill dirt – Dirt, soil, sand, or other earth, obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real property. It does not include material that is used in limited quantities for normal landscaping activities.

Hazardous waste/contaminated sites – Sites on which a release has occurred, or is suspected to have occurred, of any *hazardous substance, hazardous waste,* or *petroleum products,* and that release or suspected release has been reported to a government entity.

Historical Recognized Environmental Condition – a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*). Before calling the past *release* a *historical recognized environmental condition*, the *environmental professional* must determine whether the past *release* is a *recognized environmental condition* at the time the *Phase I Environmental Site Assessment* is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past *release* to be a *recognized environmental condition* at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a *recognized environmental condition*.

Innocent landowner defense – That defense to CERCLA liability provided in 42 USC § 9601(35) and § 9607(b)(3). One of the requirements to qualify for this defense is that the party make "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice." There are additional requirements to qualify for this defense.

Interviews – Those portions of this practice that are contained in Section 9 and 10 thereof and address questions to be asked of *owners* and *occupants* of the *property* and questions to be asked of local government officials.

Key site manager – The person identified by the *owner* of a *property* as having good knowledge of the uses and physical characteristics of the property.

Local government agencies – Those agencies of municipal or county government having jurisdiction over the *property.* Municipal and county government agencies include, but are not limited to, cities, parishes, townships, and similar entities.

LUST sites – State lists of leaking underground storage tank sites. Section 9003 (h) of Subtitle I of RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up releases from UST systems or require owners and operators to do so.

Major occupants – Those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the *property* or any anchor tenant when the *property* is a shopping center.

Material threat – A physically observable or obvious threat which is reasonable likely to lead to a release that, in the opinion of the *environmental professional,* is threatening and might result in impact to human health and the environment. An example might include an aboveground storage tank that contains a hazardous substance and which shows evidence of damage. The damage would represent a material threat if it is deemed serious enough that it may cause or contribute to tank integrity failure with a release of contents to the environment.

Obvious – That which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while *visually* or *physically observing the property.*

Other historical sources – Any source or sources other than those designated in 7.3.4.1-7.3.4.8 that are credible to a reasonable person and that identify past uses of the property. The term includes, but is not limited to, miscellaneous maps, newspaper archives, and records in the files and/or personal knowledge of the *property owner* and/or *occupants.*

Physical setting sources – sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a *property.*

Practically reviewable – Information that is practically reviewable means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the user can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable.* Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally practically reviewable. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered practically reviewable. For large databases with numerous facility records (such as RCRA hazardous waste generators and registered underground storage tanks), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be

identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, then so much data is generated that it cannot be feasibly reviewed for its impact on the *property,* it is not *practically reviewable.*

Preparer – The person preparing the *transaction screen questionnaire* pursuant to Practice E 1528, who may be either the user or the person to whom the user has delegated the preparation of the *transaction screen questionnaire.*

Publicly available – Information that is publicly available means that the source of the information allows access to the information by anyone upon request.

Reasonably ascertainable – For purposes of both this practice and Practice E 1528, information that is (1) *publicly available,* (2) obtainable from its source within reasonable time and cost constraints, and (3) *practically reviewable.*

Recognized Environmental Conditions – the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (*1*) due to release to the environment; (*2*) under conditions indicative of a *release* to the *environment*; or (*3*) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.

Records review – That part that is contained in Section 7 of this practice addresses which records shall or may be reviewed.

Site reconnaissance – That part that is contained in Section 8 of this practice 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 to the property during which observations are made constituting the *site reconnaissance* section of this practice and the *site visit* requirement of Practice E 1528.

Standard environmental record sources – Those records specified in 7.2.1.1.

Standard historical sources – Those sources of information about the history of uses of the property specified in 7.3.4.

Standard physical setting source – A current USGS 7.5-minute topographic map (if any) showing the area on which the property is located.

Standard practice(s) – The activities set forth in either and both this practice and Practice E 1528.

Standard sources – Sources of environmental, physical setting, or historical records specified in Section 7 of this practice.

Transaction screen process – The process described in Practice E 1528.

Transaction screen questionnaire – The questionnaire provided in Section 6 of Practice E 1528.

User – The party seeking to use Practice E 1528 to perform an *environmental site assessment* of the *property*. A user may include, without limitation, a purchaser of *property,* a potential tenant of *property,* an *owner* of *property,* a lender, or a property manager.

Visually and/or physically observed – During a *site visit* pursuant to Practice E 1528, or pursuant to this practice, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term "walking through" is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit;* they may do so by the means at their disposal for moving through the *property* and the structures located on it.

ACRONYMS:

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 USC § 9601 *et seq.*)

CERCLIS – Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA)

CFR – Code of Federal Regulations

CORRACTS – Facilities subject to corrective action under RCRA

EPA – United States Environmental Protection Agency

EPCRA – Emergency Planning and Community Right to Know Act (also known as SARA Title III), 42 USC § 11001 *et seq.*)

ERNS – Emergency response notification system

ESA – Environmental site assessment (different than an *environmental audit*)

FOIA – U.S. Freedom of Information Act (5 USC 552 *et seq.*)

FR – Federal Register

LUST – Leaking underground storage tank

MSDS – Material safety data sheet

NCP – National Contingency Plan

APPENDIX B

Historical Topographic Maps

3701 N Pacific Place

3701 N Pacific Place

Long Beach, CA 90806

Inquiry Number: 5729718.4

July 25, 2019

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

07/25/19

Site Name:

3701 N Pacific Place
3701 N Pacific Place
Long Beach, CA 90806
EDR Inquiry # 5729718.4

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Holly Hutcheson

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Roux Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Pacific Place- Long Beach

Coordinates:

Latitude:	33.827419 33° 49' 39" North
Longitude:	-118.202981 -118° 12' 11" West
UTM Zone:	Zone 11 North
UTM X Meters:	388680.02
UTM Y Meters:	3743671.44
Elevation:	45.00' above sea level

Maps Provided:

2012	1930
1981	1924, 1925
1972	1902
1964	1899
1949	1896
1947	
1943	
1942	

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Topo Sheet Key

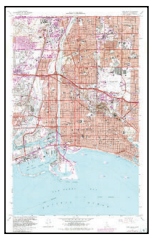
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Long Beach

7.5-minute, 24000

1981 Source Sheets



Long Beach

7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

Long Beach

7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets

Long Beach

7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

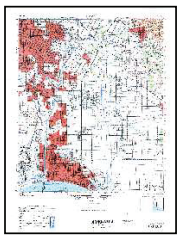
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1949 Source Sheets

Long Beach

7.5-minute, 24000

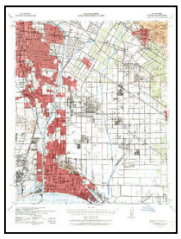
1947 Source Sheets



DOWNEY

15-minute, 50000

1943 Source Sheets



Downey

15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets

Downey

15-minute, 62500

Topo Sheet Key

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

1930 Source Sheets

Compton

7.5-minute, 24000

1924, 1925 Source Sheets

Compton

7.5-minute, 24000

Clearwater

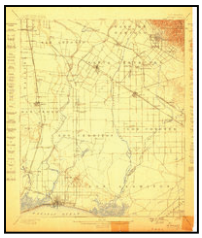
7.5-minute, 24000

1902 Source Sheets

Downey

15-minute, 62500

1899 Source Sheets



Downey

15-minute, 62500

Topo Sheet Key

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

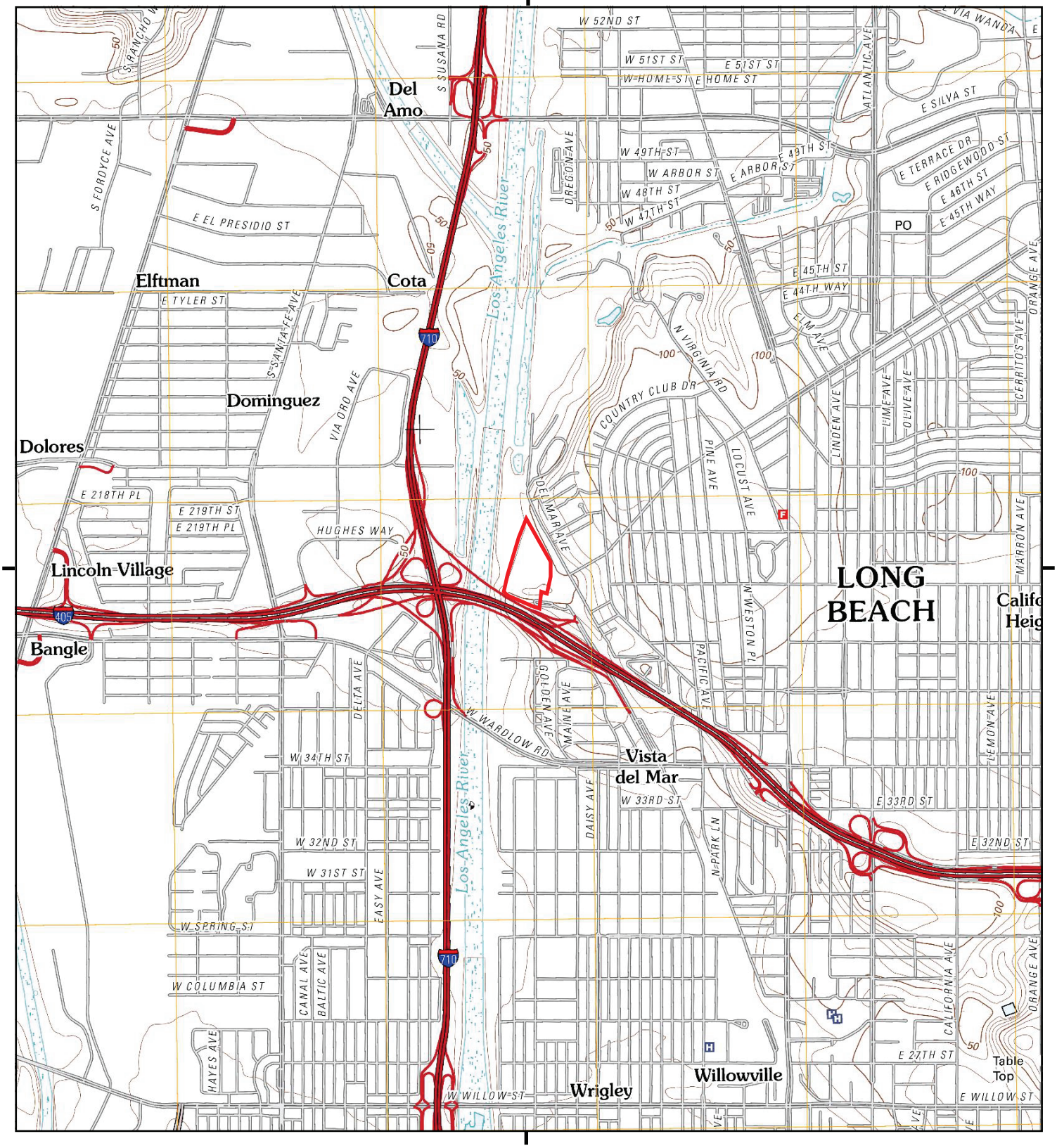
1896 Source Sheets

Downey

15-minute, 62500

Historical Topo Map

2012



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

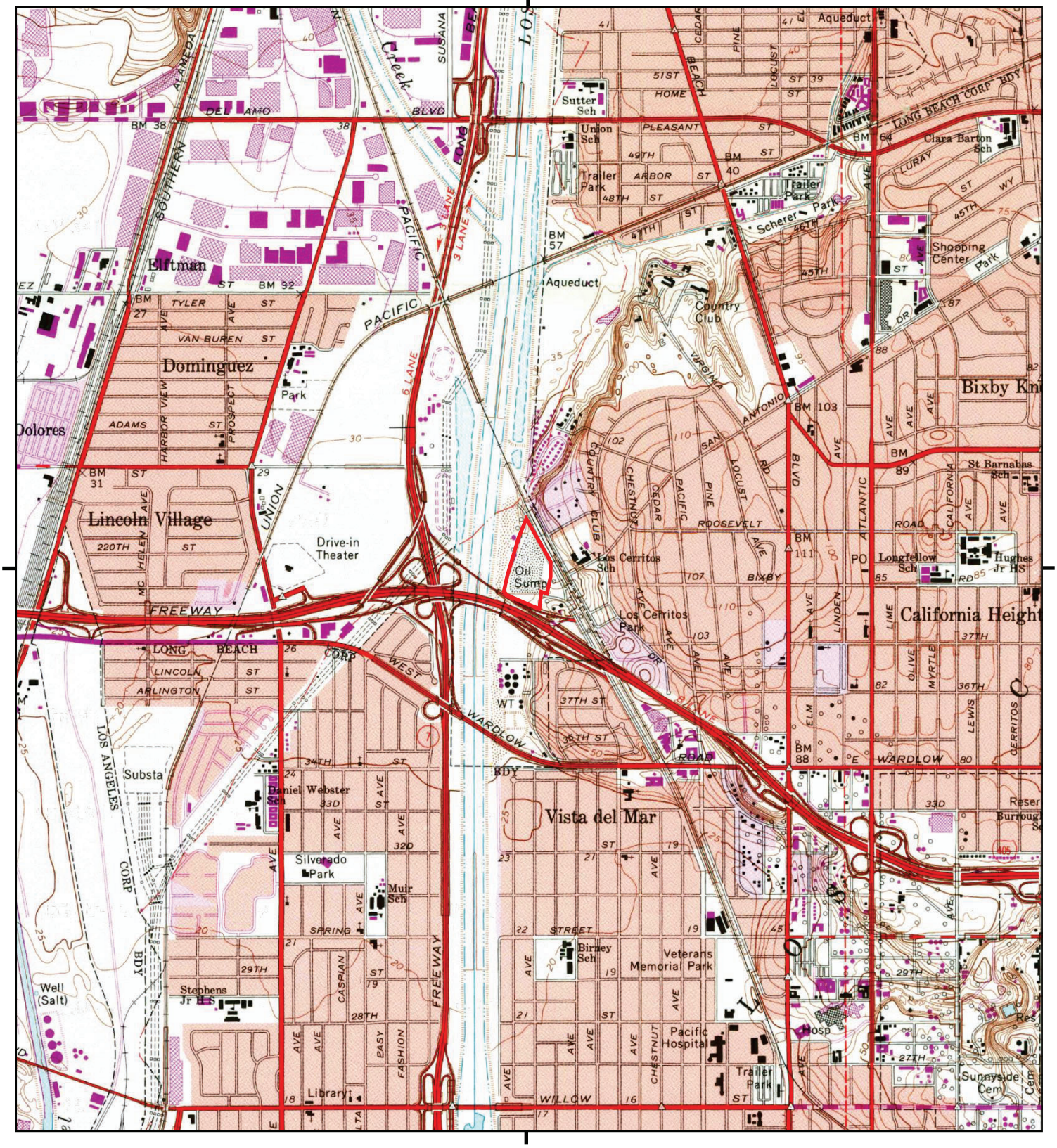
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Long Beach, 2012, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

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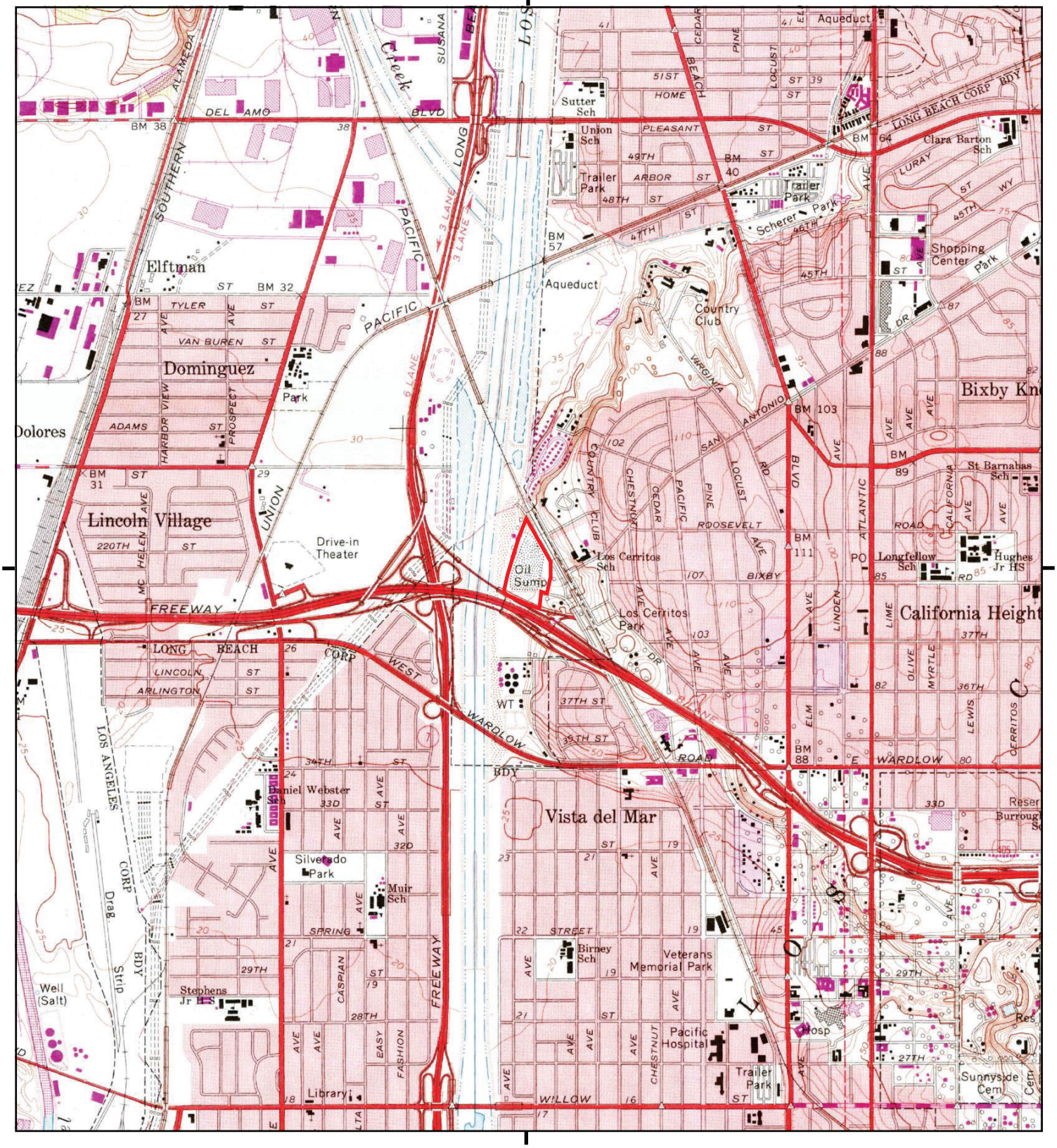
NW N NE
W E
SW S SE

TP, Long Beach, 1981, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

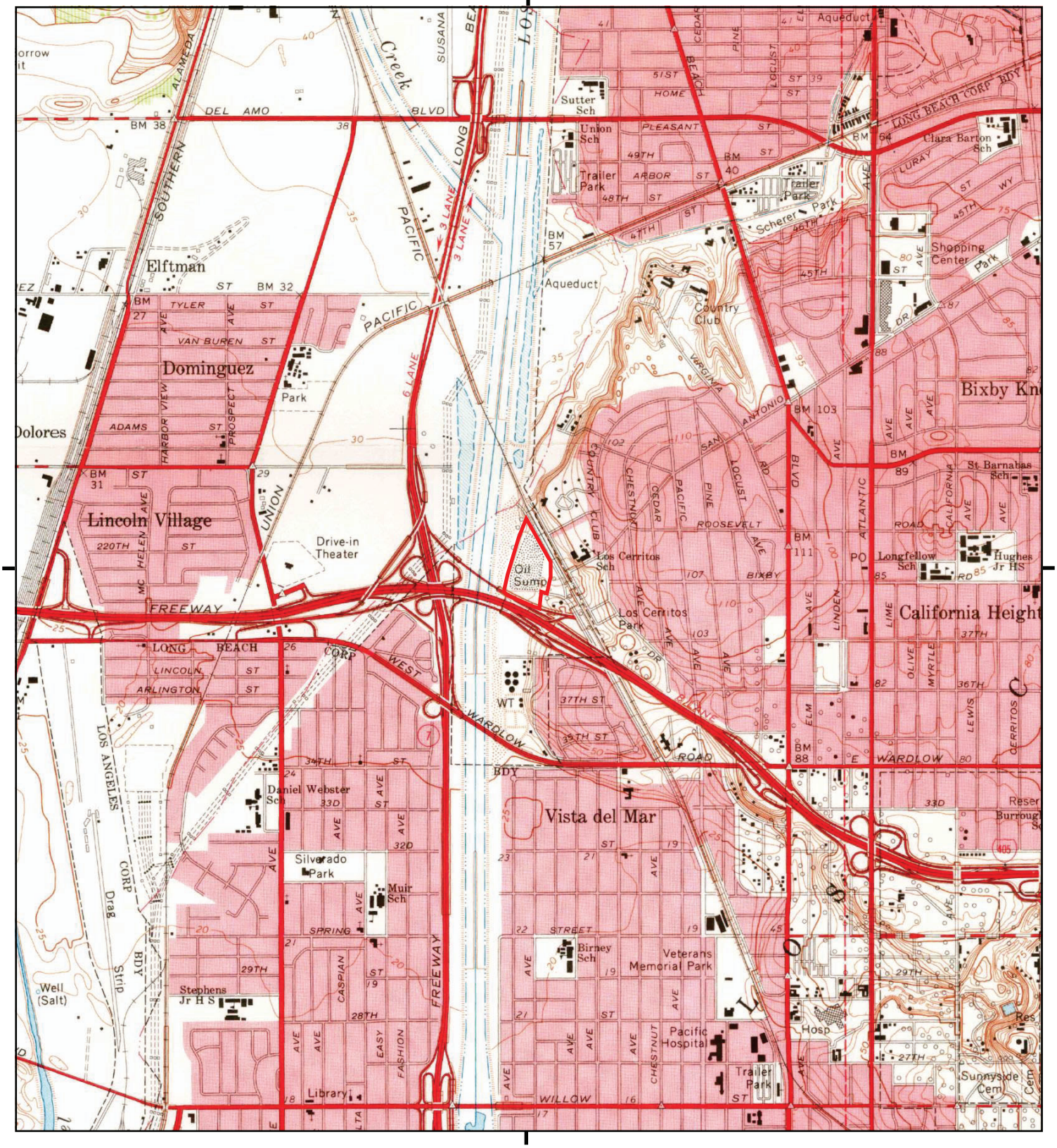
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Long Beach, 1972, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

NW N NE
W E
SW S SE

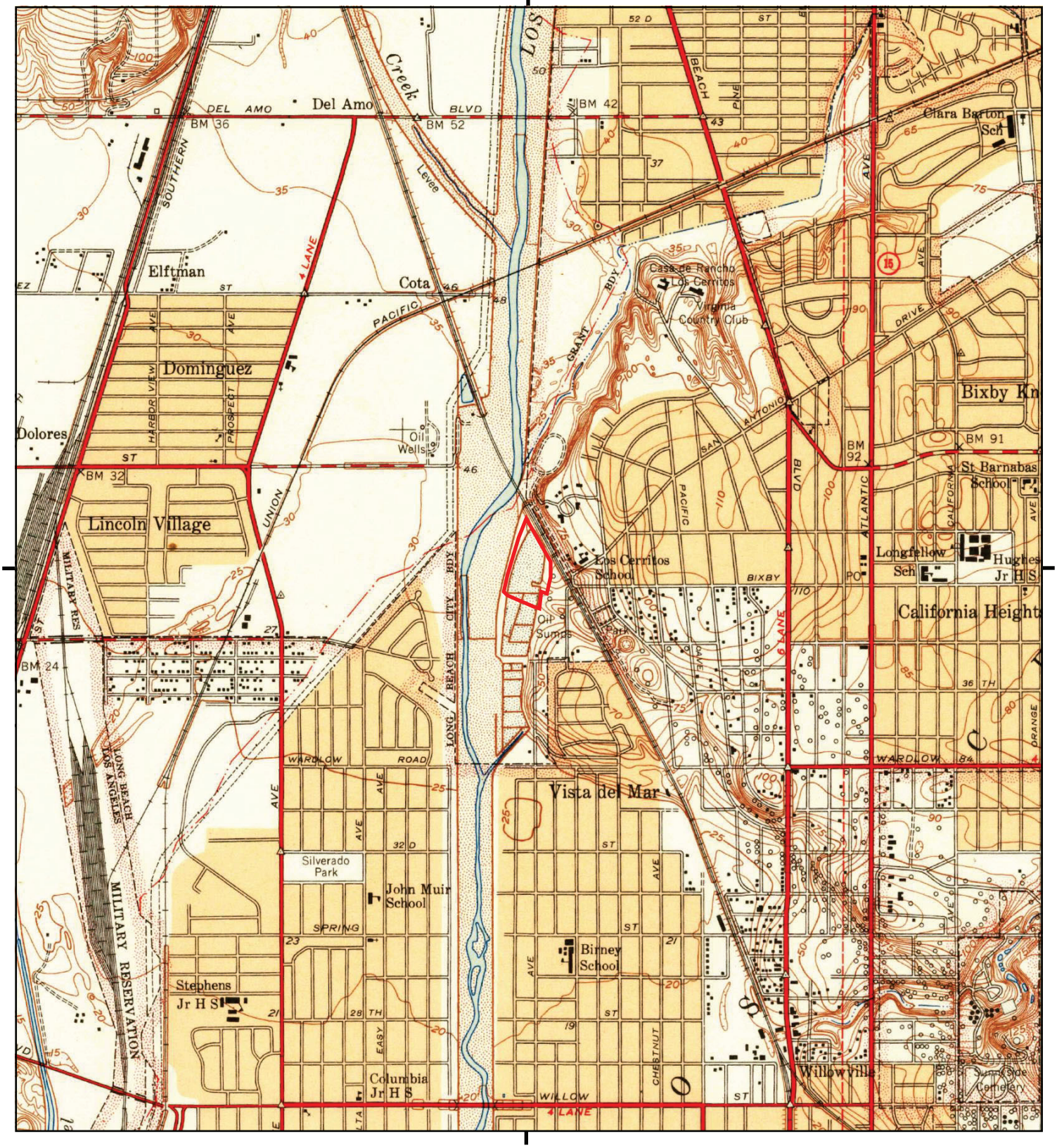
TP, Long Beach, 1964, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N

Historical Topo Map

1949



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

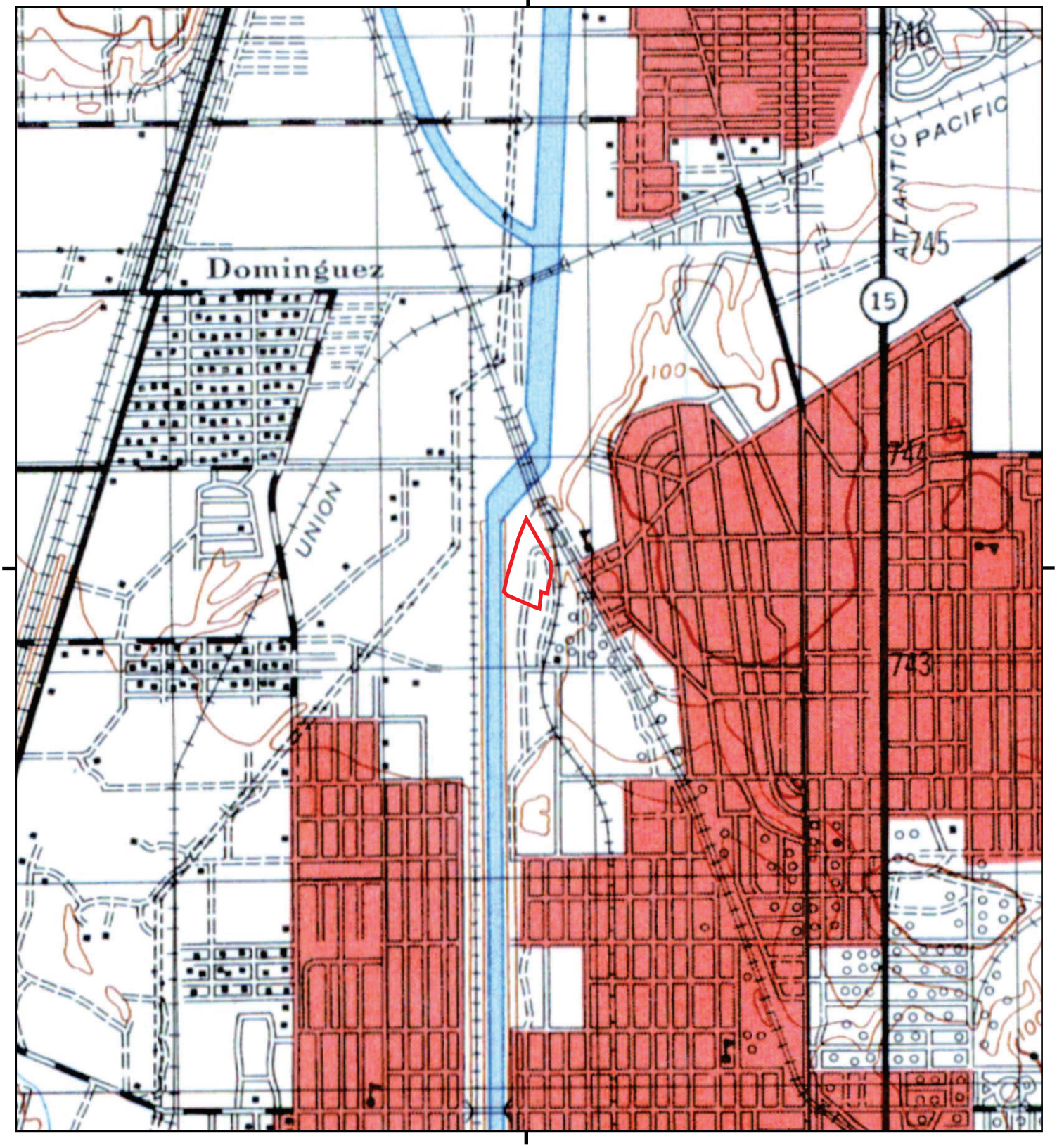
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Long Beach, 1949, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

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

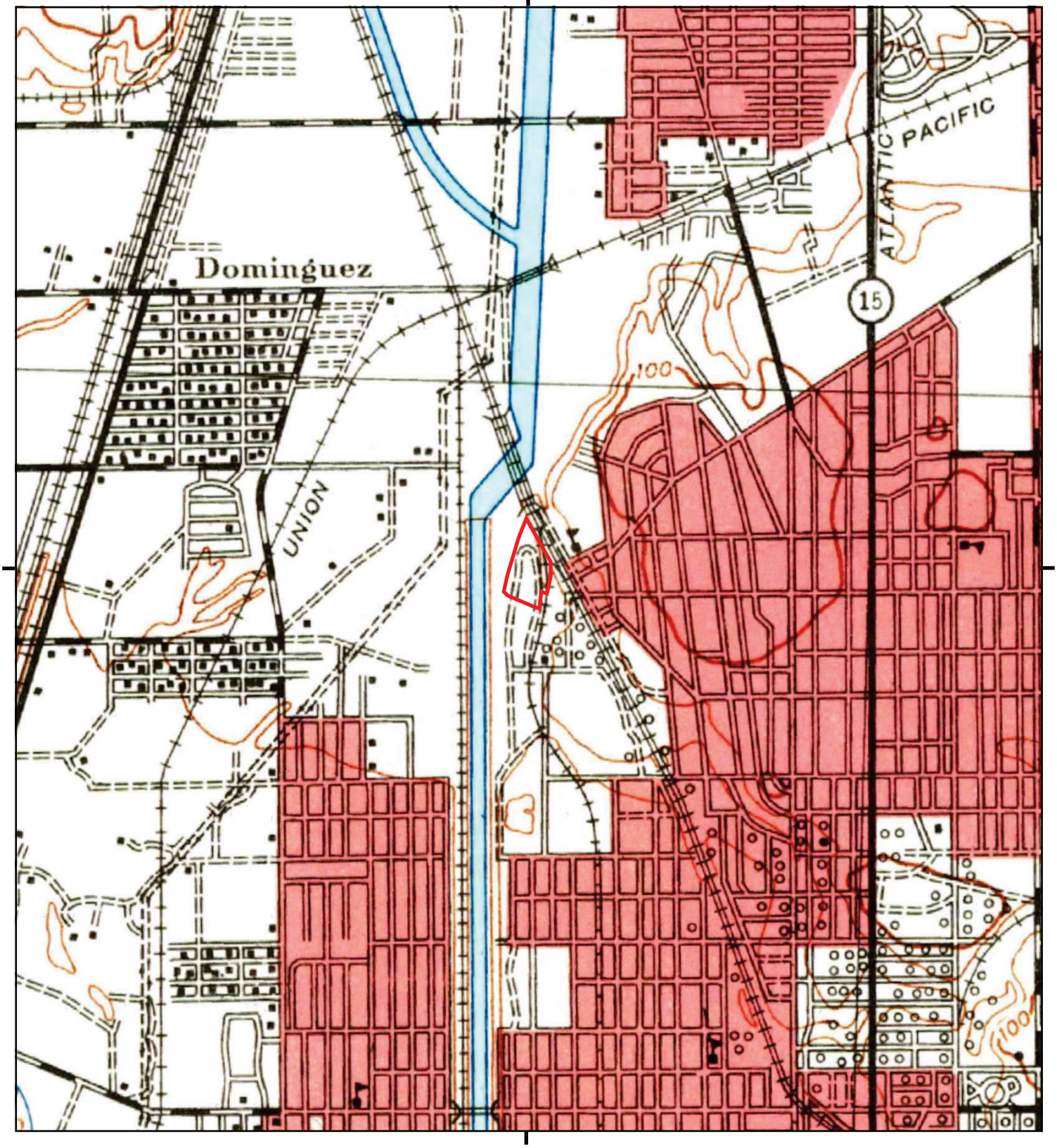
TP, DOWNEY, 1947, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N

Historical Topo Map

1943



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

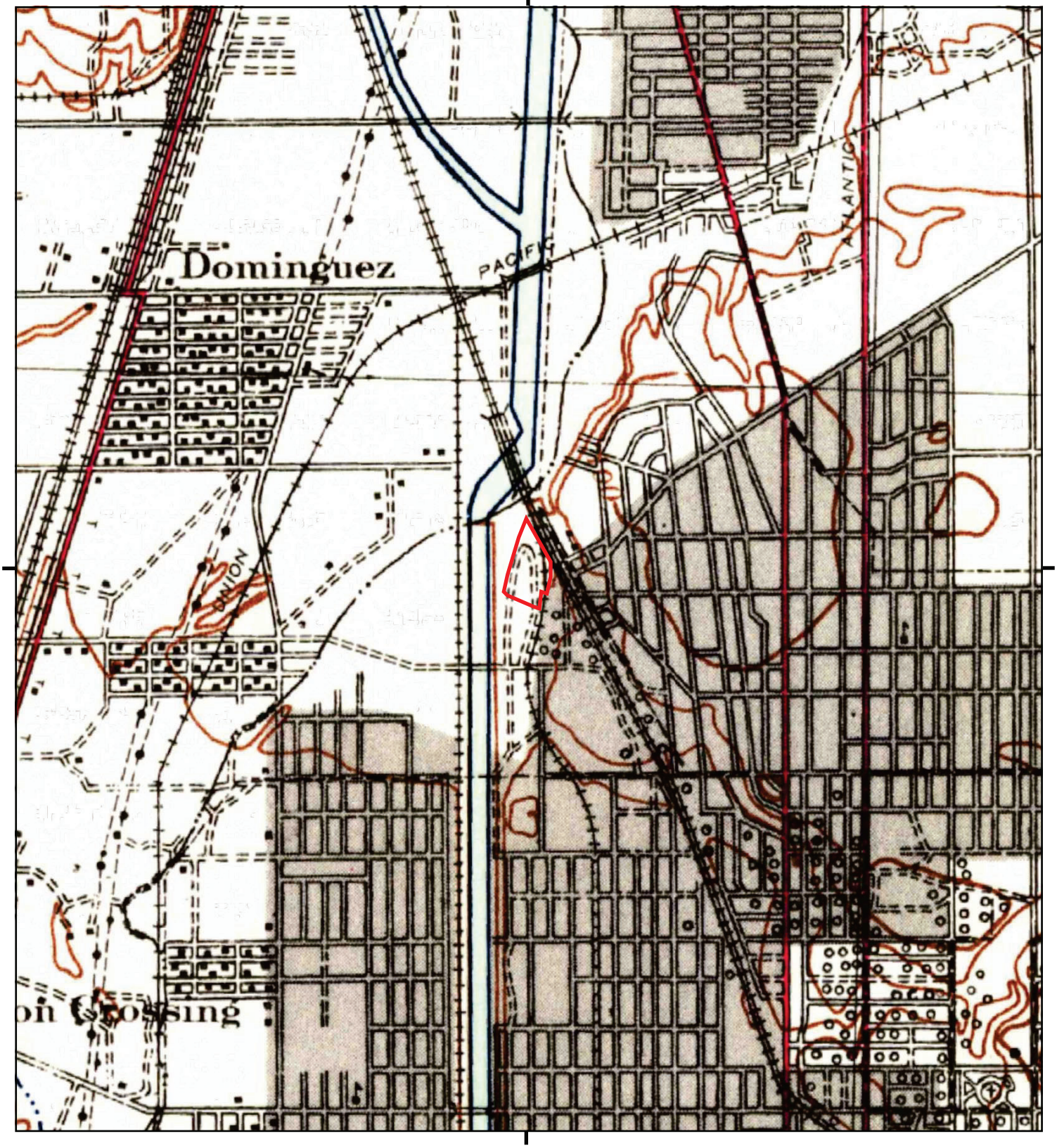
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1943, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

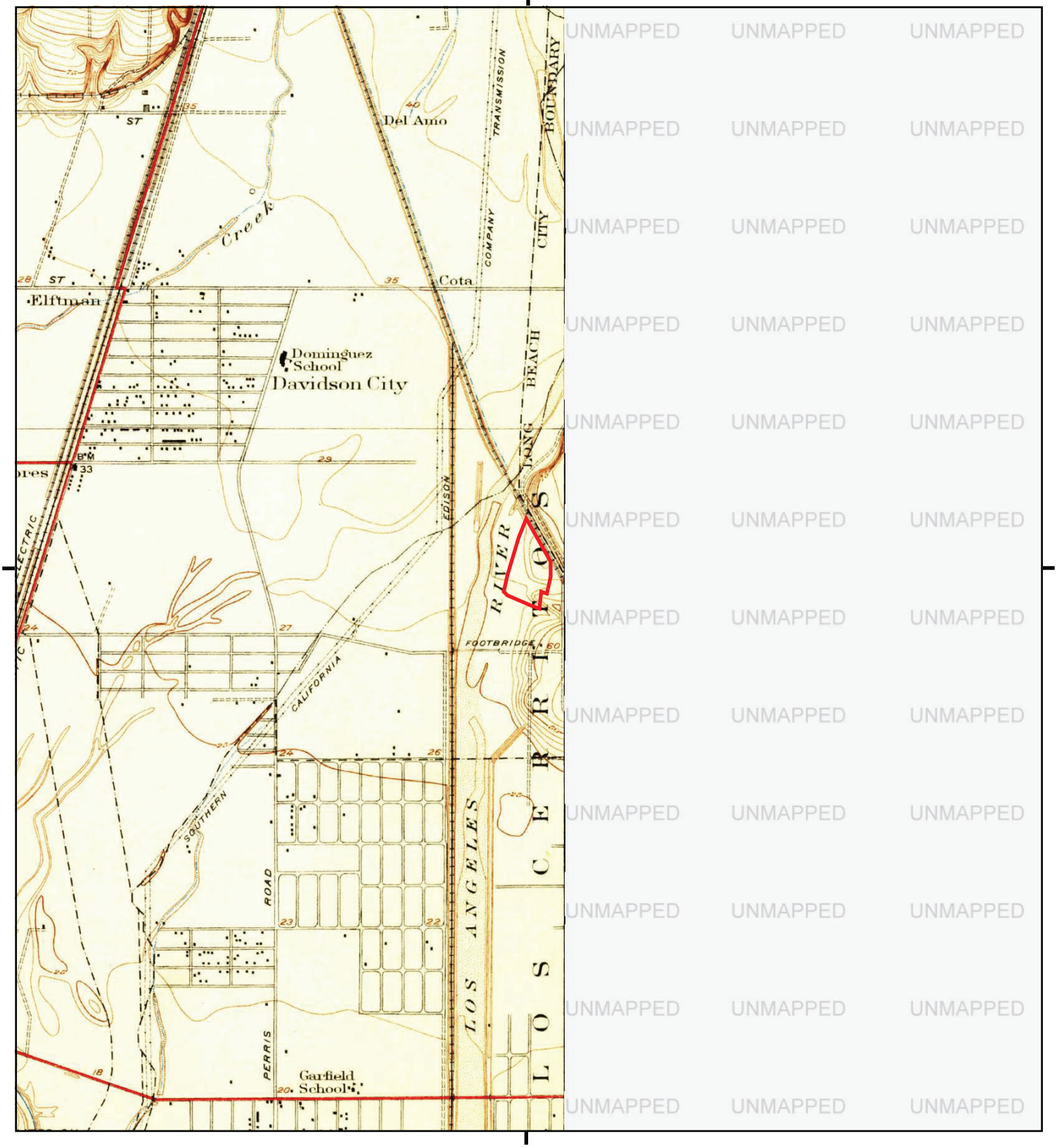
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1942, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

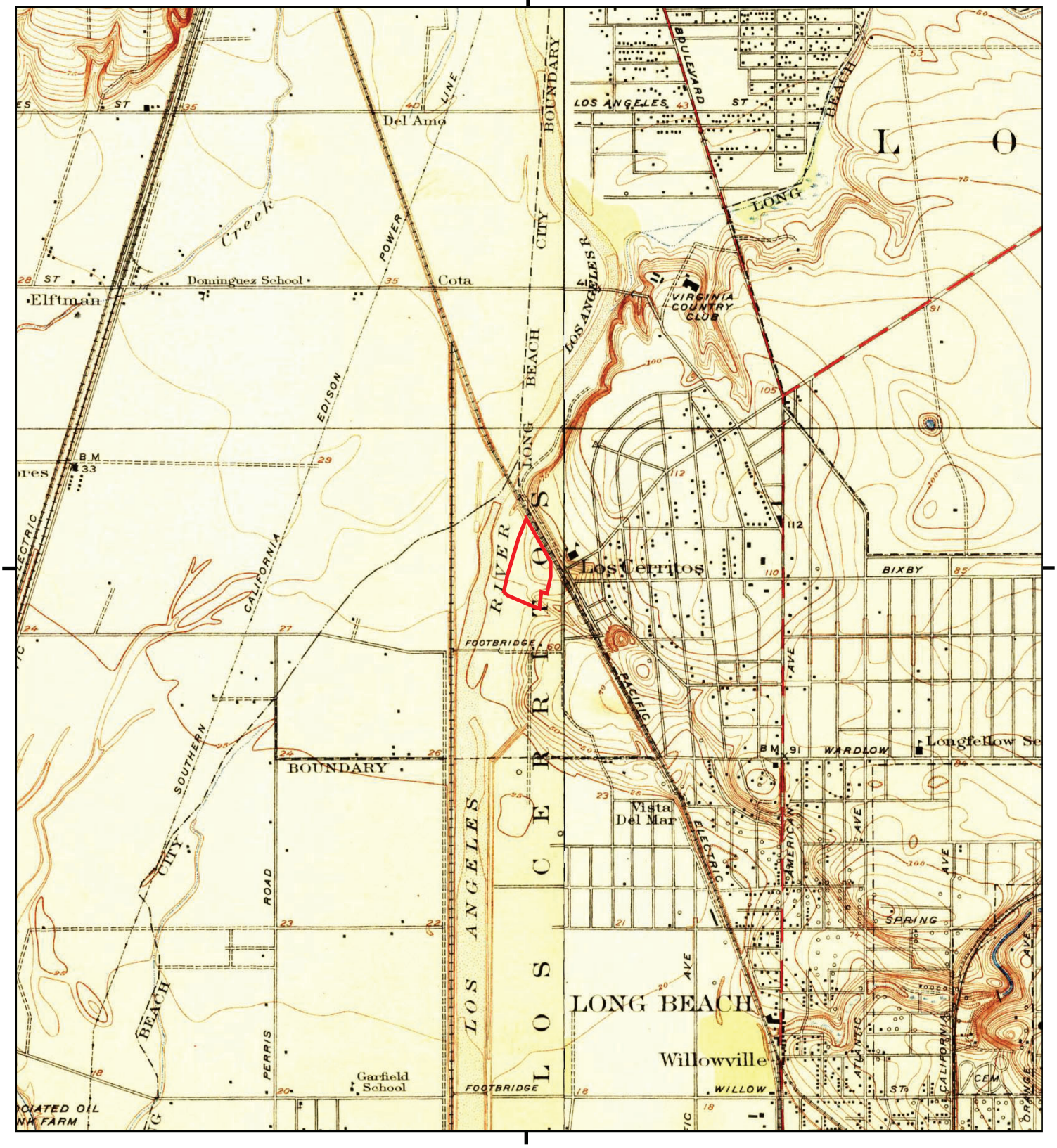
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Compton, 1930, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

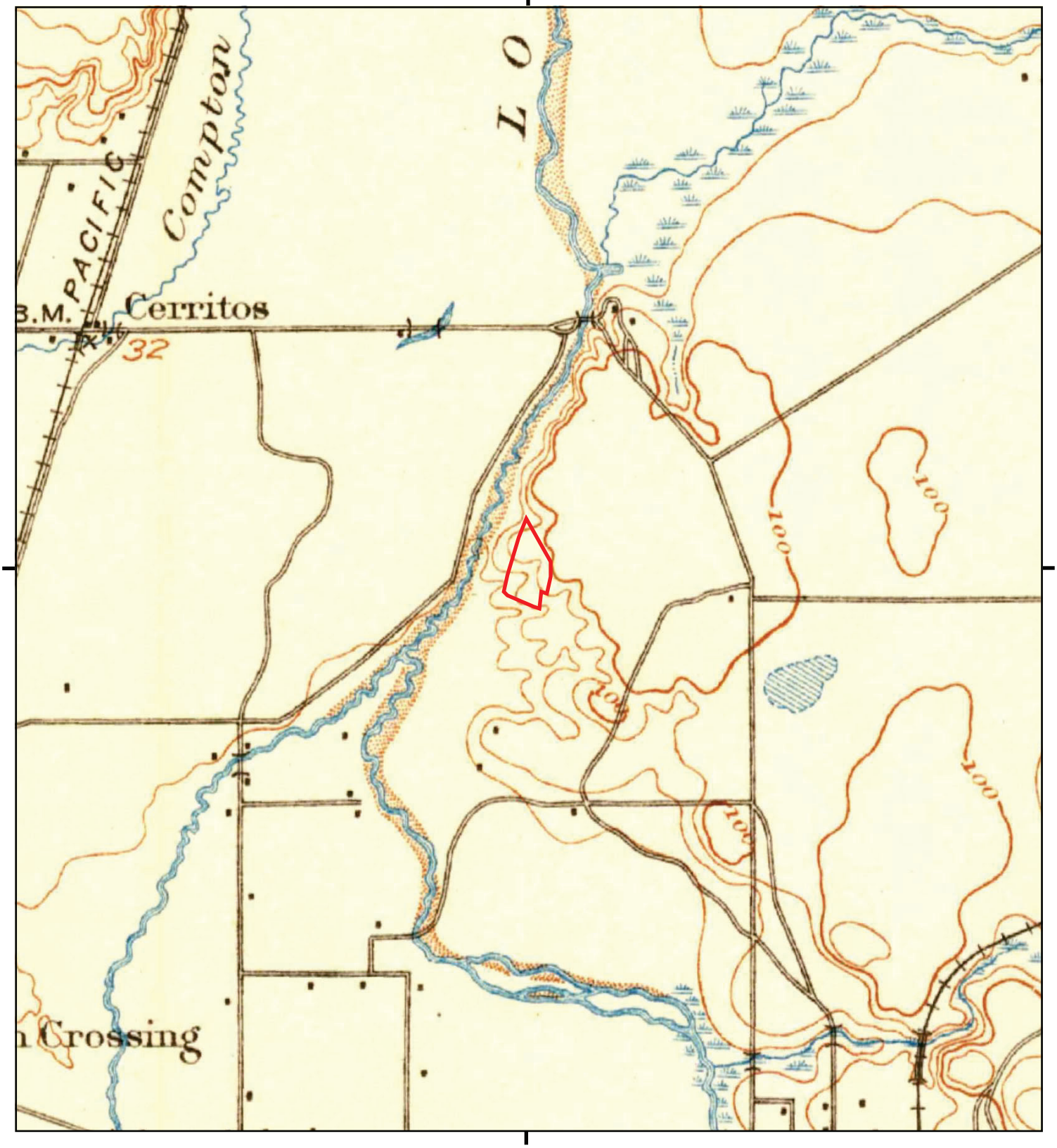
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Compton, 1924, 7.5-minute
NE, Clearwater, 1925, 7.5-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

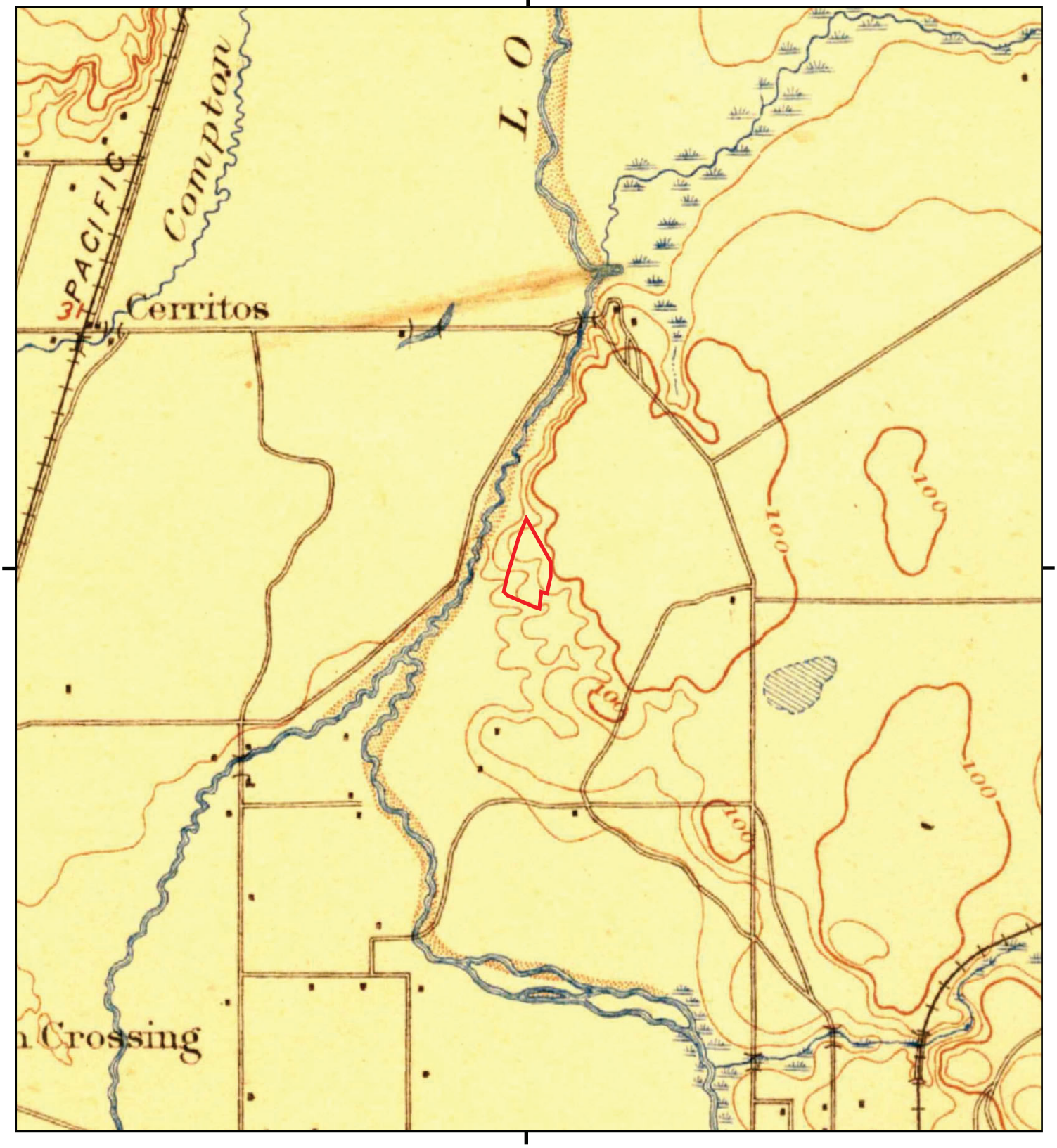
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1902, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N



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

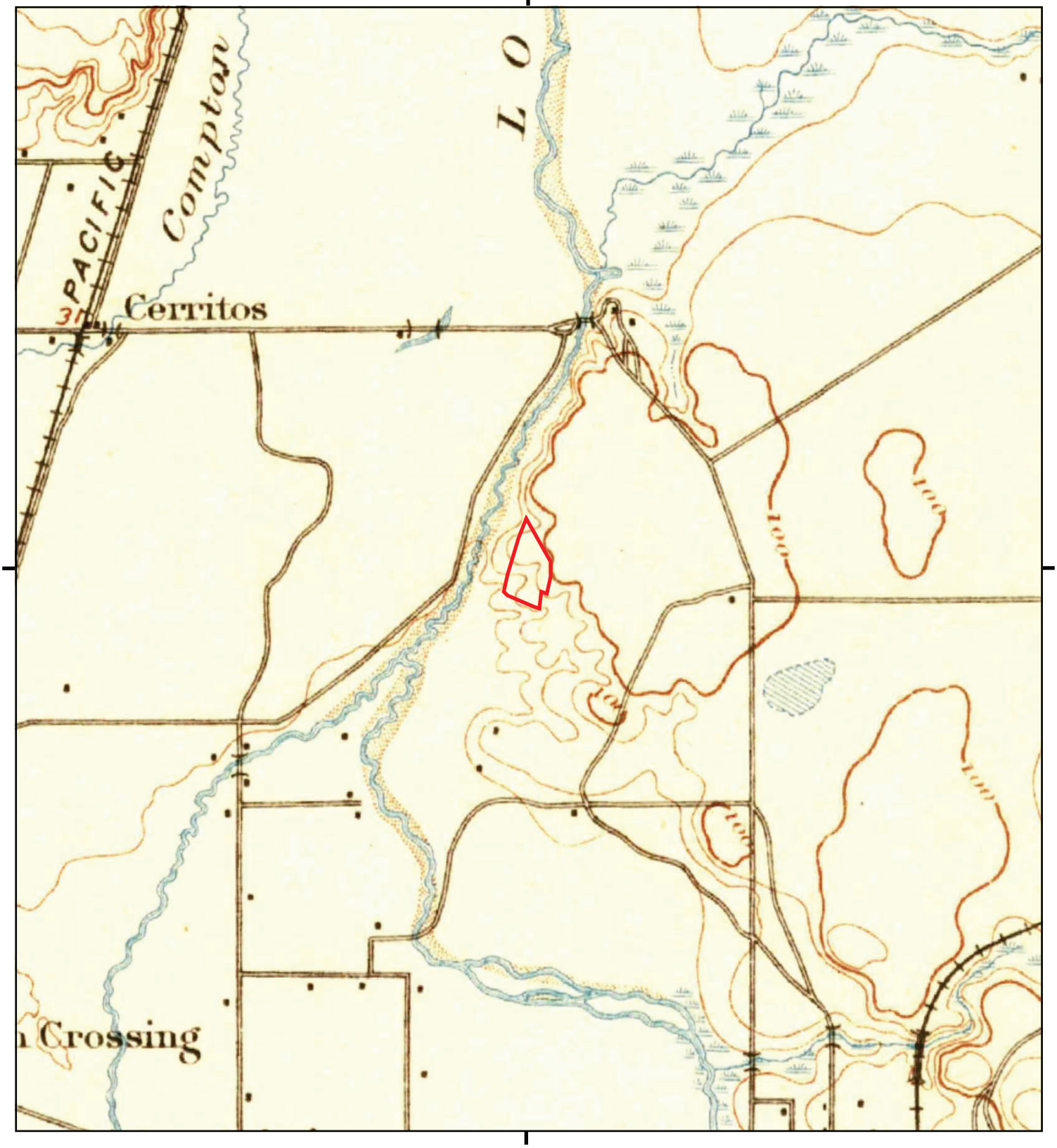
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Downey, 1899, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

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, Downey, 1896, 15-minute

SITE NAME: 3701 N Pacific Place
ADDRESS: 3701 N Pacific Place
Long Beach, CA 90806
CLIENT: Roux Associates

N

APPENDIX C

Historical Aerial Photographs

3701 N Pacific Place

3701 N Pacific Place

Long Beach, CA 90806

Inquiry Number: 5729718.8

July 26, 2019

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

07/26/19

Site Name:

3701 N Pacific Place
3701 N Pacific Place
Long Beach, CA 90806
EDR Inquiry # 5729718.8

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Holly Hutcheson

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1981	1"=500'	Flight Date: February 21, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 24, 1972	EDR Proprietary Brewster Pacific
1963	1"=500'	Flight Date: February 28, 1963	USGS
1953	1"=500'	Flight Date: October 19, 1953	USDA
1947	1"=500'	Flight Date: June 17, 1947	FAIR
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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INQUIRY #: 5729718.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 5729718.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 5729718.8

YEAR: 2009

= 500'

N

EDR

INQUIRY #: 5729718.8

YEAR: 2005

= 500'

N

EDR

INQUIRY #: 5729718.8
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 5729718.8

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 5729718.8
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 5729718.8

YEAR: 1981

= 500'

N

EDR

INQUIRY #: 5729718.8
YEAR: 1977
= 500'
N
EDR

INQUIRY #: 5729718.8

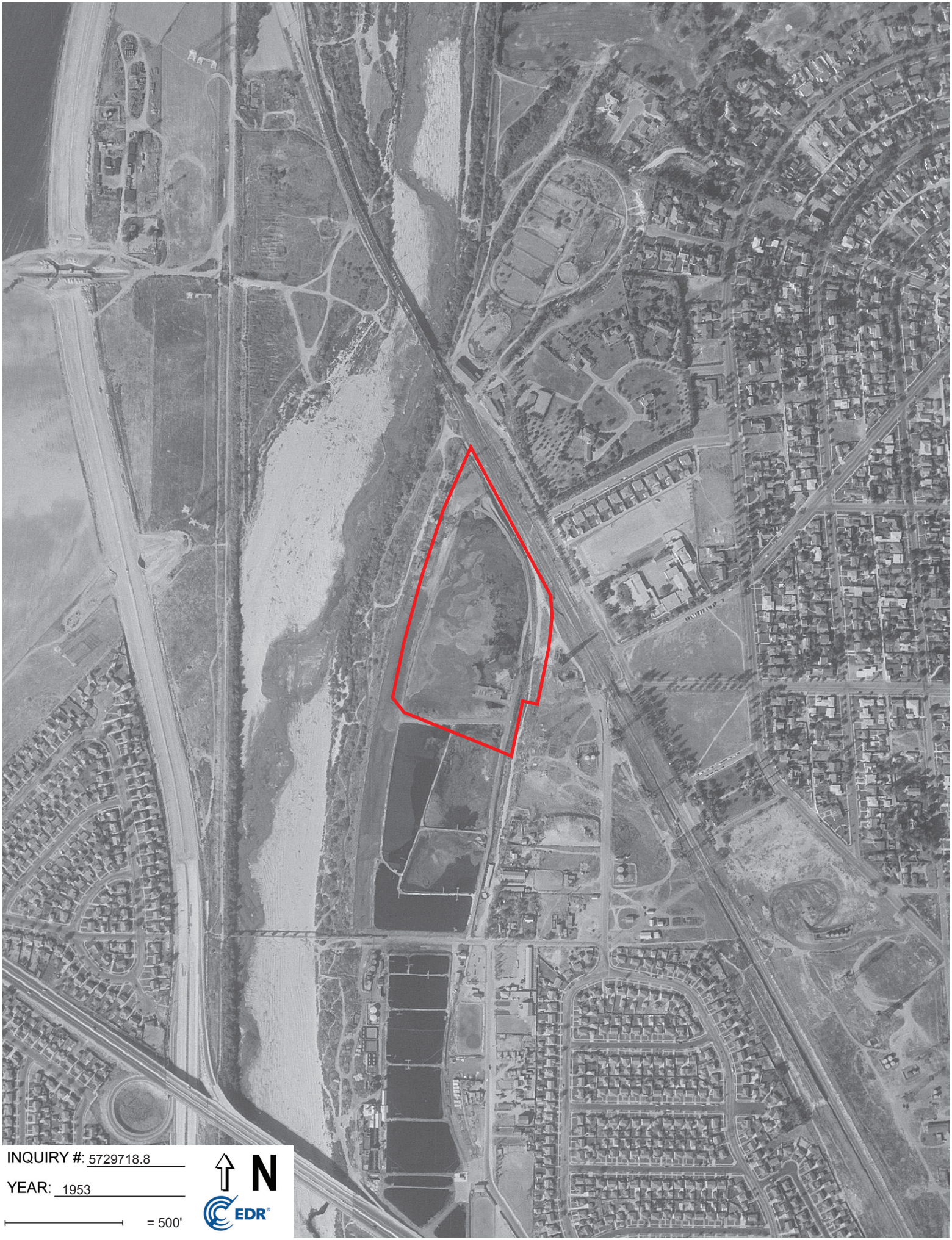
YEAR: 1972

= 500'

N

EDR

INQUIRY #: 5729718.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 5729718.8
YEAR: 1953
= 500'
N
EDR

INQUIRY #: 5729718.8
YEAR: 1947
= 500'
N
EDR

INQUIRY #: 5729718.8

YEAR: 1928

= 500'

N

EDR

APPENDIX D

Certified Sanborn Report

3701 N Pacific Place

3701 N Pacific Place

Long Beach, CA 90806

Inquiry Number: 5729718.3

July 26, 2019

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

07/26/19

Site Name:

3701 N Pacific Place
3701 N Pacific Place
Long Beach, CA 90806
EDR Inquiry # 5729718.3

Client Name:

Roux Associates
402 Heron Drive
Logan Township, NJ 08085-0000
Contact: Holly Hutcheson

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

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # EBCA-4D48-89BA

PO # NA

Project Pacific Place- Long 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 #: EBCA-4D48-89BA

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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EDR City Directory Image Report

3701 N Pacific Place
3701 N Pacific Place
Long Beach, CA 90806

Inquiry Number: 5729718.5
August 01, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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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 Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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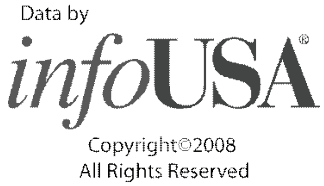

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	X	-	X	-
2010	EDR Digital Archive	X	-	X	-
2006	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Haines	-	X	X	-
	Haines	X	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	X	X	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	X	X	-
1963	Pacific Telephone	-	X	X	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	X	X	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	X	X	-
1952	Los Angeles Directory Co.	-	X	X	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	X	X	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	The Glendale Directory Co.	-	-	-	-
1944	R. L. Polk & Co.	-	X	X	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	X	X	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	X	X	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3701 N Pacific Place
Long Beach, CA 90806

FINDINGS DETAIL

Target Property research detail.

PACIFIC PL

3701 PACIFIC PL

Year	Uses	Source
2014	LONG BEACH GOLF LRNG CTR LLC	EDR Digital Archive
	UT GOLF	EDR Digital Archive
2010	SANDWEDGE CAFE	EDR Digital Archive
	UT GOLF	EDR Digital Archive
	VINUEZA WILSON P	EDR Digital Archive
2006	LEARNING CENTER ROGERDUNNGOLF	Haines Company, Inc.
	LONG BCH GOLF	Haines Company, Inc.
	SHOP SANDWEDGECAFE	Haines Company, Inc.

PACIFIC PL N

3701 PACIFIC PL N

Year	Uses	Source
2000	AVID GOLFERS INFORMATION CENTER	Haines
	CLUB WORKS THE	Haines
	LONG BCH GOLF LEARNING CENTER	Haines
	U T GOLF	Haines
	X AMEBCO RD	Haines

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

39TH ST

606 39TH ST

Year	Uses	Source
1969	ZITZMAN CHARLES W	Pacific Telephone

612 39TH ST

Year	Uses	Source
1969	ROSS MARY V MRS	Pacific Telephone

618 39TH ST

Year	Uses	Source
1969	JONES JEAN J	Pacific Telephone

622 39TH ST

Year	Uses	Source
1969	ROSS GLENN RP	Pacific Telephone

628 39TH ST

Year	Uses	Source
1969	MAYNARD OLIVE S MRS	Pacific Telephone

632 39TH ST

Year	Uses	Source
1969	BRODERSEN ORD B	Pacific Telephone

638 39TH ST

Year	Uses	Source
1969	CHAUSER JACK	Pacific Telephone

BAKER ST

641 BAKER ST

Year	Uses	Source
1969	VACANT	Pacific Telephone
1963	Encinas Gregory M	Pacific Telephone

FINDINGS

643 BAKER ST

Year	Uses	Source
1969	RIDS FRANK P	Pacific Telephone
1963	Rios Frank P G	Pacific Telephone

COUNTRY CLUB DR

3730 COUNTRY CLUB DR

Year	Uses	Source
1985	WETHERILL FRANK E	Pacific Bell
	Wetherill Frank E	Pacific Bell
1980	DAY CHAS P	Pacific Telephone
	Day Chas P	Pacific Telephone
1975	Day Chas P	Pacific Telephone
	DAY CHAS P	Pacific Telephone
1964	DAY CHAS P	Pacific Telephone
1960	DAY CHAS P	Pacific Telephone
1957	DAY CHAS P	Pacific Telephone
	Day Chas P Oga	Pacific Telephone

3742 COUNTRY CLUB DR

Year	Uses	Source
2006	/ BURNISTON Mark	Haines Company, Inc.
1991	Hungerford Roger	Pacific Bell
1975	BURNISTON THOS R	Pacific Telephone
	Burniston Thos R	Pacific Telephone
	Crayton Jas	Pacific Telephone
1960	ESPOY HENRY M	Pacific Telephone
1957	Espoy Henry M ga	Pacific Telephone
1952	Mc Omie R W	Los Angeles Directory Co.
1944	AH 12rgina G	R. L. Polk & Co.
1939	Vacant	Los Angeles Directory Co.
1935	Long C W to	Los Angeles Directory Co.
1931	Long C W o	Los Angeles Directory Co.

3748 COUNTRY CLUB DR

Year	Uses	Source
2006	MICKAELIANSteven	Haines Company, Inc.
1980	Taylor W J	Pacific Telephone
1975	Cox Jerry	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	COX JERRY	Pacific Telephone
1960	PECK FRANKLIN S	Pacific Telephone
1957	PECK FRANKLIN S	Pacific Telephone
	Peck Franklin S	Pacific Telephone
1952	Peck F S	Los Angeles Directory Co.
1944	AForman C L	R. L. Polk & Co.
1939	AForran C L	Los Angeles Directory Co.
1935	Jasckron R 4 H	Los Angeles Directory Co.
1931	Buren F E o	Los Angeles Directory Co.

3750 COUNTRY CLUB DR

Year	Uses	Source
2006	WULFSBERG Belly	Haines Company, Inc.
1991	Wulfsberg Carl R	Pacific Bell
1985	Wulfsberg Carl R	Pacific Bell
	WULFSBERG CARL R	Pacific Bell
1980	Wulfsberg Carl R	Pacific Telephone
1975	Wulfsberg Carl R	Pacific Telephone
1964	WULFSBERG CARL R	Pacific Telephone
1960	WULFSBERG CARL R	Pacific Telephone
1957	Hoppin Herbert H	Pacific Telephone
1952	Cowley L L	Los Angeles Directory Co.
1944	4 Talman S P	R. L. Polk & Co.
1939	AMyers E R	Los Angeles Directory Co.
1935	Vacant	Los Angeles Directory Co.
1931	Elliott R D o	Los Angeles Directory Co.

3758 COUNTRY CLUB DR

Year	Uses	Source
2006	SELLERS Rulh	Haines Company, Inc.
1991	Sellers H L Col USA Ret	Pacific Bell
1985	Sellers H L Col USA Ret	Pacific Bell
	SELLERS H L COL USA RET	Pacific Bell
1980	Sellers H L Col USA Ret	Pacific Telephone
1975	Sellers H L Col USA Ret	Pacific Telephone
1964	DE SANTIS STANISLAO A	Pacific Telephone
1960	DE SANTIS STANISLAO A	Pacific Telephone
1957	Malcolm Donald C ga	Pacific Telephone
	MALCOLM DONALD C DR	Pacific Telephone

FINDINGS

Year	Uses	Source
1952	Symonds M D	Los Angeles Directory Co.

3764 COUNTRY CLUB DR

Year	Uses	Source
2006	STANDISHCarm	Haines Company, Inc.
1975	HOGE ROBT W	Pacific Telephone
	PECK FRANK	Pacific Telephone
	PECK MARTHA	Pacific Telephone
	Hoge Robt W	Pacific Telephone
	Peck Frank	Pacific Telephone
	Peck Martha	Pacific Telephone
1964	HOGE ROBT W	Pacific Telephone
	HOGE ROBT W	Pacific Telephone
	PECK FRANK	Pacific Telephone
	PECK MARTHA	Pacific Telephone
1960	DAVIS PETER S PHY & SUR DO OFC	Pacific Telephone
1957	Silverthorne John D ga	Pacific Telephone
1952	Richey F H	Los Angeles Directory Co.
1944	Hichey P H	R. L. Polk & Co.

3768 COUNTRY CLUB DR

Year	Uses	Source
2006	a GERONAPedro	Haines Company, Inc.
1991	Gerona Pedro	Pacific Bell
1975	Samson Lourdes	Pacific Telephone
	OBrien Sheila	Pacific Telephone
	O BRIEN SHEILA	Pacific Telephone
1964	ZIMMERMAN ERNEST	Pacific Telephone
1960	MC CANCE WM H REV	Pacific Telephone
1957	MCCANCE WM H REV	Pacific Telephone
	Mc Cance Wm H Rev ga	Pacific Telephone
1952	Rosenthal Nathan	Los Angeles Directory Co.
1944	Vacant	R. L. Polk & Co.
1939	AClelch W M Mrs	Los Angeles Directory Co.
1931	Royce B S Mrs o	Los Angeles Directory Co.

FINDINGS

MAINE AVE

3901 MAINE AVE

Year	Uses	Source
2006	o MANDALIN Chim	Haines Company, Inc.
2000	X AMEBCO RD	Haines
	MANDALIN Chim	Haines
1991	Mandalin Chim	Pacific Bell
1985	Mandalin Chim	Pacific Bell
1980	Calafiore Ralph	Pacific Telephone
1975	Balbirnie Lois M L	Pacific Telephone
1969	BALBIRNIE WM S	Pacific Telephone
1963	Balbirnie Wm S H G	Pacific Telephone
1957	Balbirnie Wm S ga	Pacific Telephone
1952	Balbirnie W S E	Los Angeles Directory Co.
1948	Balbirne W S	Los Angeles Directory Co.

N PACIFIC PL

4021 N PACIFIC PL

Year	Uses	Source
1981	SUN PRODUCTION CO LONG BEACH	Pacific Telephone
1976	General Exploration Co Of Calif	Pacific Telephone
1971	General Exploration Co Of California	Pacific Telephone

PACIFIC PL

4021 PACIFIC PL

Year	Uses	Source
1991	Petro Resources	Pacific Bell
1985	PETRO RESOURCES	Pacific Bell
	Petro Resources	Pacific Bell
1980	Ryan Earl P	Pacific Telephone
	Sun Production Co	Pacific Telephone
1975	Ryan Earl P	Pacific Telephone
	General Exploration Co Of Calif oil	Pacific Telephone
	GENERAL EXPLORATION CO OF CALIF OIL	Pacific Telephone
1967	General Exploration Co of California	Pacific Telephone

FINDINGS

W 39TH ST

603 W 39TH ST

Year	Uses	Source
1957	KOWAL PAUL MOLDS	Pacific Telephone
1954	KOWAL PAUL R	R. L. Polk & Co.
1952	Kowal P C	Los Angeles Directory Co.
1950	KOWAL PAUL R	Pacific Telephone
1948	S Kowal E C	Los Angeles Directory Co.

606 W 39TH ST

Year	Uses	Source
2006	a VAIMILI Felaiagogo	Haines Company, Inc.
1980	CEDRONE CESIDIO	Pacific Telephone
	Cedrone Cesidio	Pacific Telephone
1975	Graves M	Pacific Telephone
	GRAVES M	Pacific Telephone
1957	ZMTZMAN CLMAS W	Pacific Telephone
1954	ZITZMAN CHAS W	R. L. Polk & Co.
1952	Zitzman C W	Los Angeles Directory Co.
1950	TUCKER H S R	Pacific Telephone
1948	ATucker 13r S c	Los Angeles Directory Co.

609 W 39TH ST

Year	Uses	Source
1957	NIDEVER WILLIS C	Pacific Telephone
1954	NIDEVER WILLIS C R	R. L. Polk & Co.
1952	Nidever W C	Los Angeles Directory Co.
1950	NIDEVER WILLIS CR	Pacific Telephone
1948	GOANidwer	Los Angeles Directory Co.

612 W 39TH ST

Year	Uses	Source
2006	a TORRES Pascual	Haines Company, Inc.
1985	TORRES PASCUAL	Pacific Bell
	Torres Pascual	Pacific Bell
1980	Torres Pascual	Pacific Telephone
1960	MC CAMPBELL EDW	Pacific Telephone
	HOGAN ROSE H	Pacific Telephone
1957	LONG E D	Pacific Telephone

FINDINGS

Year	Uses	Source
1954	LONG E D R	R. L. Polk & Co.
1952	Long E D	Los Angeles Directory Co.
1950	LONG E DR	Pacific Telephone
1948	ALong E V	Los Angeles Directory Co.

613 W 39TH ST

Year	Uses	Source
1957	ENGLER EDW F	Pacific Telephone
1954	MILLER EARLE R	R. L. Polk & Co.
1952	Miller D K	Los Angeles Directory Co.
1950	MILLER EARLE R	Pacific Telephone
1948	Miller El E E	Los Angeles Directory Co.

618 W 39TH ST

Year	Uses	Source
2006	PRAXEDES Elizabelh	Haines Company, Inc.
	RENOJO Johnalhan A	Haines Company, Inc.
1991	Edwards Leslie	Pacific Bell
1985	Edwards Leslie	Pacific Bell
	EDWARDS LESLIE	Pacific Bell
1980	EDWARDS LESLIE	Pacific Telephone
	Edwards Leslie	Pacific Telephone
1975	EDWARDS LESLIE	Pacific Telephone
	Edwards Leslie	Pacific Telephone
1960	CYR FRED J	Pacific Telephone
1957	ROBINSON LEONARD A	Pacific Telephone
1954	SMITH ALBERT L LT USN	R. L. Polk & Co.
1952	Honeyball Robt	Los Angeles Directory Co.
1950	SMITH HELEN B	Pacific Telephone
1948	Hamilton Dora	Los Angeles Directory Co.

619 W 39TH ST

Year	Uses	Source
1957	KOWAL RICHARD	Pacific Telephone
1954	(OWAL RICHARD RL EST	R. L. Polk & Co.
1952	Kowal Richd	Los Angeles Directory Co.

622 W 39TH ST

Year	Uses	Source
2006	SANCHEZ Guillermo	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1960	ROSS MARY V	Pacific Telephone
1957	ROSS GLENN R	Pacific Telephone
1954	ROSS GLENN R	R. L. Polk & Co.
1950	SJUNESON HARTS	Pacific Telephone

623 W 39TH ST

Year	Uses	Source
1957	WASHBURN F R	Pacific Telephone
1954	WASHBURN F R	R. L. Polk & Co.
1952	Bonner H N	Los Angeles Directory Co.
1950	BONNER H N R	Pacific Telephone
1948	Bonner i C: N o	Los Angeles Directory Co.

628 W 39TH ST

Year	Uses	Source
2006	a KHIMDan	Haines Company, Inc.
1991	Christen John	Pacific Bell
1985	GUTCHER M L	Pacific Bell
	Gutcher M L	Pacific Bell
1964	MAYNARD JAMES A	Pacific Telephone
1960	MAYNARD JAMES A	Pacific Telephone
1957	MAYFNARD JAMES A	Pacific Telephone
1954	MAYNARD JAMES A R	R. L. Polk & Co.
1952	Maynard J A	Los Angeles Directory Co.
1950	MAYNARD JAMES A R	Pacific Telephone
1948	AMaynard J A	Los Angeles Directory Co.

629 W 39TH ST

Year	Uses	Source
1957	THOMAS D L	Pacific Telephone
1954	THOMAS D L	R. L. Polk & Co.
1952	Thomas D L	Los Angeles Directory Co.
1950	THOMAS D L	Pacific Telephone
1948	Harrington IE	Los Angeles Directory Co.

632 W 39TH ST

Year	Uses	Source
2006	a SARDINHA Linda J	Haines Company, Inc.
1991	Brodersen M M	Pacific Bell
1985	Brodersen M M	Pacific Bell

FINDINGS

Year	Uses	Source
1985	BRODERSEN M M	Pacific Bell
1980	Brodersen M M	Pacific Telephone
	BRODERSEN M M	Pacific Telephone
1975	BRODERSEN O B	Pacific Telephone
	Brodersen O B	Pacific Telephone
1964	BRODERSEN O B	Pacific Telephone
1960	BRODERSEN O B	Pacific Telephone
1957	BRODERSEN O B	Pacific Telephone
1954	BRODERSEN OB R	R. L. Polk & Co.
1952	Brodersen O BR	Los Angeles Directory Co.
1950	BRODERSEN0B R	Pacific Telephone
1948	ABroderseni	Los Angeles Directory Co.

637 W 39TH ST

Year	Uses	Source
1960	BLOUNT DELMAR W	Pacific Telephone
1957	BLOUNT DELMAR W	Pacific Telephone
1954	BLOUNT DELMAR W	R. L. Polk & Co.
1952	Blount DW	Los Angeles Directory Co.
1950	REED RALPH H	Pacific Telephone
1948	AMisenheimer 13 G	Los Angeles Directory Co.

638 W 39TH ST

Year	Uses	Source
2006	CHAUSERLee	Haines Company, Inc.
1991	Chauser Lee H & Mae	Pacific Bell
1985	Chauser Jack	Pacific Bell
	CHAUSER JACK	Pacific Bell
1980	Chauser Jack	Pacific Telephone
	CHAUSER JACK LONG BEACH	Pacific Telephone
1975	Chauser Jack	Pacific Telephone
	CHAUSER JACK	Pacific Telephone
1964	KIDDIE PARTY KARNIVAL CO	Pacific Telephone
	CHAUSER JACK	Pacific Telephone
	CAPTAIN ZODIAK	Pacific Telephone
1960	KIDDIE PARTY KARNIVAL CO	Pacific Telephone
	CAPTAIN ZODIAK	Pacific Telephone
	CHAUSER JACK	Pacific Telephone
1957	KIDDIE PARTY KARNIVAL CO	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	CHAUSER JACK	Pacific Telephone
	CAPTAIN ZODIAK	Pacific Telephone
1954	CHAUSER JACK	R. L. Polk & Co.
1952	Chauser Jack	Los Angeles Directory Co.
1950	CHAUSER J R	Pacific Telephone
1948	AChauser Jack:	Los Angeles Directory Co.

W BAKER

666 W BAKER

Year	Uses	Source
1986	PSI POWERPLANT SPECIALISTS INC COSTA MESA	Pacific Bell

W BAKER ST

643 W BAKER ST

Year	Uses	Source
1985	Christen John	Pacific Bell
	Baredian Christine	Pacific Bell
1980	Baredian Arthur H	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
3730 COUNTRY CLUB DR	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3742 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1942, 1940, 1938, 1937, 1936, 1934, 1933, 1932, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3748 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1942, 1940, 1938, 1937, 1936, 1934, 1933, 1932, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3750 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1942, 1940, 1938, 1937, 1936, 1934, 1933, 1932, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3758 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3764 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3768 COUNTRY CLUB DR	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1942, 1940, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
3901 MAINE AVE	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1951, 1950, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4021 N PACIFIC PL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4021 PACIFIC PL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
603 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
606 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
606 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
609 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
612 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
612 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
613 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
618 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
618 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
619 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
622 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
622 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
623 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
628 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
628 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
629 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
632 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
632 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
637 W 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
638 39TH ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
638 W 39TH ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1963, 1962, 1961, 1958, 1956, 1955, 1951, 1949, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
641 BAKER ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
643 BAKER ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
643 W BAKER ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
666 W BAKER	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
3701 N Pacific Place	2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

EDR Radius Map Report with Geocheck®

3701 N Pacific Place
3701 N Pacific Place
Long Beach, CA 90806

Inquiry Number: 5729718.2s
July 26, 2019

The EDR Radius Map™ Report with GeoCheck®

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

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3701 N PACIFIC PLACE
LONG BEACH, CA 90806

COORDINATES

Latitude (North):	33.8274190 - 33˚ 49' 38.70''
Longitude (West):	118.2029810 - 118˚ 12' 10.73''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	388677.5
UTM Y (Meters):	3743477.5
Elevation:	45 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5652670 LONG BEACH, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
3701 N PACIFIC PLACE
LONG BEACH, CA 90806

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LONG BEACH INDUSTRIA	3701 PACIFIC PLACE	ENVIROSTOR, VCP		TP
A2	C.R.G. PROPERTIES	3701 PACIFIC PL	HAZNET		TP
A3	LONG BEACH INDUSTRIA	3701 PACIFIC PLACE	FINDS		TP
B4	PETRO RESOURCES INC	4021 N PACIFIC PL	SEMS-ARCHIVE	Higher	196, 0.037, SE
B5	LONG BEACH INDUSTRIA	4021 PACIFIC PLACE	CPS-SLIC, CERS	Higher	196, 0.037, SE
B6	C.R.G. PROPERTIES	4021 PACIFIC PLACE	UST	Higher	196, 0.037, SE
7	YOLANDA DERAMUS	4015 MARION WAY	RCRA NonGen / NLR	Higher	230, 0.044, NNE
C8	LONG BEACH USD-CERRI	515 WEST SAN ANTONIO	RCRA-SQG, FINDS, ECHO	Higher	601, 0.114, East
C9	LBUSD LOS CERRITOS E	515 W SAN ANTONIO DR	RCRA NonGen / NLR	Higher	601, 0.114, East
C10	LOS CERRITOS	515 W. SAN ANTONIA D	RCRA NonGen / NLR	Higher	601, 0.114, East
D11	OIL OPERATORS, INC.	712 BAKER	CPS-SLIC	Lower	866, 0.164, South
D12	OIL OPERATORS INC	714 WEST BAKER STREE	ENVIROSTOR	Lower	934, 0.177, South
D13	OIL OPERATORS, INC.	712 WEST BAKER ST	CPS-SLIC, CHMIRS, CERS	Lower	948, 0.180, South
D14	OIL OPERATORS INCORP	712 W BAKER ST	SWEEPS UST, CA FID UST, EMI	Lower	948, 0.180, South
D15	OIL OPERATORS INCORP	712 W BAKER ST	HIST UST	Lower	948, 0.180, South
D16	OIL OPERATORS INC.,	712 W. BAKER STREET	SEMS-ARCHIVE	Lower	948, 0.180, South
D17	OIL OPERATORS (AST'S	0712 W BAKER ST	UST	Lower	948, 0.180, South
18	CALTRANS LONG BEACH,	W LOS ANGELES RIVER/	SWF/LF, CERS	Lower	1247, 0.236, NNW
19	BP PIPELINE/ARCO	- GOLDEN AVE.	CPS-SLIC, CERS	Higher	1396, 0.264, South
20	STORE FOR LESS	1012 WEST CARSON ST	SEMS-ARCHIVE, PRP	Lower	1698, 0.322, NW
21	BIXBY LAND CO.	1101 WARDLOW	CPS-SLIC	Lower	1885, 0.357, SSW
E22	RAYTHEON SYSTEMS CO	1500 HUGHES WAY	SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG	Higher	2280, 0.432, West
E23	HUGHES AIRCRAFT COMP	1500 HUGHES WAY	EMI, HWP	Higher	2280, 0.432, West
E24	HUGHES TECHNICAL SER	1500,1665 HUGHES WAY	ENVIROSTOR, FINDS, EMI, CERS	Higher	2280, 0.432, West
25	LONG BEACH USD-BOARD	1515 HUGHES WAY	ENVIROSTOR, SCH, HAZNET, CERS	Lower	3083, 0.584, West
26	SOUTH REGION HIGH SC	WEST CARSON STREET/S	ENVIROSTOR, SCH	Lower	3838, 0.727, NW

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
LONG BEACH INDUSTRIA 3701 PACIFIC PLACE LONG BEACH, CA 90806	ENVIROSTOR Facility Id: 70000161 Status: Active VCP Status: Active Facility Id: 70000161	N/A
C.R.G. PROPERTIES 3701 PACIFIC PL LONG BEACH, CA 90806	HAZNET GEPAID: CAC002572604	N/A
LONG BEACH INDUSTRIA 3701 PACIFIC PLACE LONG BEACH, CA 90806	FINDS Registry ID:: 110033607899	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

LUST ---------- Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ---------- Key Areas of Concerns in Los Angeles County

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
CERS HAZ WASTE ---- CERS HAZ WASTE
US CDL ---- National Clandestine Laboratory Register
PFAS ---- PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS ---- California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations

FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HIST CORTESE	Hazardous Waste & Substance Site List
LOS ANGELES CO. HMS	HMS: Street Number List
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
LOS ANGELES CO LF METHANE	Methane Producing Landfills

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RAYTHEON SYSTEMS CO Site ID: 0903302 EPA Id: CAT080012867	***1500 HUGHES WAY***	***W 1/4 - 1/2 (0.432 mi.)***	***E22***	***39***

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/11/2019 has revealed that there

are 3 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO RESOURCES INC Site ID: 0902288 EPA Id: CAD981371222	4021 N PACIFIC PL	SE 0 - 1/8 (0.037 mi.)	B4	16

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS INC., ***STORE FOR LESS*** Site ID: 0903876 EPA Id: CAD983580879	712 W. BAKER STREET ***1012 WEST CARSON ST***	S 1/8 - 1/4 (0.180 mi.) ***NW 1/4 - 1/2 (0.322 mi.)***	D16 ***20***	33 ***37***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RAYTHEON SYSTEMS CO EPA ID:: CAT080012867	***1500 HUGHES WAY***	***W 1/4 - 1/2 (0.432 mi.)***	***E22***	***39***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RAYTHEON SYSTEMS CO EPA ID:: CAT080012867	***1500 HUGHES WAY***	***W 1/4 - 1/2 (0.432 mi.)***	***E22***	***39***

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONG BEACH USD-CERRI EPA ID:: CAD981420102	***515 WEST SAN ANTONIO***	***E 0 - 1/8 (0.114 mi.)***	***C8***	***19***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/29/2019 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES TECHNICAL SER Facility Id: 80001843 Status: No Action Required	***1500,1665 HUGHES WAY***	***W 1/4 - 1/2 (0.432 mi.)***	***E24***	***50***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS INC Facility Id: 19290011 Status: Refer: RWQCB	714 WEST BAKER STREE	S 1/8 - 1/4 (0.177 mi.)	D12	24
LONG BEACH USD-BOARD Facility Id: 60002177 Status: Active	***1515 HUGHES WAY***	***W 1/2 - 1 (0.584 mi.)***	***25***	***56***
SOUTH REGION HIGH SC Facility Id: 70000120 Status: No Further Action	***WEST CARSON STREET/S***	***NW 1/2 - 1 (0.727 mi.)***	***26***	***63***

State and tribal landfill and/or solid waste disposal site lists

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 is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALTRANS LONG BEACH,	***W LOS ANGELES RIVER/***	***NNW 1/8 - 1/4 (0.236 mi.)***	***18***	***34***
Database: SWF/LF (SWIS), Date of Government Version: 05/13/2019 Facility ID: 19-AK-5002 Operational Status: Closed Regulation Status: Unpermitted				

State and tribal leaking storage tank lists

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 5 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LONG BEACH INDUSTRIA	***4021 PACIFIC PLACE***	***SE 0 - 1/8 (0.037 mi.)***	***B5***	***17***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Inactive Global Id: SL0603792443				
BP PIPELINE/ARCO	***- GOLDEN AVE.***	***S 1/4 - 1/2 (0.264 mi.)***	***19***	***36***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Assessment & Interim Remedial Action Global Id: T10000004182				

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS, INC.	712 BAKER	S 1/8 - 1/4 (0.164 mi.)	D11	23
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Remediation				
OIL OPERATORS, INC.	***712 WEST BAKER ST***	***S 1/8 - 1/4 (0.180 mi.)***	***D13***	***25***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Site Assessment Global Id: SL2044M1596				
BIXBY LAND CO.	1101 WARDLOW	SSW 1/4 - 1/2 (0.357 mi.)	21	38
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
C.R.G. PROPERTIES Database: LONG BEACH UST, Date of Government Version: 04/22/2019	4021 PACIFIC PLACE	SE 0 - 1/8 (0.037 mi.)	B6	18

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS (AST'S Database: LONG BEACH UST, Date of Government Version: 04/22/2019	0712 W BAKER ST	S 1/8 - 1/4 (0.180 mi.)	D17	34

ADDITIONAL ENVIRONMENTAL RECORDS

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS INCORP Status: A Tank Status: A Comp Number: 16868	***712 W BAKER ST***	***S 1/8 - 1/4 (0.180 mi.)***	***D14***	***28***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS INCORP Facility Id: 00000016868	712 W BAKER ST	S 1/8 - 1/4 (0.180 mi.)	D15	31

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.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OIL OPERATORS INCORP	***712 W BAKER ST***	***S 1/8 - 1/4 (0.180 mi.)***	***D14***	***28***
Facility Id: 19050933				
Status: A				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
YOLANDA DERAMUS	4015 MARION WAY	NNE 0 - 1/8 (0.044 mi.)	7	18
EPA ID:: CAC002972209				
LBUSD LOS CERRITOS E	515 W SAN ANTONIO DR	E 0 - 1/8 (0.114 mi.)	C9	21
EPA ID:: CAL000417871				
LOS CERRITOS	515 W. SAN ANTONIA D	E 0 - 1/8 (0.114 mi.)	C10	22
EPA ID:: CAC002978453				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 05/20/2019 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

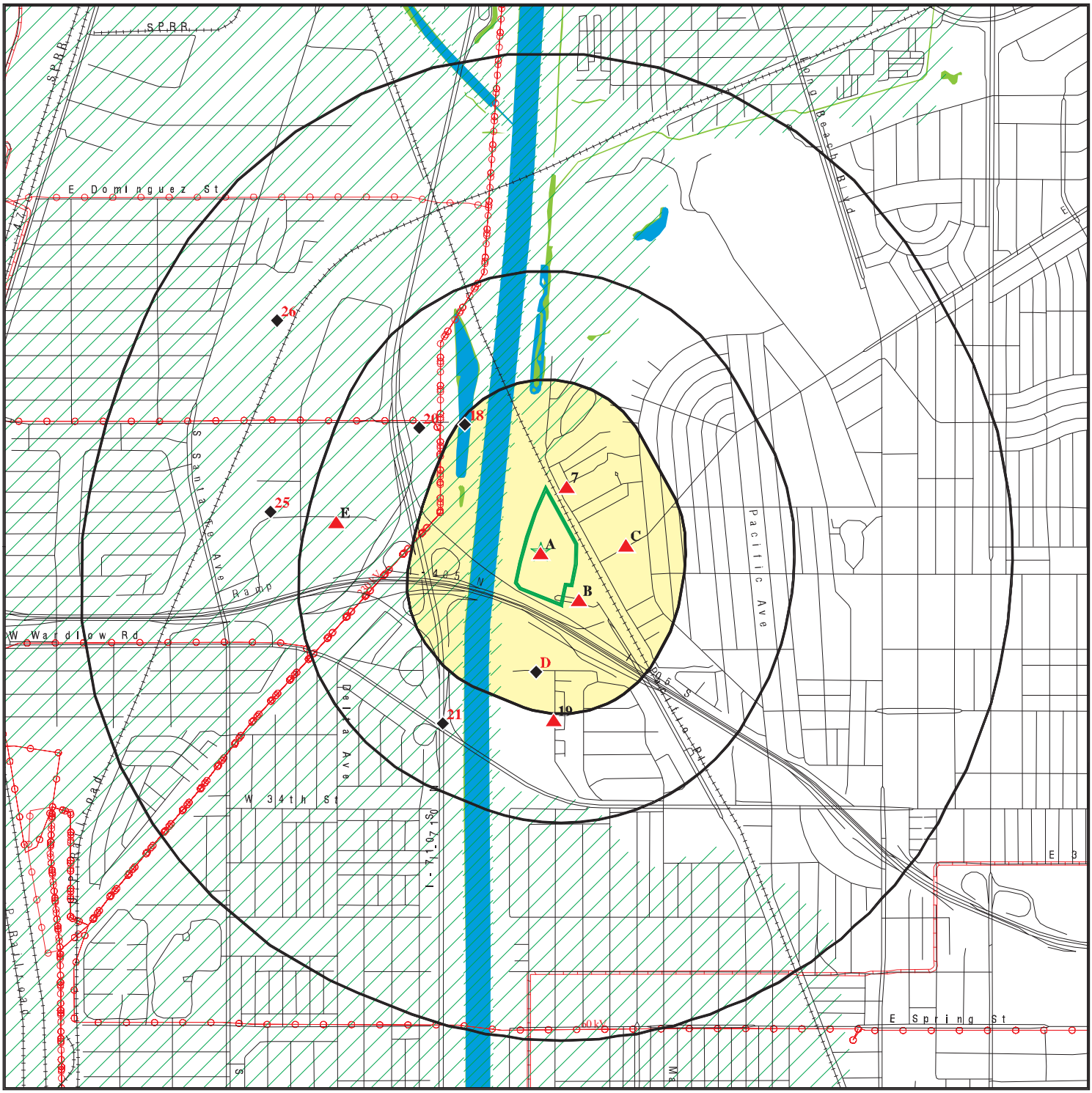
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HUGHES AIRCRAFT COMP	***1500 HUGHES WAY***	***W 1/4 - 1/2 (0.432 mi.)***	***E23***	***48***
EPA Id: CAT080012867				
Cleanup Status: CLOSED				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
K & T LOGISTIC CENTER	CPS-SLIC, CERS
	CDL
ACTA SOUTH - PARCEL SE-334	CPS-SLIC

OVERVIEW MAP - 5729718.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- 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: 3701 N Pacific Place	CLIENT: Roux Associates
ADDRESS: 3701 N Pacific Place Long Beach CA 90806	CONTACT: Holly Hutcheson
LAT/LONG: 33.827419 / 118.202981	INQUIRY #: 5729718.2s DATE: July 26, 2019 12:24 pm

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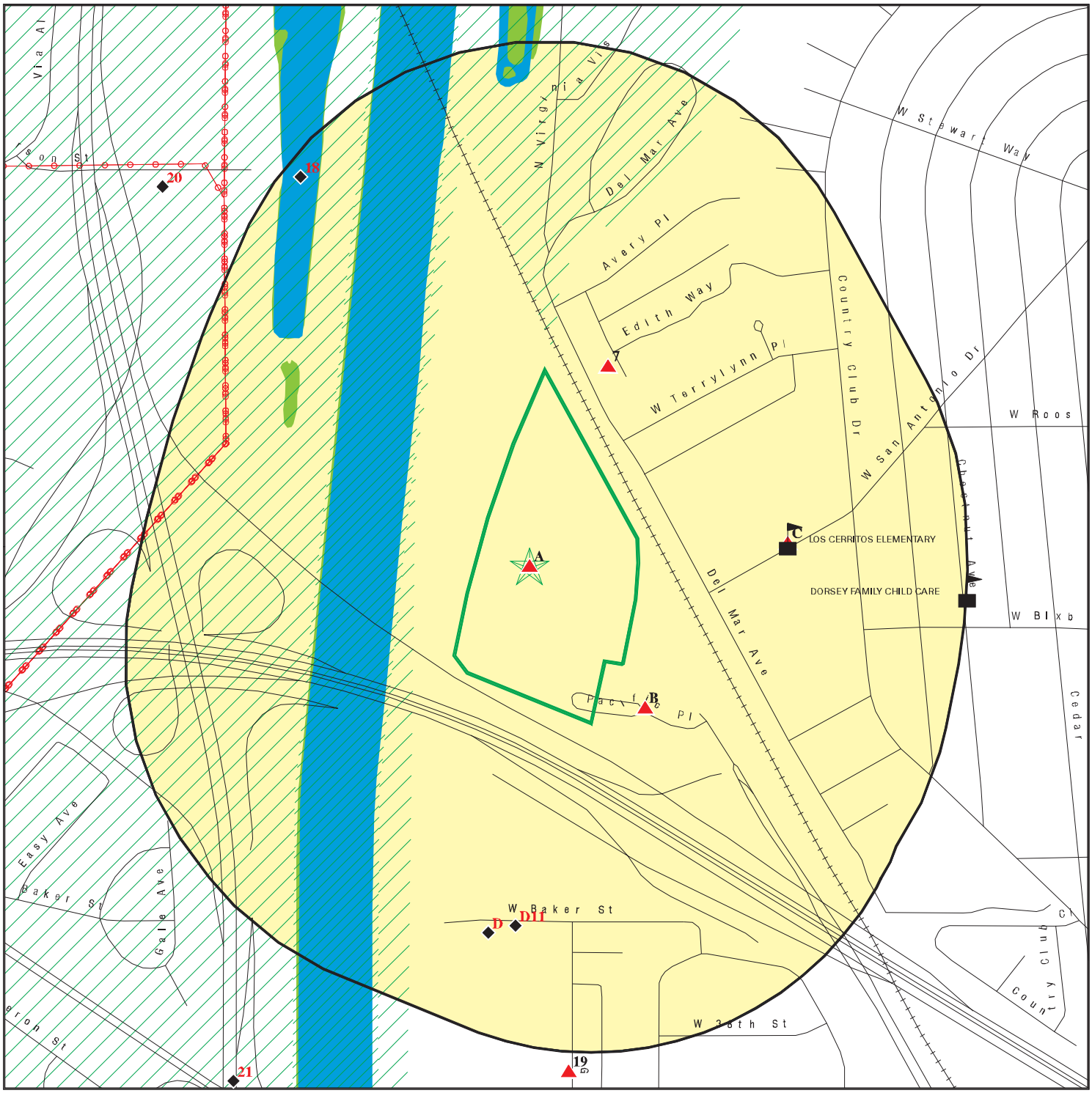
DETAIL MAP - 5729718.2S



- 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
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

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SITE NAME: 3701 N Pacific Place	CLIENT: Roux Associates
ADDRESS: 3701 N Pacific Place Long Beach CA 90806	CONTACT: Holly Hutcheson
LAT/LONG: 33.827419 / 118.202981	INQUIRY #: 5729718.2s DATE: July 26, 2019 12:28 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		1	1	1	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	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 CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	0	1	1	2	NR	5
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		1	2	2	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	1	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500	1	0	0	0	NR	NR	1
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	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		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	1	NR	NR	NR	1
HIST UST	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	1	NR	NR	NR	1
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		3	0	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		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		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	1	0	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
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
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
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		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
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
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		4	7	9	8	2	0	30

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERA**
3701 PACIFIC PLACE
LONG BEACH, CA 90806

ENVIROSTOR **S108200056**
VCP **N/A**

Site 1 of 3 in cluster A

Actual: 45 ft.

ENVIROSTOR:

Name:	LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS)
Address:	3701 PACIFIC PLACE
City,State,Zip:	LONG BEACH, CA 90806-1163
Facility ID:	70000161
Status:	Active
Status Date:	03/15/2016
Site Code:	401865
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	18
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 4 - Los Angeles
Lead Agency:	SMBRP
Program Manager:	Rania Zabaneh
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	70
Senate:	33
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.82613
Longitude:	-118.2024
APN:	714-0014-019, 714-0014-020, 7140-014-021-04, 7140-014-022-04, 7140-014-023-04, 7140-014-027-04
Past Use:	OIL FIELD
Potential COC:	Arsenic Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Methane Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE Barium and compounds Benzo[a]pyrene Zinc
Confirmed COC:	Arsenic Benzene Total Chromium (1:6 ratio Cr VI:Cr III Lead Methane 30022-NO TPH-gas 30027-NO Barium and compounds Benzo[a]pyrene Zinc
Potential Description:	OTH, SOIL, SV
Alias Name:	Oil Operators Northsite
Alias Type:	Alternate Name
Alias Name:	714-0014-019
Alias Type:	APN
Alias Name:	714-0014-020
Alias Type:	APN
Alias Name:	7140-014-021-04
Alias Type:	APN
Alias Name:	7140-014-022-04
Alias Type:	APN
Alias Name:	7140-014-023-04
Alias Type:	APN
Alias Name:	7140-014-027-04
Alias Type:	APN
Alias Name:	110033607899
Alias Type:	EPA (FRS #)
Alias Name:	SL0603792443
Alias Type:	GeoTracker Global ID
Alias Name:	401282

LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS) (Continued) **S108200056**

Alias Type: Project Code (Site Code)
Alias Name: 401282
Alias Type: Project Code (Site Code)
Alias Name: 401282
Alias Type: Project Code (Site Code)
Alias Name: 401282
Alias Type: Project Code (Site Code)
Alias Name: 401282
Alias Type: Project Code (Site Code)
Alias Name: 401865
Alias Type: Project Code (Site Code)
Alias Name: 70000161
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/11/2017
Comments: Site visit conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 12/04/2018
Comments: Batch 2 of 2 of documents in pdf were FedExed overnight to Nave/Meyers law firm on a CD attachment to the letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/08/2007
Comments: Further Action Required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/06/2007
Comments: DTSC approved the RI workplan for further characterization of soil and groundwater in order to determine the nature and extent of contaminants at this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/01/2009

LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS) (Continued) **S108200056**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/19/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/07/2008
Comments: Continued monitoring required.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Plan
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Feasibility Study Report
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Design/Implementation Workplan
Future Due Date: 2021
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

VCP:
Name: LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS)
Address: 3701 PACIFIC PLACE
City,State,Zip: LONG BEACH, CA 90806-1163
Facility ID: 70000161

LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS) (Continued) **S108200056**

Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	18
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 4 - Los Angeles
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Rania Zabaneh
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Site Code:	401865
Assembly:	70
Senate:	33
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	03/15/2016
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.82613 / -118.2024
APN:	714-0014-019, 714-0014-020, 7140-014-021-04, 7140-014-022-04, 7140-014-023-04, 7140-014-027-04
Past Use:	OIL FIELD
Potential COC:	30001, 30003, 30005, 30013, 30015, 30022, 30025, 30027, 30067, 30478, 30594
Confirmed COC:	30001,30003,30005,30013,30015,30022-NO,30025,30027-NO,30067,30478, 30594
Potential Description:	OTH, SOIL, SV
Alias Name:	Oil Operators Northsite
Alias Type:	Alternate Name
Alias Name:	714-0014-019
Alias Type:	APN
Alias Name:	714-0014-020
Alias Type:	APN
Alias Name:	7140-014-021-04
Alias Type:	APN
Alias Name:	7140-014-022-04
Alias Type:	APN
Alias Name:	7140-014-023-04
Alias Type:	APN
Alias Name:	7140-014-027-04
Alias Type:	APN
Alias Name:	110033607899
Alias Type:	EPA (FRS #)
Alias Name:	SL0603792443
Alias Type:	GeoTracker Global ID
Alias Name:	401282
Alias Type:	Project Code (Site Code)
Alias Name:	401282
Alias Type:	Project Code (Site Code)
Alias Name:	401282
Alias Type:	Project Code (Site Code)
Alias Name:	401282
Alias Type:	Project Code (Site Code)
Alias Name:	401282
Alias Type:	Project Code (Site Code)
Alias Name:	401865

LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS) (Continued) **S108200056**

Alias Type: Project Code (Site Code)
Alias Name: 70000161
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/11/2017
Comments: Site visit conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/08/2007
Comments: Further Action Required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/06/2007
Comments: DTSC approved the RI workplan for further characterization of soil and groundwater in order to determine the nature and extent of contaminants at this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/01/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/19/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

LONG BEACH INDUSTRIAL PARK (A.K.A FORMER OIL OPERATORS) (Continued) **S108200056**

Completed Document Type:	Monitoring Report
Completed Date:	10/07/2008
Comments:	Continued monitoring required.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2021
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2021
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Public Notice
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2021
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

A2 **C.R.G. PROPERTIES** **HAZNET** **S112934392**
Target **3701 PACIFIC PL** **N/A**
Property **LONG BEACH, CA 90806**

Site 2 of 3 in cluster A

Actual:
45 ft.

HAZNET:

Name:	C.R.G. PROPERTIES
Address:	3701 PACIFIC PL
City,State,Zip:	LONG BEACH, CA 908061163
Year:	2004
GEPAID:	CAC002572604
Contact:	STEVE SUKUT
Telephone:	7145405351
Mailing Name:	Not reported
Mailing Address:	4010 W CHANDLER AVE

C.R.G. PROPERTIES (Continued) **S112934392**

Mailing City,St,Zip:	SANTA ANA, CA 92704
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.417
CA Waste Code:	141-Off-specification, aged or surplus inorganics
Method:	D80-Disposal, Land Fill
Facility County:	Los Angeles

Name:	C.R.G. PROPERTIES
Address:	3701 PACIFIC PL
City,State,Zip:	LONG BEACH, CA 908061163
Year:	2004
GEPAID:	CAC002572604
Contact:	STEVE SUKUT
Telephone:	7145405351
Mailing Name:	Not reported
Mailing Address:	4010 W CHANDLER AVE
Mailing City,St,Zip:	SANTA ANA, CA 92704
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.417
CA Waste Code:	141-Off-specification, aged or surplus inorganics
Method:	D80-Disposal, Land Fill
Facility County:	Los Angeles

A3 **LONG BEACH INDUSTRIAL PARK** **FINDS** **1010729151**
Target **3701 PACIFIC PLACE** **N/A**
Property **LONG BEACH, CA 90806**

Site 3 of 3 in cluster A

Actual:
45 ft.

FINDS:

Registry ID: 110033607899

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B4
SE
< 1/8
0.037 mi.
196 ft.

PETRO RESOURCES INC
4021 N PACIFIC PL
LONG BEACH, CA 90806

Site 1 of 3 in cluster B

SEMS-ARCHIVE **1003878840**
CAD981371222

Relative:
Higher

Actual:
47 ft.

SEMS Archive:

Site ID:	0902288
EPA ID:	CAD981371222
Cong District:	32
FIPS Code:	06037
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:	0902288
EPA ID:	CAD981371222
Site Name:	PETRO RESOURCES INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1987-10-01 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0902288
EPA ID:	CAD981371222
Site Name:	PETRO RESOURCES INC
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1986-02-01 05:00:00
Finish Date:	1986-02-01 05:00:00
Qual:	Not reported
Current Action Lead:	St Perf

Region:	09
Site ID:	0902288
EPA ID:	CAD981371222
Site Name:	PETRO RESOURCES INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-12-01 06:00:00
Finish Date:	1987-10-01 04:00:00
Qual:	N
Current Action Lead:	St Perf

B5 **LONG BEACH INDUSTRIAL PARK** **CPS-SLIC S109286049**
SE **4021 PACIFIC PLACE** **CERS N/A**
< 1/8 **LONG BEACH, CA 90806**
0.037 mi.
196 ft. **Site 2 of 3 in cluster B**

Relative: Higher

Actual: 47 ft.

CPS-SLIC:

Name:	LONG BEACH INDUSTRIAL PARK
Address:	4021 PACIFIC PLACE
City,State,Zip:	LONG BEACH, CA 90806
Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	01/29/2015
Global Id:	SL0603792443
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	70000161
Latitude:	33.825762
Longitude:	-118.200708
Case Type:	Cleanup Program Site
Case Worker:	GH
Local Agency:	LONG BEACH, CITY OF
RB Case Number:	Not reported
File Location:	DTSC
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Los Angeles County Metropolitan Authority provided documentation to clarify property name is Long Beach Industrial Park and owner is CRG Properites Ltd.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	LONG BEACH INDUSTRIAL PARK
Address:	4021 PACIFIC PLACE
City,State,Zip:	LONG BEACH, CA 90806
Site ID:	234405
CERS ID:	SL0603792443
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CARMEN PIRO - LONG BEACH, CITY OF
Entity Title:	Not reported
Affiliation Address:	2525 GRAND AVE.
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5625704137

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 W. 4TH ST., SUITE 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B6
SE
< 1/8
0.037 mi.
196 ft.

C.R.G. PROPERTIES
4021 PACIFIC PLACE
LONG BEACH, CA

Site 3 of 3 in cluster B

UST **U003854853**
N/A

Relative: Higher
Actual: 47 ft.

LONG BEACH UST:

DATA AS OF 02/25/2014:

Name:	C.R.G. PROPERTIES
Address:	4021 PACIFIC PLACE
City,State,Zip:	LONG BEACH, CA
Region:	LONG BEACH
Tanks:	0T
Tank Test:	Not reported
Leak Test:	Not reported
Tank Status:	Not reported

7
NNE
< 1/8
0.044 mi.
230 ft.

YOLANDA DERAMUS
4015 MARION WAY
LONG BEACH, CA 90807

RCRA NonGen / NLR **1024752404**
CAC002972209

Relative: Higher
Actual: 67 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/23/2018
Facility name:	YOLANDA DERAMUS
Facility address:	4015 MARION WAY LONG BEACH, CA 90807-3113
EPA ID:	CAC002972209
Contact:	YOLANDA DERAMUS
Contact address:	4015 MARION WAY LONG BEACH, CA 90807-3113
Contact country:	Not reported
Contact telephone:	213-618-7750
Contact email:	GENEVADEGUIRE@ALLIANCE-ENVIRO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	YOLANDA DERAMUS
Owner/operator address:	4015 MARION WAY LONG BEACH, CA 90807
Owner/operator country:	Not reported
Owner/operator telephone:	213-618-7750
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	YOLANDA DERAMUS
Owner/operator address:	4015 MARION WAY LONG BEACH, CA 90807
Owner/operator country:	Not reported
Owner/operator telephone:	213-618-7750
Owner/operator email:	Not reported

YOLANDA DERAMUS (Continued) **1024752404**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

C8 East < 1/8 0.114 mi. 601 ft. **LONG BEACH USD-CERRITOS ELEMENTARY** **RCRA-SQG 1000231581**
515 WEST SAN ANTONIO DRIVE **FINDS CAD981420102**
LONG BEACH, CA 90807 **ECHO**

Site 1 of 3 in cluster C

Relative: Higher

Actual: 80 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: LONG BEACH USD-CERRITOS ELEMENTARY
Facility address: 515 WEST SAN ANTONIO DRIVE
LONG BEACH, CA 90807
EPA ID: CAD981420102
Mailing address: 151 EAST TWENTY SEVENTH STREET
LONG BEACH, CA 90806
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LONG BEACH UNIFIED SCHOOL DISTRICT
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

LONG BEACH USD-CERRITOS ELEMENTARY (Continued) **1000231581**

Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/16/1986
Site name: LONG BEACH USD-CERRITOS ELEMENTARY
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002699731

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

LONG BEACH USD-CERRITOS ELEMENTARY (Continued) **1000231581**

corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000231581
Registry ID: 110002699731
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002699731

C9 **LBUSD LOS CERRITOS ELEMENTARY** **RCRA NonGen / NLR** **1024855341**
East **515 W SAN ANTONIO DR** **CAL000417871**
< 1/8 **LONG BEACH, CA 90807**
0.114 mi.
601 ft. **Site 2 of 3 in cluster C**

Relative: Higher

Actual: 80 ft.

RCRA NonGen / NLR:
Date form received by agency: 06/08/2016
Facility name: LBUSD LOS CERRITOS ELEMENTARY
Facility address: 515 W SAN ANTONIO DR
LONG BEACH, CA 90807
EPA ID: CAL000417871
Mailing address: 2425 WEBSTER AVE
LONG BEACH, CA 90810-0000
Contact: STEVEN RICHARDS
Contact address: 2425 WEBSTER AVENUE
LONG BEACH, CA 90810
Contact country: Not reported
Contact telephone: 562-997-7517
Contact email: SRICHARDS@LBSCHOOLS.NET
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LONG BEACH USD
Owner/operator address: 1515 HUGHES WAY
LONG BEACH, CA 90810
Owner/operator country: Not reported
Owner/operator telephone: 562-997-8000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: STEVEN RICHARDS
Owner/operator address: 2425 WEBSTER AVENUE
LONG BEACH, CA 90810
Owner/operator country: Not reported
Owner/operator telephone: 562-997-7517
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

LBUSD LOS CERRITOS ELEMENTARY (Continued) **1024855341**

Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

C10 **LOS CERRITOS** **RCRA NonGen / NLR** **1024758608**
East **515 W. SAN ANTONIA DR.** **CAC002978453**
< 1/8 **LONG BEACH, CA 90807**
0.114 mi.
601 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
80 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/31/2018
Facility name: LOS CERRITOS
Facility address: 515 W. SAN ANTONIA DR.
LONG BEACH, CA 90807
EPA ID: CAC002978453
Mailing address: 2201 E. MARKET ST
LONG BEACH, CA 90805
Contact: ED LAFRENIERE
Contact address: 2201 E. MARKET ST
LONG BEACH, CA 90805
Contact country: Not reported
Contact telephone: 714-448-4471
Contact email: WINWOOD.JOHN@CLEANHARBORS.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LONG BEACH UNIFIED SCHOOL
Owner/operator address: 2201 E. MARKET ST
LONG BEACH, CA 90805
Owner/operator country: Not reported
Owner/operator telephone: 714-448-4471
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other

LOS CERRITOS (Continued) **1024758608**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ED LAFRENIERE
Owner/operator address: 2201 E. MARKET ST
LONG BEACH, CA 90805
Owner/operator country: Not reported
Owner/operator telephone: 714-448-4471
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

D11 **OIL OPERATORS, INC.** **CPS-SLIC** **U003660379**
South **712 BAKER** **N/A**
1/8-1/4 **LONG BEACH, CA 90806**
0.164 mi.
866 ft. **Site 1 of 7 in cluster D**

Relative:
Lower

Actual:
31 ft.

SLIC REG 4:
Region: 4
Facility Status: Remediation
SLIC: 0093
Substance: TPH
Staff: AH

D12 **OIL OPERATORS INC** **ENVIROSTOR** **S101480681**
South **714 WEST BAKER STREET** **N/A**
1/8-1/4 **LONG BEACH, CA 90806**
0.177 mi.
934 ft. **Site 2 of 7 in cluster D**

Relative:
Lower

Actual:
30 ft.

ENVIROSTOR:

Name:	OIL OPERATORS INC
Address:	714 WEST BAKER STREET
City,State,Zip:	LONG BEACH, CA 90806
Facility ID:	19290011
Status:	Refer: RWQCB
Status Date:	01/11/2011
Site Code:	400564
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	18
NPL:	NO
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Manny Alonzo
Division Branch:	Cleanup Cypress
Assembly:	70
Senate:	33
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.82333
Longitude:	-118.2022
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* WASTE OIL & MIXED OIL
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	Long Beach Industrial Park
Alias Type:	Alternate Name
Alias Name:	SIGNAL HILL AREA DUMPSITE (CERCLIS)
Alias Type:	Alternate Name
Alias Name:	CAD983566399
Alias Type:	EPA Identification Number
Alias Name:	400564
Alias Type:	Project Code (Site Code)
Alias Name:	19290011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	10/05/1980
Comments:	Facility Identified: Waste Haulers #105.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	09/20/1996
Comments:	A Preliminary Assessment (Re-assessment) was completed under U.S. EPA grant. The site does not qualify for further remedial site assessment

OIL OPERATORS INC (Continued) **S101480681**

under CERCLA. The Regional Water Quality Control Board is involved with the site.

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

D13 **OIL OPERATORS, INC.** **CPS-SLIC S105645229**
South **712 WEST BAKER ST** **CHMIRS N/A**
1/8-1/4 **LONG BEACH, CA** **CERS**
0.180 mi.
948 ft. **Site 3 of 7 in cluster D**

Relative: **Lower**

Actual: **30 ft.**

CPS-SLIC:

Name:	OIL OPERATORS, INC.
Address:	712 WEST BAKER ST
City,State,Zip:	LONG BEACH, CA
Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	01/02/2015
Global Id:	SL2044M1596
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.8228684074719
Longitude:	-118.203449249268
Case Type:	Cleanup Program Site
Case Worker:	RO
Local Agency:	LONG BEACH, CITY OF
RB Case Number:	0093
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Benzene, Toluene, Xylene, Arsenic, Chromium, Lead, Nickel, Crude Oil, Gasoline
Site History:	The Oil Operators Incorporated (OOI) property covers approximately 20-acres and is located south of the 405 freeway, east of the 710 freeway and the Los Angeles River, in the City of Long Beach. It is bounded on the south by Wardlow Road and on the east by Golden Avenue. A residential development is present to the east of the property, across Golden Avenue. The site address is 712 West Baker Street. Baker Street divides the property into two parts, a northern part and a larger southern part. The area immediately to the west of the property is the Los Angeles River. OOI is a non-profit cooperative organization of numerous oil companies, operators and individuals that operate oil wells in the Long Beach/Signal Hill area. OOI owns the subject property and has operated onsite water treatment facilities since 1926 to treat produced water (production brines) and other fluids recovered during oil production. The aforementioned process removed oil and sediment from the water, allowing the treated water to be disposed of offsite. As a by-product of this process, low-grade oil was recovered for recycling. In the mid 1950s, a water treatment plant was constructed onsite consisting

OIL OPERATORS, INC. (Continued) **S105645229**

of five circular concrete skimming basins and associated pumps, tanks, pipelines and other facilities. The treatment plant was located north of the two large rectangular basins, referred to as Basins 1 and 2. Basin 1 is a large square settling basin that contained residual oily solids that settled out of the oil production brine water processed throughout the site over the last several decades. Basin 2 received relatively clean water, after it had gone through various stages of skimming. In Basin 2, the treated water was held until it was released to the sanitation district for disposal. Additional smaller basins were historically present south of Basins 1 and 2. These smaller basins were closed in 1986 and 1987. Prior to ceasing operations in 1998, the OOI facility consisted of five circular concrete skimming basins, Basins 1 and 2, various aboveground storage tanks and surface buildings. Much of the vacant area of the property was formerly leased to a plant nursery. The property had been undergoing decommissioning in phases since 1998. The nursery vacated the site in 1999. In 2000, the City of Long Beach ordered all buildings, sheds and similar structures to be demolished with the debris hauled offsite. In 2001, the remaining aboveground storage tanks were cleaned and demolished. Currently, the site is vacant. Basin 1 has been the subject of remediation since it contained oily solids/sludge that settled out of the oil production wastewater processed at the site. Cleanup criteria were established for the primary chemicals of concern (COC) in Basin 1, which are total petroleum hydrocarbons (TPH), gasoline components; benzene, toluene, ethylbenzene and xylenes (BTEX) and heavy metals (arsenic, chromium, lead and nickel).

Click here to access the California GeoTracker records for this facility:

CHMIRS:

Name:	Not reported
Address:	712 WEST BAKER ST
City,State,Zip:	LONG BEACH, CA 90807
OES Incident Number:	14472
OES notification:	Not reported
OES Date:	6/30/1996
OES Time:	11:32:52 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

OIL OPERATORS, INC. (Continued) **S105645229**

Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	discharger
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1996
Agency:	oil oper inc
Incident Date:	2100 6/30/96
Admin Agency:	Not reported
Amount:	minor amount under 2 gals
Contained:	NO
Site Type:	Not reported
E Date:	Not reported
Substance:	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:	leaking pipeline in 8 in mainline near flange

CERS:

Name:	OIL OPERATORS, INC.
Address:	712 WEST BAKER ST
City,State,Zip:	LONG BEACH, CA
Site ID:	211501
CERS ID:	SL2044M1596
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	REBECCA ORR - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 W 4th St #200
Affiliation City:	LOS ANGELES

OIL OPERATORS, INC. (Continued) **S105645229**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 2135766811

D14 **OIL OPERATORS INCORPORATED** **SWEEPS UST** **S101618114**
South **712 W BAKER ST** **CA FID UST** **N/A**
1/8-1/4 **LONG BEACH, CA 90806** **EMI**
0.180 mi.
948 ft. **Site 4 of 7 in cluster D**

Relative: SWEEPS UST:
Lower
Actual: Name: OIL OPERATORS INCORPORATED
30 ft. Address: 712 W BAKER ST
City: LONG BEACH
Status: Active
Comp Number: 16868
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 19-060-016868-000001
Tank Status: A
Capacity: 365000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 5

Name: OIL OPERATORS INCORPORATED
Address: 712 W BAKER ST
City: LONG BEACH
Status: Active
Comp Number: 16868
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 19-060-016868-000002
Tank Status: A
Capacity: 365000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: OIL OPERATORS INCORPORATED
Address: 712 W BAKER ST
City: LONG BEACH
Status: Active
Comp Number: 16868

OIL OPERATORS INCORPORATED (Continued) **S101618114**

Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 19-060-016868-000003
Tank Status: A
Capacity: 365000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: OIL OPERATORS INCORPORATED
Address: 712 W BAKER ST
City: LONG BEACH
Status: Active
Comp Number: 16868
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 19-060-016868-000004
Tank Status: A
Capacity: 365000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: OIL OPERATORS INCORPORATED
Address: 712 W BAKER ST
City: LONG BEACH
Status: Active
Comp Number: 16868
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 19-060-016868-000005
Tank Status: A
Capacity: 365000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19050933

OIL OPERATORS INCORPORATED (Continued) **S101618114**

Regulated By:	UTNKA
Regulated ID:	00016868
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2134242451
Mail To:	Not reported
Mailing Address:	712 W BAKER ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG BEACH 90806
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

EMI:

Name:	OIL OPERATORS INC
Address:	712 W BAKER ST
City,State,Zip:	LONG BEACH, CA 90806
Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	24470
Air District Name:	SC
SIC Code:	2992
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:	OIL OPERATORS INC
Address:	712 W BAKER ST
City,State,Zip:	LONG BEACH, CA 90806
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	24470
Air District Name:	SC
SIC Code:	2992
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

D15 **OIL OPERATORS INCORPORATED** **HIST UST** **U001566108**
South **712 W BAKER ST** **N/A**
1/8-1/4 **LONG BEACH, CA 90806**
0.180 mi.
948 ft. **Site 5 of 7 in cluster D**

Relative:
Lower

Actual:
30 ft.

HIST UST:

Name:	OIL OPERATORS INCORPORATED
Address:	712 W BAKER ST
City,State,Zip:	LONG BEACH, CA 90806
File Number:	000279C9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000279C9.pdf
Region:	STATE
Facility ID:	00000016868
Facility Type:	Other
Other Type:	WASTEWATER TREATMENT
Contact Name:	Not reported
Telephone:	2134242451
Owner Name:	OIL OPERATORS INCORPORATED
Owner Address:	712 W. BAKER STREET
Owner City,St,Zip:	LONG BEACH, CA 90806
Total Tanks:	0011
Tank Num:	001
Container Num:	1
Year Installed:	1959
Tank Capacity:	00365000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual, Groundwater Monitoring Well
Tank Num:	002
Container Num:	2
Year Installed:	1959
Tank Capacity:	00365000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual, Groundwater Monitoring Well
Tank Num:	003
Container Num:	3
Year Installed:	1959
Tank Capacity:	00365000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual, Groundwater Monitoring Well
Tank Num:	004
Container Num:	4
Year Installed:	1959
Tank Capacity:	00365000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual, Groundwater Monitoring Well

OIL OPERATORS INCORPORATED (Continued) **U001566108**

Tank Num:	005
Container Num:	5
Year Installed:	1959
Tank Capacity:	00365000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	006
Container Num:	6
Year Installed:	1950
Tank Capacity:	02520000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	24
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	007
Container Num:	7
Year Installed:	1982
Tank Capacity:	05460000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	24
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	008
Container Num:	8
Year Installed:	1950
Tank Capacity:	02549400
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	24
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	009
Container Num:	9
Year Installed:	1950
Tank Capacity:	00558600
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	24
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	010
Container Num:	10
Year Installed:	1959
Tank Capacity:	00087750
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	Visual, Groundwater Monitoring Well

Tank Num:	011
Container Num:	11
Year Installed:	Not reported

OIL OPERATORS INCORPORATED (Continued) **U001566108**

Tank Capacity: 00010770
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 3
Leak Detection: Visual, Groundwater Monitoring Well

Click here for Geo Tracker PDF:

D16 **OIL OPERATORS INC., SOUTH PROPERTY** **SEMS-ARCHIVE** **1003109071**
South **712 W. BAKER STREET** **CAN000905720**
1/8-1/4 **LONG BEACH, CA 90806**
0.180 mi.
948 ft. **Site 6 of 7 in cluster D**

Relative:
Lower

Actual:
30 ft.

SEMS Archive:
Site ID: 0905720
EPA ID: CAN000905720
Cong District: Not reported
FIPS Code: 06037
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: 0905720
EPA ID: CAN000905720
Site Name: OIL OPERATORS INC., SOUTH PROPERTY
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2013-11-07 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0905720
EPA ID: CAN000905720
Site Name: OIL OPERATORS INC., SOUTH PROPERTY
NPL: N
FF: N
OU: 00
Action Code: OO
Action Name: SITE REASS
SEQ: 1
Start Date: 2007-07-01 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0905720
EPA ID: CAN000905720
Site Name: OIL OPERATORS INC., SOUTH PROPERTY

OIL OPERATORS INC., SOUTH PROPERTY (Continued) **1003109071**

NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	2003-10-01 04:00:00
Finish Date:	2008-12-02 05:00:00
Qual:	N
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0905720
EPA ID:	CAN000905720
Site Name:	OIL OPERATORS INC., SOUTH PROPERTY
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	2000-03-13 05:00:00
Finish Date:	2000-03-13 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

D17
South
1/8-1/4
0.180 mi.
948 ft.

OIL OPERATORS (AST'S ONLY) **UST** **1005188563**
0712 W BAKER ST **N/A**
LONG BEACH, CA

Site 7 of 7 in cluster D

Relative:
Lower

Actual:
30 ft.

LONG BEACH UST:

DATA AS OF 02/25/2014:

Name:	OIL OPERATORS (AST'S ONLY)
Address:	0712 W BAKER ST
City,State,Zip:	LONG BEACH, CA
Region:	LONG BEACH
Tanks:	0T
Tank Test:	Not reported
Leak Test:	Not reported
Tank Status:	Not reported

18
NNW
1/8-1/4
0.236 mi.
1247 ft.

CALTRANS LONG BEACH, W LA RIVER #2 **SWF/LF** **S102360866**
W LOS ANGELES RIVER/AT END OF W. CARSON **CERS** **N/A**
LONG BEACH, CA

Relative:
Lower

Actual:
34 ft.

SWF/LF (SWIS):

Name:	CALTRANS LONG BEACH, W LA RIVER #2
Address:	W LOS ANGELES RIVER/AT END OF W. CARSON
City,State,Zip:	LONG BEACH, CA
Facility ID:	19-AK-5002
Lat/Long:	33.83167 / -118.20572

CALTRANS LONG BEACH, W LA RIVER #2 (Continued) **S102360866**

Owner Name:	Caltrans
Owner Telephone:	2138970458
Owner Address:	Not reported
Owner Address2:	120 S. Spring St.
Owner City,St,Zip:	Los Angles, CA 90012
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Rural,Commercial
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Annual
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	19-AK-5002
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	33.83167 / -118.20572

CERS:

Name:	CALTRANS LONG BEACH, W LA RIVER #2
Address:	W LOS ANGELES RIVER/AT END OF W. CARSON
City,State,Zip:	LONG BEACH, CA
Site ID:	507413
CERS ID:	19-AK-5002
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	Caltrans
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Los Angles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90012
Affiliation Phone:	2138970458

19
South
1/4-1/2
0.264 mi.
1396 ft.

BP PIPELINE/ARCO
- GOLDEN AVE.
LONG BEACH, CA 90806

CPS-SLIC **S118504655**
CERS **N/A**

Relative:
Higher

Actual:
55 ft.

CPS-SLIC:

Name:	BP PIPELINE/ARCO
Address:	- GOLDEN AVE.
City,State,Zip:	LONG BEACH, CA 90806
Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	01/02/2015
Global Id:	T10000004182
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	33.8218523065229
Longitude:	-118.20246219635
Case Type:	Cleanup Program Site
Case Worker:	RO
Local Agency:	LONG BEACH, CITY OF
RB Case Number:	0093A
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Dichloroethane (DCA), Benzene, Gasoline
Site History:	Initial soil gas investigations in the area were conducted by Oil Operators, Inc. (OOI), the property owner of the land parcel at 712 West Baker Street, Long Beach, California to the west of this site (OOI Geotracker page: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id= SL2044M1596). In July 2011, OOI conducted a soil gas survey under the Regional Boards direction. The survey included the OOI property, and extended into the Wrigley Heights residences as far east as Maine Avenue. The survey found that benzene vapors were present below the ground in some Wrigley Heights areas near Golden Avenue. The levels of benzene found presented no immediate risks to human health. To address any potential for long-term human health impacts,the Regional Board directed OOI to install and operate a soil vapor extraction (SVE) system. A SVE system reduces the risk of vapor intrusion by depressurizing the subsurface below the impacted areas. Additionally, SVE removes the contaminants from the soil by applying a vacuum and creating a controlled air flow. The gas leaving the soil is treated aboveground to remove the contaminants, and then released into the air in accordance with applicable air quality regulations. OOI installed an SVE system and operated it from September 2012 to September 2014. After further review of data from the investigations performed by OOI , the Regional Board determined that the benzene present underneath the ground in the residential neighborhood originates from a BP pipeline release along Golden Avenue. West Coast Products LLC, ARCO, and ARCO Terminal Services Corporation (collectively BP) previously owned and operated petroleum pipelines that extend beneath Golden Avenue in Long Beach, California, to the west of the Wrigley Heights residences. On June 1, 2013, Tesoro bought the pipelines, and assumed responsibility for assessment and remediation activities related to them. The Regional Board issued BP a tentative clean-up and abatement order (CAO) on April 26, 2013, and a CAO on September 19, 2014. The order requires BP (now Tesoro) to assume the responsibility of soil vapor intrusion mitigation for the Wrigley Heights residences. At this time, Tesoro has taken over soil

BP PIPELINE/ARCO (Continued) **S118504655**

vapor mitigation activities from OOI. A new SVE aboveground treatment compound owned and operated by Tesoro to treat the extracted vapors has been constructed on OOI property; no new extraction wells are planned for construction at this time. Tesoro resumed soil vapor extraction activities with their new system in the beginning of April 2015. An additional soil, soil vapor, and groundwater investigation has been completed by Tesoro, and the investigation report is under review. A human health risk assessment has been prepared and reviewed by the Office of Environmental Health Hazard Assessment. The Regional Board is currently directing additional actions to address the areas of concern.

Click here to access the California GeoTracker records for this facility:

CERS:
- Name: BP PIPELINE/ARCO
- Address: - GOLDEN AVE.
- City,State,Zip: LONG BEACH, CA 90806
- Site ID: 205796
- CERS ID: T10000004182
- CERS Description: Cleanup Program Site

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: REBECCA ORR - LOS ANGELES RWQCB (REGION 4)
- Entity Title: Not reported
- Affiliation Address: 320 W 4th St #200
- Affiliation City: LOS ANGELES
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: 2135766811

20
NW
1/4-1/2
0.322 mi.
1698 ft.

STORE FOR LESS **SEMS-ARCHIVE** **1003879514**
1012 WEST CARSON ST **PRP** **CAD983580879**
LONG BEACH, CA 90810

Relative:
Lower

Actual:
37 ft.

SEMS Archive:
- Site ID: 0903876
- EPA ID: CAD983580879
- Cong District: 32
- FIPS Code: 06037
- FF: N
- NPL: Not on the NPL
- Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Archive Detail:
- Region: 09
- Site ID: 0903876
- EPA ID: CAD983580879
- Site Name: STORE FOR LESS
- NPL: N
- FF: N
- OU: 00
- Action Code: VS

STORE FOR LESS (Continued) **1003879514**

Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse
Region:	09
Site ID:	0903876
EPA ID:	CAD983580879
Site Name:	STORE FOR LESS
NPL:	N
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-07-26 04:00:00
Finish Date:	1991-07-26 04:00:00
Qual:	V
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903876
EPA ID:	CAD983580879
Site Name:	STORE FOR LESS
NPL:	N
FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	1991-04-05 05:00:00
Finish Date:	1991-04-30 04:00:00
Qual:	C
Current Action Lead:	EPA Perf

PRP:

PRP Name:	LESTER FRIEDMAN MR. ROLAND SPONGBERG MR. SCOTT KIRKLAND SPONGBERG,KIRKLAND & ASSOC. SPONGBERG,KIRKLAND & ASSOC.

21
SSW
1/4-1/2
0.357 mi.
1885 ft.

BIXBY LAND CO. **CPS-SLIC** **S103547122**
1101 WARDLOW **N/A**
LONG BEACH, CA 90801

Relative:
Lower

Actual:
30 ft.

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0104
Substance:	TPH
Staff:	Manjulika Chakarbarti

E22
West
1/4-1/2
0.432 mi.
2280 ft.

RAYTHEON SYSTEMS CO
1500 HUGHES WAY
LONG BEACH, CA 90810

Site 1 of 3 in cluster E

SEMS
CORRACTS
RCRA-TSDF
RCRA-SQG

1015730703
CAT080012867

Relative:
Higher

Actual:
48 ft.

SEMS:

Site ID:	0903302
EPA ID:	CAT080012867
Cong District:	32
FIPS Code:	06037
Latitude:	Not reported
Longitude:	Not reported
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Detail:

Region:	09
Site ID:	0903302
EPA ID:	CAT080012867
Site Name:	HUGHES AIRCRAFT CO.
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1991-01-01 05:00:00
Finish Date:	1/1/1991 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0903302
EPA ID:	CAT080012867
Site Name:	HUGHES AIRCRAFT CO.
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	6/17/1991 4:00:00 AM
Qual:	D
Current Action Lead:	EPA Perf

CORRACTS:

EPA ID:	CAT080012867
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	Not reported
Action:	CA048ST
NAICS Code(s):	Not reported
Original schedule date:	19920104
Schedule end date:	Not reported

RAYTHEON SYSTEMS CO (Continued) **1015730703**

EPA ID: CAT080012867
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920327
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080012867
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920327
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080012867
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910522
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080012867
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910522
Action: CA029ST
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT080012867
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910522
Action: CA049PA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 02/18/1998
Facility name: RAYTHEON SYSTEMS CO

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Facility address:	1500 HUGHES WAY LONG BEACH, CA 90810-0399
EPA ID:	CAT080012867
Mailing address:	PO BOX 90515 BLDG 106 MS 1 LOS ANGELES, CA 90009
Contact:	J PATRICK MOHAN
Contact address:	1665 HUGHES WAY LONG BEACH, CA 90810-0399
Contact country:	US
Contact telephone:	310-513-3992
Contact email:	Not reported
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	RAYTHEON CO
Owner/operator address:	141 SPRING ST LEXINGTON, MA 02173
Owner/operator country:	Not reported
Owner/operator telephone:	781-860-2596
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/18/1998
Site name:	RAYTHEON SYSTEMS CO
Classification:	Large Quantity Generator
Date form received by agency:	09/01/1996
Site name:	RAYTHEON SYSTEMS CO
Classification:	Small Quantity Generator

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Date form received by agency: 02/21/1992
Site name: HUGHES AIRCRAFT CO/SUPPORT SYS
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980
Site name: RAYTHEON SYSTEMS CO
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Corrective Action Summary:
Event date: 05/22/1991
Event: LEAD AGENCY DETERMINATION

Event date: 05/22/1991
Event: PA OR CERCLA INSPECTION

Event date: 05/22/1991
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 03/27/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 03/27/1992
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 03/09/2001
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: Not reported
Event: RFA NEED BY ANOTHER AGCY

Facility Has Received Notices of Violations:
Regulation violated: F - 268 ALL

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Area of violation: LDR - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1999
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/28/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/11/1988
Date achieved compliance: 02/21/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/13/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/17/1994

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/05/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/27/1988
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/27/1988
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/27/1999
Evaluation lead agency: State

Evaluation date: 10/11/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/21/1989
Evaluation lead agency: State

RCRA-SQG:
Date form received by agency: 02/18/1998
Facility name: RAYTHEON SYSTEMS CO
Facility address: 1500 HUGHES WAY
LONG BEACH, CA 90810-0399
EPA ID: CAT080012867
Mailing address: PO BOX 90515 BLDG 106 MS 1
LOS ANGELES, CA 90009
Contact: J PATRICK MOHAN
Contact address: 1665 HUGHES WAY
LONG BEACH, CA 90810-0399
Contact country: US
Contact telephone: 310-513-3992
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: TSDF

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: RAYTHEON CO
Owner/operator address: 141 SPRING ST
LEXINGTON, MA 02173
Owner/operator country: Not reported
Owner/operator telephone: 781-860-2596
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/18/1998
Site name: RAYTHEON SYSTEMS CO
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: RAYTHEON SYSTEMS CO
Classification: Small Quantity Generator

Date form received by agency: 02/21/1992
Site name: HUGHES AIRCRAFT CO/SUPPORT SYS
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980
Site name: RAYTHEON SYSTEMS CO
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

RAYTHEON SYSTEMS CO (Continued) **1015730703**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Corrective Action Summary:
Event date: 05/22/1991
Event: LEAD AGENCY DETERMINATION

Event date: 05/22/1991
Event: PA OR CERCLA INSPECTION

Event date: 05/22/1991
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 03/27/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 03/27/1992
Event: CA PRIORITIZATION-LOW CA PRIORITY

Event date: 03/09/2001
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: Not reported
Event: RFA NEED BY ANOTHER AGCY

Facility Has Received Notices of Violations:
Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1999
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/14/1988
Date achieved compliance: 12/27/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/28/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/11/1988
Date achieved compliance: 02/21/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/13/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/17/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/05/1990
Evaluation: FINANCIAL RECORD REVIEW

RAYTHEON SYSTEMS CO (Continued) **1015730703**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/27/1988
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/27/1988
Evaluation lead agency: State

Evaluation date: 10/14/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/27/1999
Evaluation lead agency: State

Evaluation date: 10/11/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/21/1989
Evaluation lead agency: State

E23 **HUGHES AIRCRAFT COMPANY-LONG B** **EMI 1000240985**
West **1500 HUGHES WAY** **HWP N/A**
1/4-1/2 **LONG BEACH, CA 90805**
0.432 mi.
2280 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
48 ft.

EMI:

Name:	HUGHES AIRCRAFT COMPANY-LONG B
Address:	1500 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 908050000
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	70210
Air District Name:	SC
SIC Code:	3728
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:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HWP:

Name:	RAYTHEON COMPANY
Address:	1500 HUGHES WAY

HUGHES AIRCRAFT COMPANY-LONG B (Continued) **1000240985**

City,State,Zip:	LONG BEACH, CA 908101864
EPA Id:	CAT080012867
Cleanup Status:	CLOSED
Latitude:	33.82728
Longitude:	-118.2123
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	400222
Assembly District:	70
Senate District:	35
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Activities:

EPA Id:	CAT080012867
Facility Type:	Historical - Non-Operating
Unit Names:	Not reported
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	05/01/1983

EPA Id:	CAT080012867
Facility Type:	Historical - Non-Operating
Unit Names:	Not reported
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	11/08/1980

Closure:

EPA Id:	CAT080012867
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, TANKSTR1
Event Description:	Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date:	09/28/1992

EPA Id:	CAT080012867
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, TANKSTR1
Event Description:	Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date:	08/01/1992

Alias:

EPA Id:	CAT080012867
Facility Type:	Historical - Non-Operating
Alias Type:	Project Code (Site Code)
Alias:	400222

E24
West
1/4-1/2
0.432 mi.
2280 ft.

HUGHES TECHNICAL SERVICES COMP
1500,1665 HUGHES WAY
LONG BEACH, CA 90810

Site 3 of 3 in cluster E

ENVIROSTOR
FINDS
EMI
CERS

1005775628
N/A

Relative:
Higher

Actual:
48 ft.

ENVIROSTOR:

Name:	RAYTHEON COMPANY
Address:	1500 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 908101864
Facility ID:	80001843
Status:	No Action Required
Status Date:	05/31/2012
Site Code:	400222
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Katherine Gould
Supervisor:	* Unknown
Division Branch:	Cleanup Chatsworth
Assembly:	70
Senate:	35
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.82728
Longitude:	-118.2123
APN:	7310016072
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	7310016072
Alias Type:	APN
Alias Name:	CAT080012867
Alias Type:	EPA Identification Number
Alias Name:	400222
Alias Type:	Project Code (Site Code)
Alias Name:	80001843
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Interim Measures Questionnaire
Completed Date:	03/27/1992
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RCRA Facility Assessment Report
Completed Date:	03/09/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

Completed Document Type: Consent Order
Completed Date: 05/22/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/04/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/22/1991
Comments: PA Conducted by USEPA

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

FINDS:

Registry ID: 110002423244

Environmental Interest/Information System
HAZARDOUS AIR POLLUTANT MAJOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

EMI:

Name:	HUGHES AIRCRAFT CO
Address:	1500,1665 HUGHES WY
City,State,Zip:	LONG BEACH, CA 90810
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	2
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

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	HUGHES TECHNICAL SERVICES COMP
Address:	1500,1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	7
Reactive Organic Gases Tons/Yr:	1
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:	HUGHES TECHNICAL SERVICES COMP
Address:	1500,1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	7
Reactive Organic Gases Tons/Yr:	1
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:	HUGHES TECHNICAL SERVICES COMP
Address:	1500 1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

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: HUGHES TECHNICAL SERVICES COMP
Address: 1500,1665 HUGHES WAY
City,State,Zip: LONG BEACH, CA 90810
Year: 1997
County Code: 19
Air Basin: SC
Facility ID: 17629
Air District Name: SC
SIC Code: 3679
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: 1
Reactive Organic Gases Tons/Yr: 1
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: HUGHES TECHNICAL SERVICES COMP
Address: 1500,1665 HUGHES WAY
City,State,Zip: LONG BEACH, CA 90810
Year: 1998
County Code: 19
Air Basin: SC
Facility ID: 17629
Air District Name: SC
SIC Code: 3679
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: 1
Reactive Organic Gases Tons/Yr: 1
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: HUGHES TECHNICAL SERVICES COMP
Address: 1500,1665 HUGHES WAY
City,State,Zip: LONG BEACH, CA 90810
Year: 1999
County Code: 19
Air Basin: SC
Facility ID: 17629
Air District Name: SC
SIC Code: 3679
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
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:	HUGHES TECHNICAL SERVICES COMP
Address:	1500,1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	1
Reactive Organic Gases Tons/Yr:	1
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:	HUGHES TECHNICAL SERVICES COMP
Address:	1500,1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	17629
Air District Name:	SC
SIC Code:	3679
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:	1
Reactive Organic Gases Tons/Yr:	1
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

CERS:

Name:	HUGHES TECHNICAL SERVICES COMP
Address:	1500,1665 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810-1864
Site ID:	473039
CERS ID:	110002423244
CERS Description:	US EPA Air Emission Inventory System (EIS)

Name: RAYTHEON COMPANY

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

Address: 1500 HUGHES WAY
City,State,Zip: LONG BEACH, CA 908101864
Site ID: 213505
CERS ID: 80001843
CERS Description: Corrective Action

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: MR J PATRICK MOHAN MGR EHS
Entity Title: Not reported
Affiliation Address: 1665 HUGHES WY A02 2T21
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 908100399
Affiliation Phone: 3109524506

Affiliation Type Desc: Supervisor
Entity Name: * Unknown
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: Raytheon Company
Entity Title: Not reported
Affiliation Address: 141 SPRING ST
Affiliation City: LEXINGTON
Affiliation State: MA
Affiliation Country: Not reported
Affiliation Zip: 908100399
Affiliation Phone: 7818602596

Affiliation Type Desc: Lead Project Manager
Entity Name: KATHERINE GOULD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: RAYTHEON COMPANY
Address: 1500 HUGHES WAY
City,State,Zip: LONG BEACH, CA 908101864
Site ID: 213505
CERS ID: CAT080012867
CERS Description: Hazardous Waste

Affiliation:
Affiliation Type Desc: Facility Contact
Entity Name: MR J PATRICK MOHAN MGR EHS

HUGHES TECHNICAL SERVICES COMP (Continued) **1005775628**

Entity Title: Not reported
Affiliation Address: 1665 HUGHES WY A02 2T21
Affiliation City: LONG BEACH
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 908100399
Affiliation Phone: 3109524506

Affiliation Type Desc: Supervisor
Entity Name: * Unknown
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: Raytheon Company
Entity Title: Not reported
Affiliation Address: 141 SPRING ST
Affiliation City: LEXINGTON
Affiliation State: MA
Affiliation Country: Not reported
Affiliation Zip: 908100399
Affiliation Phone: 7818602596

Affiliation Type Desc: Lead Project Manager
Entity Name: KATHERINE GOULD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

25
West
1/2-1
0.584 mi.
3083 ft.

LONG BEACH USD-BOARD BUILDING **ENVIROSTOR** **S113174669**
1515 HUGHES WAY **SCH** **N/A**
LONG BEACH, CA 90810 **HAZNET**
CERS

Relative:
Lower

Actual:
41 ft.

ENVIROSTOR:
Name: LONG BEACH USD MASTER OVERSIGHT AGREEMENT
Address: 1515 HUGHES WAY
City,State,Zip: LONG BEACH, CA 90810
Facility ID: 60002177
Status: Active
Status Date: 03/10/2015
Site Code: 404908
Site Type: School Investigation
Site Type Detailed: School
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

Lead Agency: SMBRP
Program Manager: Shahir Haddad
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: , 70
Senate: , 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.82890
Longitude: -118.2136
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 404908
Alias Type: Project Code (Site Code)
Alias Name: 60002177
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/02/2015
Comments: Copy of fully executed Master VCA sent to District via regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/21/2016
Comments: Sent Revised Exhibit A to District to replace the exhibit in the Master VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/16/2016
Comments: District requested adding, via email of 06/16/16, two sites to Exhibit A of the Master VCA.

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: LONG BEACH USD MASTER OVERSIGHT AGREEMENT
Address: 1515 HUGHES WAY

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

City,State,Zip:	LONG BEACH, CA 90810
Facility ID:	60002177
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Shahir Haddad
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404908
Assembly:	, 70
Senate:	, 35
Special Program Status:	Not reported
Status:	Active
Status Date:	03/10/2015
Restricted Use:	NO
Funding:	School District
Latitude:	33.82890
Longitude:	-118.2136
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	404908
Alias Type:	Project Code (Site Code)
Alias Name:	60002177
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/02/2015
Comments:	Copy of fully executed Master VCA sent to District via regular mail.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	03/21/2016
Comments:	Sent Revised Exhibit A to District to replace the exhibit in the Master VCA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/16/2016
Comments:	District requested adding, via email of 06/16/16, two sites to Exhibit A of the Master VCA.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

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

HAZNET:
Name: LONG BEACH USD-BOARD BUILDING
Address: 1515 HUGHES WAY
City,State,Zip: LONG BEACH, CA 908100000
Year: 2000
GEPAID: CAR000059451
Contact: LONG BEACH USD-BOARD BLDG
Telephone: 5624265974
Mailing Name: Not reported
Mailing Address: 2425 WEBSTER AVE
Mailing City,St,Zip: LONG BEACH, CA 908100000
Gen County: Los Angeles
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 0.0425
CA Waste Code: 223-Unspecified oil-containing waste
Method: H01-Transfer Station
Facility County: Los Angeles

Name: LONG BEACH USD-BOARD BUILDING
Address: 1515 HUGHES WAY
City,State,Zip: LONG BEACH, CA 908100000
Year: 2000
GEPAID: CAR000059451
Contact: LONG BEACH USD-BOARD BLDG
Telephone: 5624265974
Mailing Name: Not reported
Mailing Address: 2425 WEBSTER AVE
Mailing City,St,Zip: LONG BEACH, CA 908100000
Gen County: Los Angeles
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 0.834
CA Waste Code: 223-Unspecified oil-containing waste
Method: T01-Treatment, Tank
Facility County: Los Angeles

CERS:
Name: LONG BEACH USD MASTE
Address: 1515 HUGHES WAY
City,State,Zip: LONG BEACH, CA 90810
Site ID: 339446
CERS ID: 60002177
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: SHAHIR HADDAD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CYPRESS

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Supervisor
Entity Name:	SHAHIR HADDAD
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Name:	ADMINISTRATION BUILDING
Address:	1515 HUGHES WAY
City,State,Zip:	LONG BEACH, CA 90810
Site ID:	361558
CERS ID:	10652482
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	361558
Site Name:	Administration Building
Violation Date:	10-29-2015
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/12/2016.
Violation Division:	Long Beach Environmental Heath
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	361558
Site Name:	Administration Building
Violation Date:	10-29-2015
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/12/2016. PROVIDE COPY OF CURRENT CUPA AND FIRE PERMIT.
Violation Division:	Long Beach Environmental Heath
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	12-03-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	REINSPECTION FOLLOWING 10/29/2015 ROUTINE. TWO PREVIOUS VIOLATIONS ARE OUTSTANDING. BOTH VIOLATIONS CORRECTED 1/12/2016.
Eval Division:	Long Beach Environmental Heath

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-29-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Long Beach Environmental Heath
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	361558
Facility Name:	Administration Building
Env Int Type Code:	HMBP
Program ID:	10652482
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.828960
Longitude:	-118.213770

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	Long Beach Unified School District
Entity Title:	Not reported
Affiliation Address:	1515 Hughes Way
Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90810
Affiliation Phone:	(562) 997-8000
Affiliation Type Desc:	Property Owner
Entity Name:	Long Beach Unified School District
Entity Title:	Not reported
Affiliation Address:	1515 Hughes Way
Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90810
Affiliation Phone:	(562) 997-8000
Affiliation Type Desc:	Document Preparer
Entity Name:	Steven Richards
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Steven Richards
Entity Title:	Not reported

LONG BEACH USD-BOARD BUILDING (Continued) **S113174669**

Affiliation Address:	2425 Webster Avenue
Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90810
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Steven Richards
Entity Title:	Maintenance Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Long Beach Environmental Heath
Entity Title:	Not reported
Affiliation Address:	2525 Grand Avenue
Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90815
Affiliation Phone:	(562) 570-4131
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1515 Hughes Way
Affiliation City:	Long Beach
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90810
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Long Beach Unified School District
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) 997-8000
Affiliation Type Desc:	Parent Corporation
Entity Name:	Administration Building
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

26
NW
1/2-1
0.727 mi.
3838 ft.

SOUTH REGION HIGH SCHOOL #4 5640019
WEST CARSON STREET/SANTA FE AVENUE
LONG BEACH, CA 90810

ENVIROSTOR SCH **S107737382 N/A**

Relative:
Lower

Actual:
42 ft.

ENVIROSTOR:

Name:	SOUTH REGION HIGH SCHOOL #4 5640019
Address:	WEST CARSON STREET/SANTA FE AVENUE
City,State,Zip:	LONG BEACH, CA 90810
Facility ID:	70000120
Status:	No Further Action
Status Date:	06/21/2006
Site Code:	304517
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	13.67
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	64
Senate:	35
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.83516
Longitude:	-118.2135
APN:	7310-013-901, 7310-015-012, 7310-015-901, 7310013901, 7310015901
Past Use:	OFFICE BUILDING, RAILROAD RIGHT OF WAY, RECREATION SERVICES
Potential COC:	Arsenic Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	IA, SOIL, SV
Alias Name:	7310-013-901
Alias Type:	APN
Alias Name:	7310-015-012
Alias Type:	APN
Alias Name:	7310-015-901
Alias Type:	APN
Alias Name:	7310013901
Alias Type:	APN
Alias Name:	7310015901
Alias Type:	APN
Alias Name:	304517
Alias Type:	Project Code (Site Code)
Alias Name:	70000120
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	11/14/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

SOUTH REGION HIGH SCHOOL #4 5640019 (Continued) **S107737382**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/16/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/19/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/01/2005
Comments: PEA Draft Joint Use Area

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/01/2005
Comments: Phase 1

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: SOUTH REGION HIGH SCHOOL #4 5640019
Address: WEST CARSON STREET/SANTA FE AVENUE
City,State,Zip: LONG BEACH, CA 90810
Facility ID: 70000120
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 13.67
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP

SOUTH REGION HIGH SCHOOL #4 5640019 (Continued) **S107737382**

Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304517
Assembly:	64
Senate:	35
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/21/2006
Restricted Use:	NO
Funding:	School District
Latitude:	33.83516
Longitude:	-118.2135
APN:	7310-013-901, 7310-015-012, 7310-015-901, 7310013901, 7310015901
Past Use:	OFFICE BUILDING, RAILROAD RIGHT OF WAY, RECREATION SERVICES
Potential COC:	Arsenic, Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	IA, SOIL, SV
Alias Name:	7310-013-901
Alias Type:	APN
Alias Name:	7310-015-012
Alias Type:	APN
Alias Name:	7310-015-901
Alias Type:	APN
Alias Name:	7310013901
Alias Type:	APN
Alias Name:	7310015901
Alias Type:	APN
Alias Name:	304517
Alias Type:	Project Code (Site Code)
Alias Name:	70000120
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	11/14/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	11/16/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/19/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	03/06/2006
Comments:	Not reported

SOUTH REGION HIGH SCHOOL #4 5640019 (Continued) **S107737382**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/21/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/01/2005
Comments:	PEA Draft Joint Use Area

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	04/01/2005
Comments:	Phase 1

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)
CARSON	S105911477	ACTA SOUTH - PARCEL SE-334	CARSON	90810	CPS-SLIC
CARSON	S103878607	K & T LOGISTIC CENTER	2417 CARSON	90810	CPS-SLIC, CERS
LONG BEACH	S107535929		710 FREEWAY & PACIFIC COAST HI		CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 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 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: 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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 42
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 06/10/2019
Date Data Arrived at EDR: 06/12/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
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: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
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: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

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: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

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: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
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: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
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: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
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: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 08/05/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
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: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
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: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 09/16/2019
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: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
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: 07/03/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
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: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
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: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
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: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
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: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
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: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
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: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 09/30/2019
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: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/16/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 63

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
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: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 70

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/17/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/22/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 56

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 06/05/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 47

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
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: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
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: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/30/2019
Date Data Arrived at EDR: 05/31/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 53

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/16/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 63

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/15/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/17/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
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: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 10/28/2019
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: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
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: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2019
Next Scheduled EDR Contact: 10/28/2019
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: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
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: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 04/04/2019
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 Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 05/23/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
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: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/18/2019
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 79

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/16/2019
Next Scheduled EDR Contact: 08/19/2019
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: 05/31/2019
Date Data Arrived at EDR: 05/31/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 56

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/19/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 60
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
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: 07/23/2019
Number of Days to Update: 47
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 49

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/28/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 05/09/2019
Date Data Arrived at EDR: 05/10/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 68

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
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: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
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: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
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: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/29/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 76
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3701 N PACIFIC PLACE
3701 N PACIFIC PLACE
LONG BEACH, CA 90806

TARGET PROPERTY COORDINATES

Latitude (North):	33.827419 - 33° 49' 38.71''
Longitude (West):	118.202981 - 118° 12' 10.73''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	388677.5
UTM Y (Meters):	3743477.5
Elevation:	45 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5652670 LONG BEACH, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

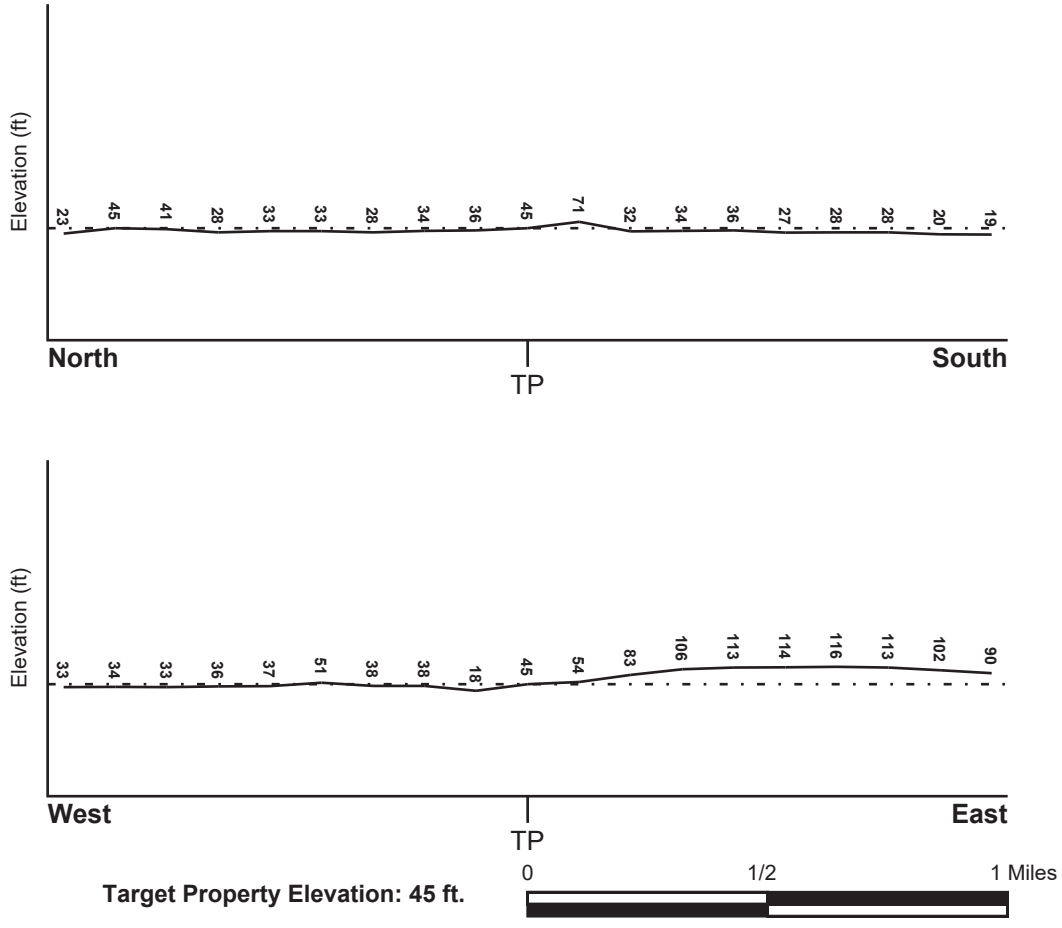
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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
06037C1955F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1960F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NORTH LONG BEACH (OE)	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
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).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000155024	1/2 - 1 Mile WSW
2	USGS40000138518	1/2 - 1 Mile NNW
3	USGS40000138415	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
9	CA3600767	1/2 - 1 Mile East

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	5349	1/2 - 1 Mile WNW
A5	5350	1/2 - 1 Mile WNW
A6	5348	1/2 - 1 Mile WNW
A7	5346	1/2 - 1 Mile WNW
A8	5347	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG13000133498	0 - 1/8 Mile West
B2	CAOG13000131322	0 - 1/8 Mile SE
A3	CAOG13000132963	0 - 1/8 Mile NNW
B4	CAOG13000131323	0 - 1/8 Mile SSE
C5	CAOG13000133501	0 - 1/8 Mile North
C6	CAOG13000132858	0 - 1/8 Mile North
C7	CAOG13000131984	0 - 1/8 Mile North
B8	CAOG13000131318	0 - 1/8 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
9	CAOG13000132772	0 - 1/8 Mile NE
B10	CAOG13000133439	0 - 1/8 Mile SE
C11	CAOG13000131321	0 - 1/8 Mile North
B12	CAOG13000131319	0 - 1/8 Mile SE
C13	CAOG13000133519	1/8 - 1/4 Mile North
C14	CAOG13000133520	1/8 - 1/4 Mile NNW
C15	CAOG13000133541	1/8 - 1/4 Mile NNW
D16	CAOG13000131325	1/8 - 1/4 Mile SE
17	CAOG13000133443	1/8 - 1/4 Mile East
D18	CAOG13000132060	1/8 - 1/4 Mile SE
19	CAOG13000133441	1/8 - 1/4 Mile South
E20	CAOG13000131092	1/8 - 1/4 Mile SSE
D21	CAOG13000131326	1/8 - 1/4 Mile SE
E22	CAOG13000131091	1/8 - 1/4 Mile SSE
23	CAOG13000130788	1/8 - 1/4 Mile North
E24	CAOG13000131327	1/4 - 1/2 Mile SE
F25	CAOG13000133521	1/4 - 1/2 Mile SE
F26	CAOG13000132125	1/4 - 1/2 Mile SE
G27	CAOG13000131411	1/4 - 1/2 Mile East
G28	CAOG13000130890	1/4 - 1/2 Mile East
29	CAOG13000131499	1/4 - 1/2 Mile NW
H30	CAOG13000130894	1/4 - 1/2 Mile ESE
31	CAOG13000132879	1/4 - 1/2 Mile NE
I32	CAOG13000132126	1/4 - 1/2 Mile SE
33	CAOG13000133438	1/4 - 1/2 Mile SE
I34	CAOG13000131078	1/4 - 1/2 Mile SE
J35	CAOG13000133166	1/4 - 1/2 Mile East
I36	CAOG13000132127	1/4 - 1/2 Mile SE
H37	CAOG13000130886	1/4 - 1/2 Mile ESE
K38	CAOG13000005391	1/4 - 1/2 Mile South
G39	CAOG13000130888	1/4 - 1/2 Mile East
I40	CAOG13000132066	1/4 - 1/2 Mile SE
H41	CAOG13000132164	1/4 - 1/2 Mile ESE
H42	CAOG13000131274	1/4 - 1/2 Mile ESE
J43	CAOG13000133408	1/4 - 1/2 Mile ESE
I44	CAOG13000133339	1/4 - 1/2 Mile SE
J45	CAOG13000132188	1/4 - 1/2 Mile East
J46	CAOG13000133204	1/4 - 1/2 Mile East
L47	CAOG13000132124	1/4 - 1/2 Mile SE
L48	CAOG13000131910	1/4 - 1/2 Mile ESE
49	CAOG13000131206	1/4 - 1/2 Mile WNW
J50	CAOG13000131415	1/4 - 1/2 Mile ESE
L51	CAOG13000133340	1/4 - 1/2 Mile SE
M52	CAOG13000132025	1/4 - 1/2 Mile ESE
N53	CAOG13000131320	1/4 - 1/2 Mile NNW
O54	CAOG13000132894	1/4 - 1/2 Mile East
M55	CAOG13000132874	1/4 - 1/2 Mile ESE
N56	CAOG13000133279	1/4 - 1/2 Mile NW
J57	CAOG13000131549	1/4 - 1/2 Mile East
L58	CAOG13000130828	1/4 - 1/2 Mile ESE
O59	CAOG13000133414	1/4 - 1/2 Mile East
K60	CAOG13000133442	1/4 - 1/2 Mile South
M61	CAOG13000132186	1/4 - 1/2 Mile East
L62	CAOG13000132337	1/4 - 1/2 Mile ESE
L63	CAOG13000131702	1/4 - 1/2 Mile ESE
M64	CAOG13000131416	1/4 - 1/2 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
M65	CAOG13000131336	1/4 - 1/2 Mile ESE
66	CAOG13000133280	1/4 - 1/2 Mile NW
M67	CAOG13000131676	1/4 - 1/2 Mile ESE
M68	CAOG13000130883	1/4 - 1/2 Mile ESE
P69	CAOG13000131275	1/4 - 1/2 Mile ESE
O70	CAOG13000132573	1/4 - 1/2 Mile East
Q71	CAOG13000130885	1/4 - 1/2 Mile East
O72	CAOG13000132209	1/4 - 1/2 Mile East
L73	CAOG13000132121	1/4 - 1/2 Mile SE
M74	CAOG13000131553	1/4 - 1/2 Mile ESE
L75	CAOG13000131980	1/4 - 1/2 Mile ESE
O76	CAOG13000131196	1/4 - 1/2 Mile East
R77	CAOG13000133341	1/2 - 1 Mile SE
P78	CAOG13000131580	1/2 - 1 Mile ESE
P79	CAOG13000130790	1/2 - 1 Mile ESE
P80	CAOG13000131226	1/2 - 1 Mile ESE
Q81	CAOG13000131339	1/2 - 1 Mile East
S82	CAOG13000130737	1/2 - 1 Mile ESE
O83	CAOG13000133084	1/2 - 1 Mile East
S84	CAOG13000132187	1/2 - 1 Mile East
S85	CAOG13000130741	1/2 - 1 Mile ESE
P86	CAOG13000131701	1/2 - 1 Mile ESE
O87	CAOG13000130889	1/2 - 1 Mile East
T88	CAOG13000133515	1/2 - 1 Mile NNW
P89	CAOG13000131979	1/2 - 1 Mile ESE
U90	CAOG13000133398	1/2 - 1 Mile East
R91	CAOG13000132123	1/2 - 1 Mile SE
S92	CAOG13000130740	1/2 - 1 Mile ESE
R93	CAOG13000132086	1/2 - 1 Mile SE
T94	CAOG13000132539	1/2 - 1 Mile NNW
S95	CAOG13000131295	1/2 - 1 Mile East
T96	CAOG13000005935	1/2 - 1 Mile NNW
P97	CAOG13000132837	1/2 - 1 Mile ESE
S98	CAOG13000131333	1/2 - 1 Mile ESE
S99	CAOG13000131316	1/2 - 1 Mile East
V100	CAOG13000130908	1/2 - 1 Mile ESE
V101	CAOG13000131556	1/2 - 1 Mile SE
S102	CAOG13000132095	1/2 - 1 Mile East
S103	CAOG13000131338	1/2 - 1 Mile East
S104	CAOG13000131564	1/2 - 1 Mile ESE
105	CAOG13000133440	1/2 - 1 Mile SSE
R106	CAOG13000132212	1/2 - 1 Mile SE
U107	CAOG13000132230	1/2 - 1 Mile East
T108	CAOG13000133513	1/2 - 1 Mile NNW
V109	CAOG13000132285	1/2 - 1 Mile ESE
U110	CAOG13000132231	1/2 - 1 Mile East
S111	CAOG13000131796	1/2 - 1 Mile East
W112	CAOG13000131076	1/2 - 1 Mile SE
S113	CAOG13000132181	1/2 - 1 Mile East
S114	CAOG13000131340	1/2 - 1 Mile ESE
X115	CAOG13000131930	1/2 - 1 Mile ESE
W116	CAOG13000132073	1/2 - 1 Mile SE
S117	CAOG13000132284	1/2 - 1 Mile East
118	CAOG13000133514	1/2 - 1 Mile NNW
Y119	CAOG13000131797	1/2 - 1 Mile East
S120	CAOG13000132208	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
V121	CAOG13000130738	1/2 - 1 Mile SE
Y122	CAOG13000131401	1/2 - 1 Mile East
W123	CAOG13000132064	1/2 - 1 Mile SE
Y124	CAOG13000131167	1/2 - 1 Mile ESE
X125	CAOG13000132627	1/2 - 1 Mile ESE
V126	CAOG13000130897	1/2 - 1 Mile ESE
X127	CAOG13000132628	1/2 - 1 Mile ESE
X128	CAOG13000130887	1/2 - 1 Mile ESE
X129	CAOG13000132983	1/2 - 1 Mile ESE
Z130	CAOG13000131562	1/2 - 1 Mile SSE
Y131	CAOG13000132018	1/2 - 1 Mile East
X132	CAOG13000132579	1/2 - 1 Mile ESE
W133	CAOG13000132211	1/2 - 1 Mile SE
Y134	CAOG13000132984	1/2 - 1 Mile East
X135	CAOG13000132982	1/2 - 1 Mile ESE
Y136	CAOG13000132110	1/2 - 1 Mile ESE
W137	CAOG13000131073	1/2 - 1 Mile SE
AA138	CAOG13000005718	1/2 - 1 Mile South
AB139	CAOG13000132947	1/2 - 1 Mile ESE
AB140	CAOG13000133208	1/2 - 1 Mile ESE
141	CAOG13000005217	1/2 - 1 Mile NW
AB142	CAOG13000132625	1/2 - 1 Mile ESE
AB143	CAOG13000131005	1/2 - 1 Mile ESE
Y144	CAOG13000132598	1/2 - 1 Mile East
W145	CAOG13000132065	1/2 - 1 Mile SE
AA146	CAOG13000005719	1/2 - 1 Mile South
X147	CAOG13000132289	1/2 - 1 Mile ESE
X148	CAOG13000131096	1/2 - 1 Mile ESE
X149	CAOG13000131403	1/2 - 1 Mile ESE
150	CAOG13000005349	1/2 - 1 Mile SSE
151	CAOG13000131565	1/2 - 1 Mile East
Z152	CAOG13000132122	1/2 - 1 Mile SE
X153	CAOG13000132624	1/2 - 1 Mile ESE
Y154	CAOG13000131911	1/2 - 1 Mile East
X155	CAOG13000131337	1/2 - 1 Mile ESE
AC156	CAOG13000132205	1/2 - 1 Mile SE
AB157	CAOG13000131026	1/2 - 1 Mile ESE
AD158	CAOG13000131051	1/2 - 1 Mile East
AB159	CAOG13000132978	1/2 - 1 Mile ESE
AC160	CAOG13000132062	1/2 - 1 Mile SE
AE161	CAOG13000132626	1/2 - 1 Mile ESE
AE162	CAOG13000132030	1/2 - 1 Mile ESE
AB163	CAOG13000131465	1/2 - 1 Mile ESE
AD164	CAOG13000131711	1/2 - 1 Mile East
AF165	CAOG13000131107	1/2 - 1 Mile SE
AC166	CAOG13000132248	1/2 - 1 Mile SE
AC167	CAOG13000131738	1/2 - 1 Mile SE
AC168	CAOG13000132063	1/2 - 1 Mile SE
AD169	CAOG13000131645	1/2 - 1 Mile ESE
AD170	CAOG13000131405	1/2 - 1 Mile ESE
AD171	CAOG13000131317	1/2 - 1 Mile ESE
AB172	CAOG13000131029	1/2 - 1 Mile ESE
AF173	CAOG13000133333	1/2 - 1 Mile SE
AE174	CAOG13000130787	1/2 - 1 Mile ESE
AC175	CAOG13000132247	1/2 - 1 Mile SE
AC176	CAOG13000132300	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AF177	CAOG13000131597	1/2 - 1 Mile ESE
AD178	CAOG13000131407	1/2 - 1 Mile ESE
AC179	CAOG13000133178	1/2 - 1 Mile SE
AB180	CAOG13000131420	1/2 - 1 Mile ESE
AB181	CAOG13000131050	1/2 - 1 Mile ESE
AE182	CAOG13000132010	1/2 - 1 Mile ESE
AD183	CAOG13000131561	1/2 - 1 Mile ESE
AE184	CAOG13000130901	1/2 - 1 Mile ESE
AE185	CAOG13000132820	1/2 - 1 Mile ESE
AD186	CAOG13000132836	1/2 - 1 Mile East
AC187	CAOG13000131832	1/2 - 1 Mile SE
AF188	CAOG13000131074	1/2 - 1 Mile SE
AD189	CAOG13000130891	1/2 - 1 Mile East
AE190	CAOG13000132339	1/2 - 1 Mile ESE
AE191	CAOG13000131303	1/2 - 1 Mile ESE
AG192	CAOG13000131419	1/2 - 1 Mile ESE
AG193	CAOG13000131811	1/2 - 1 Mile ESE
AD194	CAOG13000131049	1/2 - 1 Mile ESE
AF195	CAOG13000132590	1/2 - 1 Mile SE
AH196	CAOG13000131088	1/2 - 1 Mile SE
AF197	CAOG13000132206	1/2 - 1 Mile ESE
AE198	CAOG13000132822	1/2 - 1 Mile ESE
AE199	CAOG13000131655	1/2 - 1 Mile ESE
AE200	CAOG13000133081	1/2 - 1 Mile ESE
AC201	CAOG13000131833	1/2 - 1 Mile SE
AG202	CAOG13000131304	1/2 - 1 Mile ESE
AF203	CAOG13000132224	1/2 - 1 Mile SE
AH204	CAOG13000132074	1/2 - 1 Mile SE
AE205	CAOG13000132338	1/2 - 1 Mile ESE
AG206	CAOG13000131278	1/2 - 1 Mile ESE
AI207	CAOG13000131421	1/2 - 1 Mile ESE
AE208	CAOG13000133428	1/2 - 1 Mile ESE
AH209	CAOG13000133089	1/2 - 1 Mile SE
AG210	CAOG13000133427	1/2 - 1 Mile ESE
AJ211	CAOG13000132249	1/2 - 1 Mile ESE
AG212	CAOG13000131354	1/2 - 1 Mile ESE
AG213	CAOG13000131279	1/2 - 1 Mile ESE
AG214	CAOG13000132295	1/2 - 1 Mile ESE
AK215	CAOG13000131830	1/2 - 1 Mile SE
AH216	CAOG13000133397	1/2 - 1 Mile SE
AI217	CAOG13000131445	1/2 - 1 Mile ESE
AI218	CAOG13000132329	1/2 - 1 Mile ESE
AI219	CAOG13000131408	1/2 - 1 Mile ESE
AG220	CAOG13000132990	1/2 - 1 Mile ESE
AH221	CAOG13000132045	1/2 - 1 Mile SE
AI222	CAOG13000131851	1/2 - 1 Mile ESE
AL223	CAOG13000131273	1/2 - 1 Mile ESE
AH224	CAOG13000131480	1/2 - 1 Mile SE
AJ225	CAOG13000132250	1/2 - 1 Mile ESE
AI226	CAOG13000132001	1/2 - 1 Mile ESE
AJ227	CAOG13000132155	1/2 - 1 Mile ESE
AH228	CAOG13000132075	1/2 - 1 Mile SE
AL229	CAOG13000132987	1/2 - 1 Mile SE
AK230	CAOG13000132794	1/2 - 1 Mile SE
AL231	CAOG13000131277	1/2 - 1 Mile ESE
AL232	CAOG13000130881	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AM233	CAOG13000131566	1/2 - 1 Mile ESE
AN234	CAOG13000131111	1/2 - 1 Mile SE
AI235	CAOG13000131993	1/2 - 1 Mile ESE
AK236	CAOG13000131687	1/2 - 1 Mile SE
AI237	CAOG13000130884	1/2 - 1 Mile ESE
AL238	CAOG13000131276	1/2 - 1 Mile ESE
AN239	CAOG13000131216	1/2 - 1 Mile SSE
AM240	CAOG13000131016	1/2 - 1 Mile ESE
AO241	CAOG13000132040	1/2 - 1 Mile SE
242	CAOG13000005720	1/2 - 1 Mile South
AP243	CAOG13000132026	1/2 - 1 Mile ESE
AI244	CAOG13000133317	1/2 - 1 Mile ESE
AJ245	CAOG13000131794	1/2 - 1 Mile ESE
AL246	CAOG13000132594	1/2 - 1 Mile ESE
AI247	CAOG13000132773	1/2 - 1 Mile ESE
AL248	CAOG13000132218	1/2 - 1 Mile ESE
AJ249	CAOG13000131792	1/2 - 1 Mile ESE
AQ250	CAOG13000005438	1/2 - 1 Mile North
AK251	CAOG13000133403	1/2 - 1 Mile SE
AN252	CAOG13000131831	1/2 - 1 Mile SE
AK253	CAOG13000132204	1/2 - 1 Mile SE
AN254	CAOG13000132798	1/2 - 1 Mile SE
AL255	CAOG13000131024	1/2 - 1 Mile SE
AL256	CAOG13000131692	1/2 - 1 Mile ESE
AM257	CAOG13000132840	1/2 - 1 Mile ESE
AK258	CAOG13000131018	1/2 - 1 Mile SE
AP259	CAOG13000132024	1/2 - 1 Mile ESE
AP260	CAOG13000132597	1/2 - 1 Mile ESE
AL261	CAOG13000132251	1/2 - 1 Mile ESE
AL262	CAOG13000132207	1/2 - 1 Mile SE
AM263	CAOG13000131793	1/2 - 1 Mile ESE
AN264	CAOG13000132582	1/2 - 1 Mile SE
AO265	CAOG13000132067	1/2 - 1 Mile SE
AM266	CAOG13000133419	1/2 - 1 Mile ESE
AL267	CAOG13000131418	1/2 - 1 Mile ESE
AP268	CAOG13000133104	1/2 - 1 Mile ESE
AR269	CAOG13000132214	1/2 - 1 Mile SE
AM270	CAOG13000131432	1/2 - 1 Mile ESE
AM271	CAOG13000131181	1/2 - 1 Mile ESE
272	CAOG13000131094	1/2 - 1 Mile ESE
AN273	CAOG13000131006	1/2 - 1 Mile SE
AO274	CAOG13000131164	1/2 - 1 Mile SE
AL275	CAOG13000133365	1/2 - 1 Mile ESE
AM276	CAOG13000130762	1/2 - 1 Mile ESE
AP277	CAOG13000133083	1/2 - 1 Mile ESE
AR278	CAOG13000131524	1/2 - 1 Mile SE
AR279	CAOG13000131008	1/2 - 1 Mile SE
AM280	CAOG13000131997	1/2 - 1 Mile ESE
AS281	CAOG13000133364	1/2 - 1 Mile ESE
AM282	CAOG13000131795	1/2 - 1 Mile ESE
AP283	CAOG13000131310	1/2 - 1 Mile ESE
AR284	CAOG13000133164	1/2 - 1 Mile SE
AP285	CAOG13000130930	1/2 - 1 Mile ESE
AO286	CAOG13000131736	1/2 - 1 Mile SE
AT287	CAOG13000133328	1/2 - 1 Mile ESE
AP288	CAOG13000130958	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AM289	CAOG13000133090	1/2 - 1 Mile ESE
AS290	CAOG13000130779	1/2 - 1 Mile ESE
AS291	CAOG13000133516	1/2 - 1 Mile SE
AP292	CAOG13000131829	1/2 - 1 Mile ESE
AT293	CAOG13000131227	1/2 - 1 Mile ESE
AR294	CAOG13000130998	1/2 - 1 Mile SE
AM295	CAOG13000132572	1/2 - 1 Mile ESE
AO296	CAOG13000132047	1/2 - 1 Mile SE
AT297	CAOG13000131180	1/2 - 1 Mile ESE
AR298	CAOG13000132793	1/2 - 1 Mile SE
AP299	CAOG13000131721	1/2 - 1 Mile ESE
AS300	CAOG13000131114	1/2 - 1 Mile SE
AR301	CAOG13000131000	1/2 - 1 Mile SE
AO302	CAOG13000131081	1/2 - 1 Mile SE
AR303	CAOG13000131002	1/2 - 1 Mile SE
AT304	CAOG13000131404	1/2 - 1 Mile ESE
AT305	CAOG13000131493	1/2 - 1 Mile ESE
AT306	CAOG13000131798	1/2 - 1 Mile ESE
307	CAOG13000131584	1/2 - 1 Mile East
AR308	CAOG13000131931	1/2 - 1 Mile SE
AQ309	CAOG13000005657	1/2 - 1 Mile North
AT310	CAOG13000132183	1/2 - 1 Mile ESE
AS311	CAOG13000133174	1/2 - 1 Mile ESE
AO312	CAOG13000132079	1/2 - 1 Mile SE
AT313	CAOG13000131492	1/2 - 1 Mile ESE
AT314	CAOG13000130854	1/2 - 1 Mile ESE
AR315	CAOG13000131071	1/2 - 1 Mile SE
AS316	CAOG13000132006	1/2 - 1 Mile ESE
AR317	CAOG13000133383	1/2 - 1 Mile SE
AT318	CAOG13000130957	1/2 - 1 Mile ESE
AR319	CAOG13000130999	1/2 - 1 Mile SE
AT320	CAOG13000132091	1/2 - 1 Mile ESE
AS321	CAOG13000130895	1/2 - 1 Mile SE
AS322	CAOG13000131588	1/2 - 1 Mile SE
AU323	CAOG13000131889	1/2 - 1 Mile ESE
AS324	CAOG13000131600	1/2 - 1 Mile SE
AR325	CAOG13000131663	1/2 - 1 Mile SE
AT326	CAOG13000132190	1/2 - 1 Mile ESE
AS327	CAOG13000130758	1/2 - 1 Mile SE
AU328	CAOG13000130802	1/2 - 1 Mile ESE
AR329	CAOG13000130939	1/2 - 1 Mile SE
AU330	CAOG13000132860	1/2 - 1 Mile ESE
AV331	CAOG13000131788	1/2 - 1 Mile ESE
AW332	CAOG13000131004	1/2 - 1 Mile SE
AS333	CAOG13000133337	1/2 - 1 Mile ESE
AU334	CAOG13000130717	1/2 - 1 Mile ESE
AV335	CAOG13000132586	1/2 - 1 Mile ESE
AT336	CAOG13000130959	1/2 - 1 Mile ESE
AT337	CAOG13000132821	1/2 - 1 Mile ESE
AT338	CAOG13000131827	1/2 - 1 Mile ESE
AR339	CAOG13000133357	1/2 - 1 Mile SE
AX340	CAOG13000132226	1/2 - 1 Mile SE
AX341	CAOG13000131630	1/2 - 1 Mile SE
AR342	CAOG13000131503	1/2 - 1 Mile SE
AT343	CAOG13000133421	1/2 - 1 Mile ESE
AW344	CAOG13000133381	1/2 - 1 Mile SE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AX345	CAOG13000131412	1/2 - 1 Mile SE
AT346	CAOG13000131888	1/2 - 1 Mile ESE
AX347	CAOG13000132049	1/2 - 1 Mile SE
348	CAOG13000005536	1/2 - 1 Mile North
AV349	CAOG13000131606	1/2 - 1 Mile ESE
AU350	CAOG13000130774	1/2 - 1 Mile ESE
AW351	CAOG13000130994	1/2 - 1 Mile SE
AT352	CAOG13000132841	1/2 - 1 Mile ESE
AV353	CAOG13000131560	1/2 - 1 Mile ESE
AS354	CAOG13000130763	1/2 - 1 Mile SE
AU355	CAOG13000131355	1/2 - 1 Mile ESE
AX356	CAOG13000131079	1/2 - 1 Mile SE
AX357	CAOG13000133336	1/2 - 1 Mile SE
358	CAOG13000005549	1/2 - 1 Mile NE
AU359	CAOG13000132259	1/2 - 1 Mile ESE
AX360	CAOG13000132008	1/2 - 1 Mile SE
AY361	CAOG13000131502	1/2 - 1 Mile SE
AU362	CAOG13000131964	1/2 - 1 Mile ESE
AW363	CAOG13000130995	1/2 - 1 Mile SE
AZ364	CAOG13000130914	1/2 - 1 Mile ESE
AU365	CAOG13000131883	1/2 - 1 Mile ESE
AU366	CAOG13000133278	1/2 - 1 Mile ESE
BA367	CAOG13000131292	1/2 - 1 Mile ESE
AW368	CAOG13000131007	1/2 - 1 Mile SE
AZ369	CAOG13000131116	1/2 - 1 Mile ESE
AY370	CAOG13000130861	1/2 - 1 Mile SE
BA371	CAOG13000132225	1/2 - 1 Mile ESE
AW372	CAOG13000130935	1/2 - 1 Mile SE
AU373	CAOG13000131863	1/2 - 1 Mile ESE
AX374	CAOG13000131356	1/2 - 1 Mile SE
BA375	CAOG13000132819	1/2 - 1 Mile ESE
AW376	CAOG13000131622	1/2 - 1 Mile SE
AZ377	CAOG13000131284	1/2 - 1 Mile ESE
AV378	CAOG13000131722	1/2 - 1 Mile ESE
AU379	CAOG13000130808	1/2 - 1 Mile ESE
BA380	CAOG13000131978	1/2 - 1 Mile ESE
AZ381	CAOG13000131115	1/2 - 1 Mile ESE
AX382	CAOG13000131882	1/2 - 1 Mile SE
AW383	CAOG13000131375	1/2 - 1 Mile SE
AU384	CAOG13000131718	1/2 - 1 Mile ESE
AY385	CAOG13000131209	1/2 - 1 Mile SE
BA386	CAOG13000132034	1/2 - 1 Mile ESE
AY387	CAOG13000131208	1/2 - 1 Mile SE
BA388	CAOG13000132090	1/2 - 1 Mile ESE
AY389	CAOG13000133165	1/2 - 1 Mile SE
AX390	CAOG13000131090	1/2 - 1 Mile SE
AZ391	CAOG13000131028	1/2 - 1 Mile ESE
AX392	CAOG13000131598	1/2 - 1 Mile SE
AY393	CAOG13000132014	1/2 - 1 Mile SE
AZ394	CAOG13000131924	1/2 - 1 Mile ESE
AX395	CAOG13000131012	1/2 - 1 Mile SE
AZ396	CAOG13000131386	1/2 - 1 Mile ESE
AY397	CAOG13000130927	1/2 - 1 Mile SE
BB398	CAOG13000130882	1/2 - 1 Mile ESE
BA399	CAOG13000132228	1/2 - 1 Mile ESE
AV400	CAOG13000133356	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BB401	CAOG13000131382	1/2 - 1 Mile ESE
BC402	CAOG13000132071	1/2 - 1 Mile SE
BC403	CAOG13000132072	1/2 - 1 Mile SE
BA404	CAOG13000130960	1/2 - 1 Mile ESE
AX405	CAOG13000131881	1/2 - 1 Mile SE
BA406	CAOG13000131183	1/2 - 1 Mile ESE
AY407	CAOG13000131155	1/2 - 1 Mile SE
BC408	CAOG13000131880	1/2 - 1 Mile SE
AZ409	CAOG13000131126	1/2 - 1 Mile ESE
BA410	CAOG13000131467	1/2 - 1 Mile ESE
AZ411	CAOG13000131138	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 5729718.2s

- 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:	3701 N Pacific Place	CLIENT:	Roux Associates
ADDRESS:	3701 N Pacific Place Long Beach CA 90806	CONTACT:	Holly Hutcheson
LAT/LONG:	33.827419 / 118.202981	INQUIRY #:	5729718.2s
		DATE:	July 26, 2019 12:29 pm

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
WSW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000155024**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W14L001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	308	Level reading date:	1987-08-28
Feet below surface:	41.72	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1987-07-24	Feet below surface:	41.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-23	Feet below surface:	41.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-01	Feet below surface:	41.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-05-01	Feet below surface:	41.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-04-03	Feet below surface:	41.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-27	Feet below surface:	39.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-02	Feet below surface:	43.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-26	Feet below surface:	41.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-01	Feet below surface:	41.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-10-27	Feet below surface:	42.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-26	Feet below surface:	42.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-02	Feet below surface:	43.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-25	Feet below surface:	42.42
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1986-07-07	Feet below surface:	42.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-05-29	Feet below surface:	42.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-25	Feet below surface:	43.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-01	Feet below surface:	43.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	40.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-31	Feet below surface:	43.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-27	Feet below surface:	45.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-22	Feet below surface:	45.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-10-25	Feet below surface:	43.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-09-27	Feet below surface:	43.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-30	Feet below surface:	43.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-07-26	Feet below surface:	43.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-28	Feet below surface:	43.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-27	Feet below surface:	43.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-26	Feet below surface:	42.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-29	Feet below surface:	44.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-01	Feet below surface:	44.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-25	Feet below surface:	45.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-12-20	Feet below surface:	45.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-20	Feet below surface:	45.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-22	Feet below surface:	45.72
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-09-20	Feet below surface:	45.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-20	Feet below surface:	45.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-07-23	Feet below surface:	47.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-06-20	Feet below surface:	45.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-21	Feet below surface:	50.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-23	Feet below surface:	45.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-26	Feet below surface:	47.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-24	Feet below surface:	47.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-30	Feet below surface:	46.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-30	Feet below surface:	45.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-23	Feet below surface:	46.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-09-29	Feet below surface:	47.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-01	Feet below surface:	50.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-07-01	Feet below surface:	48.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-28	Feet below surface:	47.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-23	Feet below surface:	47.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-29	Feet below surface:	47.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-29	Feet below surface:	48.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-05	Feet below surface:	50.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-26	Feet below surface:	48.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-10	Feet below surface:	48.52
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-12-03	Feet below surface:	50.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	51.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-23	Feet below surface:	49.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-13	Feet below surface:	49.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-08	Feet below surface:	49.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-24	Feet below surface:	39.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	51.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	49.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-29	Feet below surface:	49.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-23	Feet below surface:	49.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-24	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-22	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-29	Feet below surface:	49.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	49.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	49.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-20	Feet below surface:	49.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-23	Feet below surface:	49.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-26	Feet below surface:	49.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-21	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-09-23	Feet below surface:	49.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-20	Feet below surface:	49.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-22	Feet below surface:	51.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-20	Feet below surface:	49.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-20	Feet below surface:	49.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-18	Feet below surface:	49.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-21	Feet below surface:	52.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	50.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	50.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-12-20	Feet below surface:	51.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-26	Feet below surface:	50.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-27	Feet below surface:	51.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-24	Feet below surface:	51.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-26	Feet below surface:	51.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	50.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-18	Feet below surface:	50.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-25	Feet below surface:	49.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-03-25	Feet below surface:	51.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	51.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-18	Feet below surface:	50.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-21	Feet below surface:	52.02
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-11-28	Feet below surface:	52.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-20	Feet below surface:	52.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	52.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-09	Feet below surface:	53.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-19	Feet below surface:	53.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-14	Feet below surface:	53.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-17	Feet below surface:	53.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-19	Feet below surface:	53.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-29	Feet below surface:	53.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-22	Feet below surface:	54.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-01-18	Feet below surface:	54.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-21	Feet below surface:	54.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-02	Feet below surface:	54.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-14	Feet below surface:	54.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-10	Feet below surface:	54.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-13	Feet below surface:	55.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-08	Feet below surface:	55.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-18	Feet below surface:	55.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-11	Feet below surface:	55.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	55.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-09	Feet below surface:	55.82
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-12-22	Feet below surface:	56.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-20	Feet below surface:	56.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-22	Feet below surface:	56.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-25	Feet below surface:	56.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-21	Feet below surface:	56.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-16	Feet below surface:	56.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-19	Feet below surface:	61.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-21	Feet below surface:	58.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-17	Feet below surface:	57.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-18	Feet below surface:	56.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-07	Feet below surface:	56.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-17	Feet below surface:	56.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-05	Feet below surface:	57.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	56.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-24	Feet below surface:	56.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-20	Feet below surface:	56.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-29	Feet below surface:	56.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	57.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-21	Feet below surface:	57.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-09	Feet below surface:	60.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-19	Feet below surface:	62.12
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-02-20	Feet below surface:	57.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-20	Feet below surface:	58.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-20	Feet below surface:	58.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-02	Feet below surface:	58.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-19	Feet below surface:	58.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-06-19	Feet below surface:	58.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-23	Feet below surface:	58.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-19	Feet below surface:	59.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-20	Feet below surface:	59.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-20	Feet below surface:	59.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	59.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-19	Feet below surface:	59.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-07	Feet below surface:	59.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-10	Feet below surface:	59.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-19	Feet below surface:	59.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-15	Feet below surface:	64.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-18	Feet below surface:	63.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-13	Feet below surface:	60.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-23	Feet below surface:	63.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-25	Feet below surface:	60.92
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-03-14	Feet below surface:	61.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-14	Feet below surface:	62.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-24	Feet below surface:	68.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-21	Feet below surface:	61.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-17	Feet below surface:	63.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-10-18	Feet below surface:	61.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-20	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-21	Feet below surface:	62.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-14	Feet below surface:	62.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-24	Feet below surface:	63.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-26	Feet below surface:	63.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-15	Feet below surface:	63.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-28	Feet below surface:	63.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-26	Feet below surface:	63.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-29	Feet below surface:	63.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11-17	Feet below surface:	63.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-10-27	Feet below surface:	63.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-22	Feet below surface:	73.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-08-25	Feet below surface:	64.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-07-21	Feet below surface:	64.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-23	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1971-05-19	Feet below surface:	64.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-21	Feet below surface:	64.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-24	Feet below surface:	65.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-02-24	Feet below surface:	65.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-20	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-28	Feet below surface:	65.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-11-23	Feet below surface:	65.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-26	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-21	Feet below surface:	65.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-08-24	Feet below surface:	64.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-27	Feet below surface:	64.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-22	Feet below surface:	64.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-25	Feet below surface:	64.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-20	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-23	Feet below surface:	64.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-02-23	Feet below surface:	64.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-26	Feet below surface:	64.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-12-22	Feet below surface:	64.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-24	Feet below surface:	64.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-27	Feet below surface:	64.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-09-22	Feet below surface:	64.87
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-08-25	Feet below surface:	64.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-07-28	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-06-23	Feet below surface:	65.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-26	Feet below surface:	64.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-21	Feet below surface:	65.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-24	Feet below surface:	65.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-02-24	Feet below surface:	64.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-20	Feet below surface:	64.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-12-16	Feet below surface:	64.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-11-25	Feet below surface:	64.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10-21	Feet below surface:	64.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-23	Feet below surface:	64.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-19	Feet below surface:	64.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-07-22	Feet below surface:	64.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-06-24	Feet below surface:	64.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-20	Feet below surface:	64.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-22	Feet below surface:	64.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-25	Feet below surface:	63.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-02-19	Feet below surface:	63.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-01-22	Feet below surface:	63.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-12-26	Feet below surface:	63.84
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-11-27	Feet below surface:	63.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-30	Feet below surface:	63.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-25	Feet below surface:	63.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-28	Feet below surface:	63.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-07-24	Feet below surface:	63.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-26	Feet below surface:	63.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-29	Feet below surface:	62.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-24	Feet below surface:	62.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-27	Feet below surface:	67.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-20	Feet below surface:	62.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-23	Feet below surface:	62.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-26	Feet below surface:	62.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-28	Feet below surface:	62.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-24	Feet below surface:	62.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-26	Feet below surface:	62.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-22	Feet below surface:	62.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-25	Feet below surface:	62.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-30	Feet below surface:	62.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-30	Feet below surface:	62.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-25	Feet below surface:	62.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-28	Feet below surface:	61.89
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1966-02-28	Feet below surface:	61.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-31	Feet below surface:	61.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-27	Feet below surface:	61.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-29	Feet below surface:	61.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-25	Feet below surface:	61.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-27	Feet below surface:	61.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-08-30	Feet below surface:	61.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-27	Feet below surface:	61.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-28	Feet below surface:	60.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-24	Feet below surface:	60.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-26	Feet below surface:	60.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-29	Feet below surface:	60.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-22	Feet below surface:	60.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-25	Feet below surface:	60.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-30	Feet below surface:	60.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-30	Feet below surface:	60.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-26	Feet below surface:	59.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-28	Feet below surface:	59.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-31	Feet below surface:	59.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-27	Feet below surface:	59.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-29	Feet below surface:	59.37
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-05-25	Feet below surface:	59.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-27	Feet below surface:	58.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-30	Feet below surface:	58.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-24	Feet below surface:	58.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-27	Feet below surface:	58.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-30	Feet below surface:	58.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-25	Feet below surface:	58.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-28	Feet below surface:	58.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-23	Feet below surface:	58.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-26	Feet below surface:	58.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-07-29	Feet below surface:	58.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-24	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-27	Feet below surface:	57.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-29	Feet below surface:	58.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-25	Feet below surface:	57.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-25	Feet below surface:	57.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-28	Feet below surface:	57.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-24	Feet below surface:	57.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-26	Feet below surface:	57.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-29	Feet below surface:	57.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-24	Feet below surface:	57.35
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-08-27	Feet below surface:	57.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-07-30	Feet below surface:	57.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-25	Feet below surface:	57.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-28	Feet below surface:	57.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-04-23	Feet below surface:	57.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-26	Feet below surface:	57.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-26	Feet below surface:	56.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-29	Feet below surface:	55.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-25	Feet below surface:	55.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-27	Feet below surface:	55.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-30	Feet below surface:	55.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-25	Feet below surface:	55.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-28	Feet below surface:	56.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-31	Feet below surface:	56.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-26	Feet below surface:	54.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-29	Feet below surface:	54.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-24	Feet below surface:	54.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-27	Feet below surface:	54.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-27	Feet below surface:	54.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-30	Feet below surface:	54.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-05	Feet below surface:	20.62
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

2
NNW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000138518**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W115003S	Type:	Well
Description:	Not Reported	HUC:	18070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	113
Well Depth Units:	ft	Well Hole Depth:	167
Well Hole Depth Units:	ft		

3
SW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000138415**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W23B002S	Type:	Well
Description:	Not Reported	HUC:	18070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	1068
Well Depth Units:	ft	Well Hole Depth:	1068
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1580	Level reading date:	1987-08-28
Feet below surface:	94.58	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1987-07-24	Feet below surface:	97.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-23	Feet below surface:	95.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-01	Feet below surface:	92.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-05-01	Feet below surface:	94.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-04-03	Feet below surface:	94.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-27	Feet below surface:	93.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-02	Feet below surface:	93.01

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-26	Feet below surface:	89.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-01	Feet below surface:	92.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-10-27	Feet below surface:	94.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-26	Feet below surface:	95.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-02	Feet below surface:	97.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-25	Feet below surface:	98.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-07	Feet below surface:	99.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-05-29	Feet below surface:	94.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-25	Feet below surface:	94.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-01	Feet below surface:	93.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-03	Feet below surface:	91.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-31	Feet below surface:	94.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-27	Feet below surface:	99.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-11-22	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-10-25	Feet below surface:	97.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-09-27	Feet below surface:	99.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-30	Feet below surface:	99.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-07-26	Feet below surface:	98.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-28	Feet below surface:	99.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-27	Feet below surface:	96.98
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-04-26	Feet below surface:	94.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-29	Feet below surface:	90.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-01	Feet below surface:	89.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-25	Feet below surface:	93.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-12-20	Feet below surface:	100.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-20	Feet below surface:	100.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-22	Feet below surface:	103.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-09-20	Feet below surface:	103.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-08-20	Feet below surface:	100.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-07-23	Feet below surface:	101.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-06-20	Feet below surface:	100.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-21	Feet below surface:	101.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-23	Feet below surface:	108.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-26	Feet below surface:	107.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-24	Feet below surface:	103.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-30	Feet below surface:	102.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-30	Feet below surface:	101.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-23	Feet below surface:	102.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-09-29	Feet below surface:	105.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-29	Feet below surface:	108.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-08-01	Feet below surface:	107.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-07-01	Feet below surface:	106.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-28	Feet below surface:	102.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-23	Feet below surface:	104.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-29	Feet below surface:	103.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-29	Feet below surface:	100.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-05	Feet below surface:	100.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-26	Feet below surface:	104.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-10	Feet below surface:	103.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-12-03	Feet below surface:	103.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	106.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-09-30	Feet below surface:	108.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-23	Feet below surface:	108.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-13	Feet below surface:	107.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-08	Feet below surface:	109.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-28	Feet below surface:	107.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-04-06	Feet below surface:	106.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-24	Feet below surface:	108.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-25	Feet below surface:	107.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-04	Feet below surface:	105.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-30	Feet below surface:	104.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-29	Feet below surface:	110.78
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-09-23	Feet below surface:	108.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-24	Feet below surface:	110.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-03	Feet below surface:	108.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-22	Feet below surface:	106.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	107.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-29	Feet below surface:	109.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-25	Feet below surface:	109.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-03-03	Feet below surface:	108.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-20	Feet below surface:	110.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-12-23	Feet below surface:	110.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-11-26	Feet below surface:	108.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-10-21	Feet below surface:	109.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-09-23	Feet below surface:	117.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-20	Feet below surface:	116.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-07-22	Feet below surface:	112.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-06-20	Feet below surface:	105.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-20	Feet below surface:	107.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-18	Feet below surface:	110.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-21	Feet below surface:	109.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-02-25	Feet below surface:	109.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-21	Feet below surface:	111.38
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1979-12-20	Feet below surface:	111.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-26	Feet below surface:	110.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-09-27	Feet below surface:	112.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-08-24	Feet below surface:	114.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-07-26	Feet below surface:	112.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-06-18	Feet below surface:	116.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-18	Feet below surface:	110.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-25	Feet below surface:	111.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-20	Feet below surface:	119.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-18	Feet below surface:	114.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-21	Feet below surface:	121.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-11-28	Feet below surface:	116.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-10-20	Feet below surface:	115.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-09-20	Feet below surface:	115.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-23	Feet below surface:	118.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-07-19	Feet below surface:	117.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-06-21	Feet below surface:	115.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-05-17	Feet below surface:	115.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-26	Feet below surface:	115.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-22	Feet below surface:	114.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-22	Feet below surface:	112.38
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1978-01-18	Feet below surface:	116.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-12-28	Feet below surface:	117.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-16	Feet below surface:	122.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-09-21	Feet below surface:	120.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-08-10	Feet below surface:	123.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-07-13	Feet below surface:	124.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-06-08	Feet below surface:	122.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-05-18	Feet below surface:	119.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-04-20	Feet below surface:	120.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-15	Feet below surface:	115.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-02-16	Feet below surface:	117.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-01-19	Feet below surface:	116.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-22	Feet below surface:	117.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-11-17	Feet below surface:	118.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-20	Feet below surface:	129.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-22	Feet below surface:	121.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-25	Feet below surface:	122.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-21	Feet below surface:	122.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-23	Feet below surface:	122.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-19	Feet below surface:	123.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-21	Feet below surface:	123.48
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-03-17	Feet below surface:	122.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-18	Feet below surface:	121.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-21	Feet below surface:	120.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-17	Feet below surface:	119.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-19	Feet below surface:	121.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	124.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-17	Feet below surface:	125.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-20	Feet below surface:	124.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-29	Feet below surface:	124.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-18	Feet below surface:	118.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-21	Feet below surface:	114.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-23	Feet below surface:	118.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-25	Feet below surface:	114.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-19	Feet below surface:	115.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-20	Feet below surface:	119.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-22	Feet below surface:	121.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-18	Feet below surface:	122.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-20	Feet below surface:	123.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	121.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-18	Feet below surface:	123.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-21	Feet below surface:	124.78
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-07-19	Feet below surface:	123.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-06-19	Feet below surface:	122.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-22	Feet below surface:	122.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-19	Feet below surface:	119.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-20	Feet below surface:	116.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-20	Feet below surface:	119.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-23	Feet below surface:	117.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-12-19	Feet below surface:	122.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	121.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	125.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-19	Feet below surface:	126.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-22	Feet below surface:	129.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-18	Feet below surface:	128.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-20	Feet below surface:	127.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-23	Feet below surface:	125.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-25	Feet below surface:	123.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-21	Feet below surface:	120.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-21	Feet below surface:	119.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-24	Feet below surface:	120.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-12-21	Feet below surface:	121.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-22	Feet below surface:	121.03
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-10-18	Feet below surface:	126.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-09-20	Feet below surface:	128.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-08-23	Feet below surface:	130.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-07-21	Feet below surface:	127.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-21	Feet below surface:	126.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-24	Feet below surface:	124.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-04-26	Feet below surface:	123.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-22	Feet below surface:	121.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-02-28	Feet below surface:	123.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-26	Feet below surface:	123.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-12-29	Feet below surface:	122.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-11-17	Feet below surface:	122.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-10-27	Feet below surface:	123.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-09-22	Feet below surface:	122.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-08-25	Feet below surface:	128.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-07-21	Feet below surface:	125.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-06-23	Feet below surface:	119.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-05-19	Feet below surface:	121.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-04-21	Feet below surface:	121.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-03-24	Feet below surface:	119.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-02-24	Feet below surface:	115.38
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1971-01-20	Feet below surface:	119.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-12-28	Feet below surface:	116.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-11-23	Feet below surface:	117.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-26	Feet below surface:	119.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-09-21	Feet below surface:	124.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-08-24	Feet below surface:	123.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-27	Feet below surface:	125.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-22	Feet below surface:	123.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-25	Feet below surface:	123.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-20	Feet below surface:	122.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-23	Feet below surface:	120.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-02-23	Feet below surface:	120.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-26	Feet below surface:	123.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-12-22	Feet below surface:	123.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-11-24	Feet below surface:	123.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-10-27	Feet below surface:	123.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-09-22	Feet below surface:	125.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-08-25	Feet below surface:	124.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-07-28	Feet below surface:	126.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-06-23	Feet below surface:	125.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-05-26	Feet below surface:	124.53
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-04-21	Feet below surface:	119.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-24	Feet below surface:	119.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-02-24	Feet below surface:	118.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-20	Feet below surface:	117.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-12-16	Feet below surface:	119.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-11-25	Feet below surface:	117.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-10-21	Feet below surface:	118.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-09-23	Feet below surface:	121.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-19	Feet below surface:	124.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-07-22	Feet below surface:	125.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-06-24	Feet below surface:	126.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-05-20	Feet below surface:	121.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-04-22	Feet below surface:	119.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-25	Feet below surface:	115.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-02-19	Feet below surface:	115.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-01-22	Feet below surface:	120.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-12-26	Feet below surface:	120.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-11-27	Feet below surface:	119.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-30	Feet below surface:	118.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-09-25	Feet below surface:	118.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-08-28	Feet below surface:	121.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1967-07-24	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-26	Feet below surface:	119.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-29	Feet below surface:	120.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-04-24	Feet below surface:	120.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-27	Feet below surface:	119.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-20	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-01-23	Feet below surface:	117.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-12-26	Feet below surface:	118.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-11-28	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-24	Feet below surface:	119.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-26	Feet below surface:	118.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-22	Feet below surface:	118.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-07-25	Feet below surface:	118.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-30	Feet below surface:	113.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-30	Feet below surface:	117.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-04-25	Feet below surface:	118.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-28	Feet below surface:	117.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-28	Feet below surface:	115.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-31	Feet below surface:	114.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-27	Feet below surface:	114.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-29	Feet below surface:	117.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-10-25	Feet below surface:	120.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-09-27	Feet below surface:	121.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-08-30	Feet below surface:	124.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-07-27	Feet below surface:	122.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-28	Feet below surface:	119.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-24	Feet below surface:	118.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-26	Feet below surface:	116.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-29	Feet below surface:	116.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-22	Feet below surface:	117.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-25	Feet below surface:	112.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-12-30	Feet below surface:	109.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-30	Feet below surface:	111.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-26	Feet below surface:	112.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-28	Feet below surface:	117.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-31	Feet below surface:	118.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-07-27	Feet below surface:	120.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-29	Feet below surface:	117.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-25	Feet below surface:	116.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-27	Feet below surface:	110.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-30	Feet below surface:	108.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-02-24	Feet below surface:	104.75
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1964-01-27	Feet below surface:	111.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-12-30	Feet below surface:	113.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-25	Feet below surface:	111.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-28	Feet below surface:	113.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-23	Feet below surface:	115.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-26	Feet below surface:	116.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-07-29	Feet below surface:	115.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-24	Feet below surface:	112.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-27	Feet below surface:	110.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-29	Feet below surface:	110.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-25	Feet below surface:	112.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-25	Feet below surface:	109.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-28	Feet below surface:	107.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-12-24	Feet below surface:	111.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-26	Feet below surface:	113.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-29	Feet below surface:	115.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-24	Feet below surface:	117.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-08-27	Feet below surface:	119.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-07-30	Feet below surface:	118.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-25	Feet below surface:	114.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-28	Feet below surface:	118.26
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1962-04-23	Feet below surface:	117.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-26	Feet below surface:	111.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-26	Feet below surface:	111.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-29	Feet below surface:	107.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-12-25	Feet below surface:	112.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-27	Feet below surface:	115.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-30	Feet below surface:	116.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-25	Feet below surface:	122.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-28	Feet below surface:	122.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-31	Feet below surface:	121.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-26	Feet below surface:	120.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-29	Feet below surface:	121.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-24	Feet below surface:	119.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-27	Feet below surface:	114.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-27	Feet below surface:	115.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-30	Feet below surface:	110.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-23	Feet below surface:	112.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-16	Feet below surface:	112.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-09	Feet below surface:	110.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-02	Feet below surface:	109.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-26	Feet below surface:	109.88
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-12-19	Feet below surface:	108.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-12	Feet below surface:	108.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-12-05	Feet below surface:	108.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-28	Feet below surface:	106.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-21	Feet below surface:	107.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-14	Feet below surface:	111.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-07	Feet below surface:	112.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-31	Feet below surface:	114.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-24	Feet below surface:	113.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-17	Feet below surface:	115.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-10	Feet below surface:	116.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-10-03	Feet below surface:	116.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-26	Feet below surface:	117.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-19	Feet below surface:	117.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-12	Feet below surface:	116.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-05	Feet below surface:	115.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-29	Feet below surface:	116.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-22	Feet below surface:	116.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-15	Feet below surface:	116.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-08	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-08-01	Feet below surface:	116.97
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-07-25	Feet below surface:	117.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-18	Feet below surface:	115.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-11	Feet below surface:	114.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-04	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-27	Feet below surface:	115.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-20	Feet below surface:	114.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-13	Feet below surface:	115.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-06-06	Feet below surface:	114.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-30	Feet below surface:	115.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-23	Feet below surface:	114.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-16	Feet below surface:	112.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-09	Feet below surface:	111.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-05-02	Feet below surface:	108.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-25	Feet below surface:	107.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-18	Feet below surface:	107.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-11	Feet below surface:	106.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-04-04	Feet below surface:	106.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-28	Feet below surface:	105.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-21	Feet below surface:	105.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-14	Feet below surface:	105.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-07	Feet below surface:	105.32
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1960-02-29	Feet below surface:	105.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-22	Feet below surface:	107.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-15	Feet below surface:	102.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-08	Feet below surface:	103.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-01	Feet below surface:	103.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-25	Feet below surface:	104.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-11	Feet below surface:	107.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-04	Feet below surface:	108.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-28	Feet below surface:	108.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-21	Feet below surface:	111.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-14	Feet below surface:	111.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-07	Feet below surface:	111.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-30	Feet below surface:	111.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-23	Feet below surface:	111.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-16	Feet below surface:	111.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-09	Feet below surface:	111.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-11-02	Feet below surface:	111.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-26	Feet below surface:	112.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-19	Feet below surface:	113.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-12	Feet below surface:	114.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-05	Feet below surface:	115.55
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-09-28	Feet below surface:	117.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-21	Feet below surface:	117.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-14	Feet below surface:	119.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-09-07	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-31	Feet below surface:	119.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-24	Feet below surface:	120.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-17	Feet below surface:	119.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-10	Feet below surface:	119.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-03	Feet below surface:	119.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-27	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-20	Feet below surface:	117.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-13	Feet below surface:	118.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-07-06	Feet below surface:	116.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-29	Feet below surface:	116.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-22	Feet below surface:	114.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-15	Feet below surface:	113.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-08	Feet below surface:	112.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-01	Feet below surface:	111.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-25	Feet below surface:	110.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-18	Feet below surface:	109.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-11	Feet below surface:	109.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-05-04	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-27	Feet below surface:	107.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-20	Feet below surface:	107.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-13	Feet below surface:	106.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-06	Feet below surface:	105.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-30	Feet below surface:	104.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-23	Feet below surface:	103.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-16	Feet below surface:	99.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-09	Feet below surface:	99.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-02	Feet below surface:	99.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-23	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-16	Feet below surface:	99.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-09	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-02-02	Feet below surface:	103.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-26	Feet below surface:	103.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-19	Feet below surface:	104.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-12	Feet below surface:	104.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-05	Feet below surface:	105.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-29	Feet below surface:	107.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-22	Feet below surface:	109.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-15	Feet below surface:	111.35
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-12-08	Feet below surface:	109.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-01	Feet below surface:	110.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-24	Feet below surface:	113.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-17	Feet below surface:	113.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-10	Feet below surface:	113.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-03	Feet below surface:	114.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-27	Feet below surface:	112.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-20	Feet below surface:	115.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-13	Feet below surface:	114.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-06	Feet below surface:	116.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-29	Feet below surface:	115.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-22	Feet below surface:	115.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-15	Feet below surface:	115.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-08	Feet below surface:	114.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-01	Feet below surface:	114.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-25	Feet below surface:	115.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-18	Feet below surface:	115.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-11	Feet below surface:	116.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-04	Feet below surface:	116.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-28	Feet below surface:	116.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-21	Feet below surface:	116.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-07-14	Feet below surface:	115.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-07	Feet below surface:	114.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-30	Feet below surface:	116.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-23	Feet below surface:	115.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-16	Feet below surface:	114.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-09	Feet below surface:	113.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-06-02	Feet below surface:	110.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-26	Feet below surface:	110.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-19	Feet below surface:	108.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-12	Feet below surface:	109.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-05-02	Feet below surface:	111.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-28	Feet below surface:	111.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-21	Feet below surface:	108.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-14	Feet below surface:	105.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-07	Feet below surface:	104.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-04-01	Feet below surface:	103.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-31	Feet below surface:	103.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-24	Feet below surface:	103.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-17	Feet below surface:	102.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-10	Feet below surface:	101.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-03	Feet below surface:	100.35
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1958-02-24	Feet below surface:	99.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-17	Feet below surface:	100.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-10	Feet below surface:	99.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-03	Feet below surface:	97.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-27	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-20	Feet below surface:	99.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-13	Feet below surface:	98.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-06	Feet below surface:	99.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-30	Feet below surface:	99.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-23	Feet below surface:	99.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-16	Feet below surface:	101.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-09	Feet below surface:	102.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-12-02	Feet below surface:	103.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-25	Feet below surface:	105.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-18	Feet below surface:	104.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-11	Feet below surface:	105.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-11-04	Feet below surface:	107.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-28	Feet below surface:	109.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-21	Feet below surface:	109.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-14	Feet below surface:	110.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-10-07	Feet below surface:	113.22
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-09-30	Feet below surface:	115.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-23	Feet below surface:	116.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-16	Feet below surface:	117.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-09	Feet below surface:	118.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-09-02	Feet below surface:	117.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-26	Feet below surface:	118.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-19	Feet below surface:	118.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-12	Feet below surface:	115.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-08-05	Feet below surface:	115.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-29	Feet below surface:	113.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-22	Feet below surface:	113.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-15	Feet below surface:	113.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-08	Feet below surface:	112.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-01	Feet below surface:	114.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-24	Feet below surface:	116.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-17	Feet below surface:	111.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-10	Feet below surface:	110.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-06-03	Feet below surface:	110.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-27	Feet below surface:	109.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-20	Feet below surface:	106.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-05-13	Feet below surface:	105.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-05-06	Feet below surface:	105.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-29	Feet below surface:	102.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-22	Feet below surface:	101.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-15	Feet below surface:	103.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-08	Feet below surface:	106.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-04-01	Feet below surface:	101.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-25	Feet below surface:	100.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-18	Feet below surface:	100.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-11	Feet below surface:	100.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-03-04	Feet below surface:	99.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-25	Feet below surface:	101.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-18	Feet below surface:	101.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-11	Feet below surface:	103.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-02-04	Feet below surface:	103.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-28	Feet below surface:	102.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-21	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-14	Feet below surface:	101.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-07	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-31	Feet below surface:	106.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-24	Feet below surface:	107.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-17	Feet below surface:	107.15
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-12-10	Feet below surface:	109.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-03	Feet below surface:	110.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-26	Feet below surface:	112.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-19	Feet below surface:	112.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-12	Feet below surface:	116.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-11-05	Feet below surface:	112.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-29	Feet below surface:	113.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-22	Feet below surface:	113.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-15	Feet below surface:	115.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-08	Feet below surface:	114.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-01	Feet below surface:	116.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-24	Feet below surface:	116.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-17	Feet below surface:	118.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-10	Feet below surface:	118.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-03	Feet below surface:	118.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-27	Feet below surface:	118.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-20	Feet below surface:	118.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-13	Feet below surface:	116.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-06	Feet below surface:	116.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-30	Feet below surface:	115.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-23	Feet below surface:	114.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-07-16	Feet below surface:	114.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-09	Feet below surface:	114.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-02	Feet below surface:	116.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-25	Feet below surface:	114.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-18	Feet below surface:	115.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-11	Feet below surface:	112.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-04	Feet below surface:	111.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-28	Feet below surface:	111.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-21	Feet below surface:	110.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-14	Feet below surface:	107.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-07	Feet below surface:	104.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-30	Feet below surface:	102.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-23	Feet below surface:	102.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-16	Feet below surface:	103.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-09	Feet below surface:	106.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-04-02	Feet below surface:	106.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-26	Feet below surface:	105.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-19	Feet below surface:	104.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-12	Feet below surface:	102.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-05	Feet below surface:	101.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-27	Feet below surface:	102.85
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1956-02-20	Feet below surface:	102.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-13	Feet below surface:	103.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-06	Feet below surface:	103.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-30	Feet below surface:	104.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-23	Feet below surface:	106.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-16	Feet below surface:	106.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-09	Feet below surface:	105.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-02	Feet below surface:	106.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-26	Feet below surface:	106.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-19	Feet below surface:	107.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-12	Feet below surface:	107.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-12-05	Feet below surface:	108.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-28	Feet below surface:	107.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-21	Feet below surface:	108.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-14	Feet below surface:	111.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-07	Feet below surface:	112.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-31	Feet below surface:	112.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-24	Feet below surface:	113.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-17	Feet below surface:	113.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-10	Feet below surface:	113.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-03	Feet below surface:	112.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1955-09-26	Feet below surface:	112.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-19	Feet below surface:	114.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-12	Feet below surface:	116.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-05	Feet below surface:	116.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-29	Feet below surface:	114.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-22	Feet below surface:	113.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-15	Feet below surface:	115.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-08	Feet below surface:	115.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-01	Feet below surface:	115.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-25	Feet below surface:	116.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-18	Feet below surface:	116.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-11	Feet below surface:	116.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-04	Feet below surface:	116.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-27	Feet below surface:	117.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-20	Feet below surface:	116.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-13	Feet below surface:	117.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-06	Feet below surface:	119.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-30	Feet below surface:	120.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-23	Feet below surface:	124.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-16	Feet below surface:	119.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-09	Feet below surface:	119.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1955-05-02	Feet below surface:	120.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-04-25	Feet below surface:	120.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-04-18	Feet below surface:	126.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-04-11	Feet below surface:	124.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-04-04	Feet below surface:	122.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-28	Feet below surface:	123.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-21	Feet below surface:	122.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-14	Feet below surface:	121.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-07	Feet below surface:	120.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-02-28	Feet below surface:	120.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-02-21	Feet below surface:	120.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-02-14	Feet below surface:	120.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-02-07	Feet below surface:	118.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-31	Feet below surface:	119.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-24	Feet below surface:	117.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-17	Feet below surface:	118.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-10	Feet below surface:	118.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-01-03	Feet below surface:	120.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-12-27	Feet below surface:	120.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-12-20	Feet below surface:	119.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-12-13	Feet below surface:	117.75
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-12-06	Feet below surface:	118.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-29	Feet below surface:	120.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-22	Feet below surface:	123.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-15	Feet below surface:	121.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-08	Feet below surface:	124.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-11-01	Feet below surface:	125.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-25	Feet below surface:	124.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-18	Feet below surface:	123.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-11	Feet below surface:	121.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-10-04	Feet below surface:	120.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-09-27	Feet below surface:	123.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-09-24	Feet below surface:	124.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-09-13	Feet below surface:	126.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-09-06	Feet below surface:	127.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-30	Feet below surface:	126.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-23	Feet below surface:	127.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-16	Feet below surface:	125.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-09	Feet below surface:	124.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-02	Feet below surface:	126.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-07-26	Feet below surface:	125.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-07-19	Feet below surface:	126.75
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-07-12	Feet below surface:	126.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-07-05	Feet below surface:	123.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-28	Feet below surface:	122.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-21	Feet below surface:	123.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-14	Feet below surface:	124.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-06-07	Feet below surface:	121.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-31	Feet below surface:	120.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-24	Feet below surface:	119.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-17	Feet below surface:	118.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-10	Feet below surface:	120.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-05-03	Feet below surface:	115.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-26	Feet below surface:	114.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-19	Feet below surface:	113.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-12	Feet below surface:	113.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-04-05	Feet below surface:	110.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-29	Feet below surface:	111.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-22	Feet below surface:	109.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-15	Feet below surface:	113.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-08	Feet below surface:	112.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-03-01	Feet below surface:	113.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-22	Feet below surface:	113.58
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1954-02-15	Feet below surface:	113.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-02-01	Feet below surface:	113.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-25	Feet below surface:	112.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-18	Feet below surface:	114.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-11	Feet below surface:	116.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-01-04	Feet below surface:	116.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-28	Feet below surface:	117.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-21	Feet below surface:	119.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-14	Feet below surface:	119.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-07	Feet below surface:	117.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-30	Feet below surface:	118.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-23	Feet below surface:	117.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-16	Feet below surface:	120.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-09	Feet below surface:	123.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-11-02	Feet below surface:	125.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-26	Feet below surface:	125.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-19	Feet below surface:	125.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-12	Feet below surface:	128.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-10-05	Feet below surface:	126.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-09-28	Feet below surface:	125.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-09-20	Feet below surface:	126.49
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1953-09-14	Feet below surface:	128.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-09-07	Feet below surface:	127.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-31	Feet below surface:	127.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-24	Feet below surface:	127.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-17	Feet below surface:	128.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-10	Feet below surface:	129.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-08-03	Feet below surface:	130.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-27	Feet below surface:	130.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-20	Feet below surface:	131.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-13	Feet below surface:	130.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-07-06	Feet below surface:	127.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-29	Feet below surface:	126.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-22	Feet below surface:	124.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-15	Feet below surface:	125.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-08	Feet below surface:	125.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-06-01	Feet below surface:	125.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-25	Feet below surface:	125.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-18	Feet below surface:	124.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-12	Feet below surface:	124.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-05-04	Feet below surface:	120.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-27	Feet below surface:	119.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1953-04-20	Feet below surface:	121.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-13	Feet below surface:	119.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-04-06	Feet below surface:	119.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-30	Feet below surface:	118.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-24	Feet below surface:	118.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-16	Feet below surface:	118.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-09	Feet below surface:	117.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-03-02	Feet below surface:	115.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-23	Feet below surface:	117.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-16	Feet below surface:	116.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-09	Feet below surface:	114.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-02	Feet below surface:	113.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-27	Feet below surface:	111.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-20	Feet below surface:	131.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-13	Feet below surface:	111.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-01-06	Feet below surface:	110.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-30	Feet below surface:	110.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-23	Feet below surface:	112.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-16	Feet below surface:	113.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-09	Feet below surface:	112.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-02	Feet below surface:	112.82
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1952-11-24	Feet below surface:	114.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-17	Feet below surface:	116.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-10	Feet below surface:	120.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-03	Feet below surface:	119.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-28	Feet below surface:	119.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-21	Feet below surface:	119.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-14	Feet below surface:	121.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-10-07	Feet below surface:	121.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-30	Feet below surface:	123.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-23	Feet below surface:	123.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-16	Feet below surface:	124.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-10	Feet below surface:	125.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-09-02	Feet below surface:	124.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-08-25	Feet below surface:	122.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-08-19	Feet below surface:	120.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-08-12	Feet below surface:	120.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-08-05	Feet below surface:	120.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-07-29	Feet below surface:	121.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-07-22	Feet below surface:	118.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-07-15	Feet below surface:	116.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-07-08	Feet below surface:	116.92
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1952-07-01	Feet below surface:	117.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-06-24	Feet below surface:	117.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-06-17	Feet below surface:	116.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-06-10	Feet below surface:	113.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-06-04	Feet below surface:	113.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-27	Feet below surface:	112.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-20	Feet below surface:	111.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-13	Feet below surface:	109.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-05-06	Feet below surface:	106.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-29	Feet below surface:	102.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-22	Feet below surface:	103.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-15	Feet below surface:	104.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-08	Feet below surface:	104.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-01	Feet below surface:	103.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-25	Feet below surface:	102.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-18	Feet below surface:	101.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-11	Feet below surface:	102.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-04	Feet below surface:	104.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-26	Feet below surface:	105.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-19	Feet below surface:	103.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-02-13	Feet below surface:	101.37
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1952-02-06	Feet below surface:	103.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-29	Feet below surface:	103.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-22	Feet below surface:	102.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-15	Feet below surface:	102.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-08	Feet below surface:	103.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-02	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-18	Feet below surface:	104.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-11	Feet below surface:	106.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-04	Feet below surface:	107.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-27	Feet below surface:	109.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-20	Feet below surface:	113.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-13	Feet below surface:	113.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-06	Feet below surface:	114.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-30	Feet below surface:	112.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-23	Feet below surface:	114.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-16	Feet below surface:	114.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-09	Feet below surface:	116.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-10-02	Feet below surface:	114.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-09-25	Feet below surface:	113.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-09-18	Feet below surface:	114.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-09-11	Feet below surface:	111.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1951-09-04	Feet below surface:	114.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-28	Feet below surface:	113.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-21	Feet below surface:	115.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-14	Feet below surface:	117.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-07	Feet below surface:	117.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-31	Feet below surface:	116.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-24	Feet below surface:	115.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-17	Feet below surface:	116.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-10	Feet below surface:	116.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-03	Feet below surface:	113.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-26	Feet below surface:	111.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-19	Feet below surface:	112.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-12	Feet below surface:	113.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-05	Feet below surface:	112.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-29	Feet below surface:	111.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-22	Feet below surface:	111.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-15	Feet below surface:	109.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-08	Feet below surface:	108.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-05-01	Feet below surface:	105.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-24	Feet below surface:	108.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-17	Feet below surface:	105.59
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1951-04-10	Feet below surface:	104.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-03	Feet below surface:	107.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-28	Feet below surface:	107.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-27	Feet below surface:	107.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-20	Feet below surface:	105.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-13	Feet below surface:	101.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-06	Feet below surface:	99.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-27	Feet below surface:	101.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-20	Feet below surface:	102.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-13	Feet below surface:	99.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-02	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-30	Feet below surface:	98.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-23	Feet below surface:	99.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-16	Feet below surface:	100.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-09	Feet below surface:	102.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-02	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-27	Feet below surface:	101.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-19	Feet below surface:	102.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-12	Feet below surface:	101.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-05	Feet below surface:	100.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-01	Feet below surface:	99.72
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1950-11-28	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-21	Feet below surface:	101.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-14	Feet below surface:	105.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-07	Feet below surface:	103.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-02	Feet below surface:	106.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-31	Feet below surface:	105.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-24	Feet below surface:	106.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-17	Feet below surface:	108.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-10	Feet below surface:	105.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-10-03	Feet below surface:	106.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-25	Feet below surface:	106.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-18	Feet below surface:	105.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-11	Feet below surface:	103.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-09-01	Feet below surface:	105.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-29	Feet below surface:	104.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-21	Feet below surface:	106.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-14	Feet below surface:	107.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-07	Feet below surface:	106.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-08-01	Feet below surface:	104.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-28	Feet below surface:	107.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-24	Feet below surface:	103.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1950-07-17	Feet below surface:	102.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-10	Feet below surface:	105.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-07-03	Feet below surface:	103.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-30	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-26	Feet below surface:	100.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-19	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-12	Feet below surface:	98.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-06-01	Feet below surface:	101.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-29	Feet below surface:	96.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-22	Feet below surface:	96.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-15	Feet below surface:	95.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-08	Feet below surface:	96.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-05-01	Feet below surface:	95.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-24	Feet below surface:	94.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-17	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-10	Feet below surface:	92.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-04-03	Feet below surface:	92.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-20	Feet below surface:	90.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-13	Feet below surface:	92.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-03-01	Feet below surface:	88.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-28	Feet below surface:	88.11
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1950-02-20	Feet below surface:	89.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-02-02	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-01-16	Feet below surface:	90.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-01-09	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-01-03	Feet below surface:	90.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-27	Feet below surface:	91.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-19	Feet below surface:	93.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-12	Feet below surface:	94.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-30	Feet below surface:	95.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-21	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-11	Feet below surface:	96.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-07	Feet below surface:	100.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-28	Feet below surface:	100.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-24	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-18	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-17	Feet below surface:	99.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-10	Feet below surface:	100.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-03	Feet below surface:	102.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-28	Feet below surface:	102.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-19	Feet below surface:	103.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-12	Feet below surface:	102.30
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1949-08-31	Feet below surface:	105.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-22	Feet below surface:	103.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-15	Feet below surface:	103.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-08	Feet below surface:	104.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-29	Feet below surface:	104.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-25	Feet below surface:	103.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-11	Feet below surface:	101.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-01	Feet below surface:	102.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-30	Feet below surface:	107.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-20	Feet below surface:	101.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-13	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-06	Feet below surface:	100.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-31	Feet below surface:	99.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-23	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-16	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-09	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-02	Feet below surface:	96.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-25	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-18	Feet below surface:	92.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-31	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-21	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1949-03-14	Feet below surface:	87.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-07	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-28	Feet below surface:	88.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-21	Feet below surface:	88.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-14	Feet below surface:	88.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-07	Feet below surface:	89.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-31	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-24	Feet below surface:	88.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-17	Feet below surface:	89.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-10	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-03	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-12-20	Feet below surface:	90.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-12-13	Feet below surface:	91.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-12-01	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-22	Feet below surface:	90.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-15	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-08	Feet below surface:	90.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-01	Feet below surface:	89.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-25	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-18	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-11	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1948-10-01	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-20	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-13	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-07	Feet below surface:	97.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-01	Feet below surface:	100.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-08-23	Feet below surface:	101.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-08-16	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-08-09	Feet below surface:	98.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-08-02	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-26	Feet below surface:	99.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-19	Feet below surface:	98.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-12	Feet below surface:	99.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-01	Feet below surface:	99.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-21	Feet below surface:	97.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-14	Feet below surface:	96.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-02	Feet below surface:	95.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-24	Feet below surface:	97.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-17	Feet below surface:	96.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-10	Feet below surface:	94.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-03	Feet below surface:	94.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-26	Feet below surface:	95.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1948-04-19	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-12	Feet below surface:	90.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-01	Feet below surface:	88.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-03-22	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-03-15	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-03-08	Feet below surface:	89.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-03-01	Feet below surface:	89.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-24	Feet below surface:	88.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-16	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-09	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-02	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-26	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-19	Feet below surface:	92.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-12	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-01-05	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-29	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-22	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-15	Feet below surface:	87.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-08	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-01	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-24	Feet below surface:	90.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1947-11-17	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-10	Feet below surface:	95.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-03	Feet below surface:	92.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-27	Feet below surface:	94.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-20	Feet below surface:	93.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-14	Feet below surface:	94.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-01	Feet below surface:	98.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-22	Feet below surface:	98.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-15	Feet below surface:	98.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-08	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-02	Feet below surface:	100.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-08-25	Feet below surface:	100.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-08-18	Feet below surface:	100.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-08-11	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-08-01	Feet below surface:	100.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-21	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-14	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-07	Feet below surface:	94.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-01	Feet below surface:	96.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-23	Feet below surface:	96.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-17	Feet below surface:	94.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1947-06-10	Feet below surface:	93.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-02	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-26	Feet below surface:	92.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-19	Feet below surface:	100.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-12	Feet below surface:	92.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-01	Feet below surface:	90.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-21	Feet below surface:	91.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-14	Feet below surface:	91.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-07	Feet below surface:	87.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-24	Feet below surface:	82.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-17	Feet below surface:	83.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-10	Feet below surface:	82.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-28	Feet below surface:	82.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-24	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-17	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-10	Feet below surface:	81.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-03	Feet below surface:	82.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-28	Feet below surface:	80.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-20	Feet below surface:	79.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-13	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-02	Feet below surface:	80.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-12-23	Feet below surface:	81.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-16	Feet below surface:	81.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-09	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-02	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-25	Feet below surface:	83.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-18	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-12	Feet below surface:	84.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-01	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-21	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-14	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-07	Feet below surface:	92.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-01	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-23	Feet below surface:	95.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-09	Feet below surface:	97.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-03	Feet below surface:	98.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-19	Feet below surface:	101.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-12	Feet below surface:	93.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-01	Feet below surface:	97.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-07-26	Feet below surface:	94.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-07-15	Feet below surface:	93.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-07-09	Feet below surface:	96.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-07-01	Feet below surface:	93.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-06-24	Feet below surface:	92.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-06-17	Feet below surface:	95.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-06-10	Feet below surface:	93.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-06-01	Feet below surface:	90.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-05-20	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-05-15	Feet below surface:	86.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-05-01	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-22	Feet below surface:	83.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-15	Feet below surface:	82.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-08	Feet below surface:	80.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-04-01	Feet below surface:	86.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-23	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-18	Feet below surface:	88.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-09	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-03-01	Feet below surface:	84.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-02-19	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-02-11	Feet below surface:	80.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-02-01	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-01-21	Feet below surface:	82.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-01-14	Feet below surface:	80.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-01-07	Feet below surface:	80.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-31	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-24	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-07	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-12-01	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-23	Feet below surface:	89.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-17	Feet below surface:	89.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-08	Feet below surface:	90.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-11-01	Feet below surface:	90.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-22	Feet below surface:	89.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-15	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-06	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-10-01	Feet below surface:	93.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-09-22	Feet below surface:	92.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-09-14	Feet below surface:	93.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-09-08	Feet below surface:	93.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-31	Feet below surface:	92.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-25	Feet below surface:	92.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-18	Feet below surface:	102.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-11	Feet below surface:	102.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-08-01	Feet below surface:	97.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1945-07-21	Feet below surface:	95.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-07-14	Feet below surface:	93.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-07-07	Feet below surface:	93.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-30	Feet below surface:	93.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-23	Feet below surface:	91.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-16	Feet below surface:	90.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-09	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-06-01	Feet below surface:	90.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-05-26	Feet below surface:	89.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-05-19	Feet below surface:	86.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-05-12	Feet below surface:	89.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-05-01	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-21	Feet below surface:	84.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-14	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-07	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-04-02	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-03-24	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-03-17	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-03-10	Feet below surface:	84.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-03-01	Feet below surface:	84.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-02-17	Feet below surface:	88.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1945-01-20	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-13	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-06	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1945-01-02	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-12-23	Feet below surface:	85.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-12-16	Feet below surface:	85.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-12-09	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-25	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-18	Feet below surface:	82.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-10	Feet below surface:	83.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-11-01	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-10-21	Feet below surface:	88.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-10-14	Feet below surface:	86.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-10-07	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-10-02	Feet below surface:	87.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-09-23	Feet below surface:	84.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-09-16	Feet below surface:	83.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-09-08	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-09-01	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-08-26	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-08-19	Feet below surface:	85.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1944-08-12	Feet below surface:	83.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-31	Feet below surface:	80.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-22	Feet below surface:	86.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-15	Feet below surface:	83.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-08	Feet below surface:	87.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-07-01	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-06-24	Feet below surface:	87.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-06-17	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-06-10	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-31	Feet below surface:	84.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-20	Feet below surface:	80.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-13	Feet below surface:	79.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-05-06	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-29	Feet below surface:	77.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-22	Feet below surface:	78.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-15	Feet below surface:	78.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-08	Feet below surface:	76.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-04-01	Feet below surface:	76.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-03-25	Feet below surface:	74.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-03-18	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-03-11	Feet below surface:	72.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1944-03-01	Feet below surface:	71.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-02-19	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-02-11	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-31	Feet below surface:	71.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-22	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-15	Feet below surface:	69.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1944-01-08	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-31	Feet below surface:	69.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-24	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-18	Feet below surface:	73.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-11	Feet below surface:	73.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-01	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-20	Feet below surface:	80.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-13	Feet below surface:	78.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-11-06	Feet below surface:	84.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-29	Feet below surface:	82.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-23	Feet below surface:	84.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-16	Feet below surface:	79.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-08	Feet below surface:	88.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-01	Feet below surface:	87.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-09-25	Feet below surface:	87.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1943-09-18	Feet below surface:	85.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-09-11	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-09-01	Feet below surface:	81.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-21	Feet below surface:	80.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-14	Feet below surface:	80.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-07	Feet below surface:	79.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-08-01	Feet below surface:	79.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-07-24	Feet below surface:	78.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-07-17	Feet below surface:	77.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-07-10	Feet below surface:	76.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-30	Feet below surface:	78.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-19	Feet below surface:	76.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-12	Feet below surface:	74.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-06-01	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-05-22	Feet below surface:	73.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-05-15	Feet below surface:	72.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-05-08	Feet below surface:	69.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-30	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-24	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-04-17	Feet below surface:	65.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-31	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1943-03-20	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-13	Feet below surface:	62.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-06	Feet below surface:	61.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-03-01	Feet below surface:	63.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-02-20	Feet below surface:	63.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-02-13	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-01-29	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-01-16	Feet below surface:	64.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-01-09	Feet below surface:	64.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-21	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-12	Feet below surface:	64.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-01	Feet below surface:	65.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-11-21	Feet below surface:	64.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-11-07	Feet below surface:	64.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-11-02	Feet below surface:	64.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-10-24	Feet below surface:	67.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-10-17	Feet below surface:	66.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-10-10	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-09-30	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-09-19	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-09-12	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-09-01	Feet below surface:	68.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-22	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-15	Feet below surface:	70.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-08	Feet below surface:	70.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-08-01	Feet below surface:	69.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-25	Feet below surface:	69.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-17	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-11	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-07-01	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-06-21	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-06-13	Feet below surface:	68.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-06-06	Feet below surface:	67.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-06-01	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-23	Feet below surface:	65.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-16	Feet below surface:	62.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-09	Feet below surface:	61.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-05-01	Feet below surface:	59.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-25	Feet below surface:	57.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-18	Feet below surface:	58.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-11	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-03-31	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1942-03-21	Feet below surface:	57.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-03-14	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-03-07	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-28	Feet below surface:	58.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-21	Feet below surface:	61.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-14	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-02-07	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-01-24	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-01-17	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-01-10	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-20	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-13	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-11-15	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-11-08	Feet below surface:	65.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-31	Feet below surface:	73.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-25	Feet below surface:	74.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-18	Feet below surface:	75.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-11	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-10-01	Feet below surface:	73.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-09-20	Feet below surface:	69.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-09-13	Feet below surface:	76.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-09-02	Feet below surface:	77.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-08-23	Feet below surface:	75.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-08-09	Feet below surface:	68.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-08-01	Feet below surface:	65.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-26	Feet below surface:	64.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-19	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-12	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-07	Feet below surface:	67.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-07-01	Feet below surface:	67.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-21	Feet below surface:	64.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-14	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-07	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-06-02	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-05-24	Feet below surface:	61.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-05-17	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-05-10	Feet below surface:	60.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-30	Feet below surface:	60.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-19	Feet below surface:	56.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-12	Feet below surface:	55.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-03-31	Feet below surface:	56.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-03-22	Feet below surface:	56.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1941-03-15	Feet below surface:	54.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-03-08	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-02-28	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-02-21	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-02-15	Feet below surface:	55.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-02-08	Feet below surface:	56.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-31	Feet below surface:	56.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-25	Feet below surface:	56.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-18	Feet below surface:	56.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-11	Feet below surface:	57.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-01-02	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-21	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-07	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-12-02	Feet below surface:	62.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-23	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-16	Feet below surface:	64.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-09	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-01	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-10-26	Feet below surface:	66.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-10-19	Feet below surface:	66.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-10-11	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-10-01	Feet below surface:	68.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-09-21	Feet below surface:	68.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-09-14	Feet below surface:	73.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-09-07	Feet below surface:	75.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-30	Feet below surface:	77.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-24	Feet below surface:	75.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-17	Feet below surface:	77.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-10	Feet below surface:	73.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-08-01	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-20	Feet below surface:	72.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-13	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-06	Feet below surface:	69.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-07-01	Feet below surface:	71.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-22	Feet below surface:	72.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-15	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-06-08	Feet below surface:	70.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-31	Feet below surface:	69.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-24	Feet below surface:	66.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-18	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-11	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-05-01	Feet below surface:	60.50
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1940-04-20	Feet below surface:	61.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-13	Feet below surface:	61.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-06	Feet below surface:	56.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-04-01	Feet below surface:	57.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-23	Feet below surface:	59.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-16	Feet below surface:	60.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-09	Feet below surface:	57.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-01	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-02-23	Feet below surface:	56.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-02-16	Feet below surface:	55.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-02-09	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-30	Feet below surface:	56.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-19	Feet below surface:	56.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-12	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-06	Feet below surface:	58.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-01-02	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-23	Feet below surface:	63.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-15	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-08	Feet below surface:	63.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-12-01	Feet below surface:	64.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-25	Feet below surface:	63.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-11-18	Feet below surface:	64.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-13	Feet below surface:	61.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-01	Feet below surface:	63.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-21	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-14	Feet below surface:	62.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-10-07	Feet below surface:	61.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-30	Feet below surface:	64.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-23	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-16	Feet below surface:	65.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-11	Feet below surface:	67.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-09-01	Feet below surface:	72.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-26	Feet below surface:	71.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-19	Feet below surface:	71.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-18	Feet below surface:	68.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-12	Feet below surface:	72.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-08-05	Feet below surface:	72.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-31	Feet below surface:	72.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-22	Feet below surface:	71.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-15	Feet below surface:	68.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-07-08	Feet below surface:	66.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-06-30	Feet below surface:	68.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-06-17	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-06-10	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-06-09	Feet below surface:	65.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-31	Feet below surface:	65.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-20	Feet below surface:	62.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-13	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-09	Feet below surface:	60.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-06	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-05-01	Feet below surface:	57.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-22	Feet below surface:	57.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-15	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-04-08	Feet below surface:	56.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-31	Feet below surface:	54.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-25	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-18	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-11	Feet below surface:	55.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-07	Feet below surface:	56.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-03-01	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-02-20	Feet below surface:	53.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-02-11	Feet below surface:	54.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-02-06	Feet below surface:	52.93
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1939-01-31	Feet below surface:	53.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-21	Feet below surface:	53.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-14	Feet below surface:	54.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-13	Feet below surface:	53.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-01-07	Feet below surface:	54.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-31	Feet below surface:	54.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-24	Feet below surface:	54.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-17	Feet below surface:	58.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-10	Feet below surface:	59.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-12-01	Feet below surface:	59.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-19	Feet below surface:	60.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-14	Feet below surface:	62.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-12	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-11-05	Feet below surface:	60.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-31	Feet below surface:	62.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-25	Feet below surface:	66.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-22	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-15	Feet below surface:	65.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-08	Feet below surface:	66.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-10-01	Feet below surface:	65.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-26	Feet below surface:	63.94
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1938-09-24	Feet below surface:	64.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-17	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-09-12	Feet below surface:	66.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-31	Feet below surface:	65.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-22	Feet below surface:	64.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-15	Feet below surface:	65.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-08	Feet below surface:	64.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-03	Feet below surface:	64.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-08-01	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-07-25	Feet below surface:	63.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-07-18	Feet below surface:	64.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-07-11	Feet below surface:	63.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-30	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-20	Feet below surface:	61.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-13	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-07	Feet below surface:	60.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-06-01	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-05-23	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-05-16	Feet below surface:	59.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-05-09	Feet below surface:	58.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-05-06	Feet below surface:	57.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1938-05-02	Feet below surface:	56.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-25	Feet below surface:	58.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-18	Feet below surface:	59.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-11	Feet below surface:	59.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-04-01	Feet below surface:	58.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-03-28	Feet below surface:	56.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-03-14	Feet below surface:	54.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-03-07	Feet below surface:	53.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-21	Feet below surface:	53.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-14	Feet below surface:	53.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-07	Feet below surface:	53.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-02-02	Feet below surface:	53.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-30	Feet below surface:	53.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-25	Feet below surface:	53.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-24	Feet below surface:	53.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-17	Feet below surface:	55.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-10	Feet below surface:	54.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1938-01-03	Feet below surface:	54.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-27	Feet below surface:	54.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-20	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-12-13	Feet below surface:	56.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1937-12-06	Feet below surface:	57.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-30	Feet below surface:	57.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-22	Feet below surface:	58.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-15	Feet below surface:	60.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-12	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-08	Feet below surface:	62.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-01	Feet below surface:	61.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-25	Feet below surface:	62.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-22	Feet below surface:	63.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-18	Feet below surface:	64.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-10-11	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-30	Feet below surface:	66.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-20	Feet below surface:	67.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-14	Feet below surface:	68.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-13	Feet below surface:	69.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-09-07	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-31	Feet below surface:	64.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-23	Feet below surface:	67.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-20	Feet below surface:	67.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-16	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-08-09	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1937-08-02	Feet below surface:	67.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-26	Feet below surface:	67.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-19	Feet below surface:	67.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-15	Feet below surface:	67.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-07-01	Feet below surface:	66.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-06-21	Feet below surface:	65.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-06-08	Feet below surface:	63.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-06-01	Feet below surface:	62.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-05-17	Feet below surface:	63.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-05-01	Feet below surface:	61.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-06	Feet below surface:	58.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-04-01	Feet below surface:	56.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-03-16	Feet below surface:	57.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-02-08	Feet below surface:	56.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-02-04	Feet below surface:	57.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-12	Feet below surface:	57.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-02	Feet below surface:	58.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-12-12	Feet below surface:	62.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-30	Feet below surface:	64.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-19	Feet below surface:	65.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-11-02	Feet below surface:	61.03
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1936-10-13	Feet below surface:	66.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-10-01	Feet below surface:	66.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-09-18	Feet below surface:	68.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-08-31	Feet below surface:	69.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-08-30	Feet below surface:	68.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-08-24	Feet below surface:	68.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-08-17	Feet below surface:	67.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-08-14	Feet below surface:	68.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-07-28	Feet below surface:	69.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-30	Feet below surface:	68.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-09	Feet below surface:	67.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-06-01	Feet below surface:	65.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-05-15	Feet below surface:	65.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-30	Feet below surface:	62.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-20	Feet below surface:	62.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-04-02	Feet below surface:	61.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-20	Feet below surface:	60.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-02	Feet below surface:	63.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-02-18	Feet below surface:	56.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-01-13	Feet below surface:	59.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-12-16	Feet below surface:	62.16
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1935-11-18	Feet below surface:	63.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-25	Feet below surface:	73.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-21	Feet below surface:	71.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-14	Feet below surface:	71.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-10-07	Feet below surface:	71.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-30	Feet below surface:	71.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-23	Feet below surface:	73.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-17	Feet below surface:	72.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-16	Feet below surface:	72.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-10	Feet below surface:	70.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-09-03	Feet below surface:	72.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-08-19	Feet below surface:	72.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-07-23	Feet below surface:	73.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-07-22	Feet below surface:	75.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-07-01	Feet below surface:	71.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-06-14	Feet below surface:	71.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-05-14	Feet below surface:	66.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-23	Feet below surface:	63.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-16	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-03-22	Feet below surface:	62.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-02-18	Feet below surface:	62.01
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1935-01-15	Feet below surface:	61.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-12-15	Feet below surface:	65.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-11-07	Feet below surface:	67.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-10-29	Feet below surface:	66.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-24	Feet below surface:	73.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-20	Feet below surface:	74.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-07-14	Feet below surface:	73.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-26	Feet below surface:	71.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-06-12	Feet below surface:	68.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-05-18	Feet below surface:	73.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-04-21	Feet below surface:	67.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-04-06	Feet below surface:	65.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-30	Feet below surface:	63.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-23	Feet below surface:	62.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-20	Feet below surface:	61.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-16	Feet below surface:	61.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-09	Feet below surface:	59.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-03-02	Feet below surface:	57.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-02-23	Feet below surface:	59.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-02-16	Feet below surface:	61.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-02-09	Feet below surface:	60.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1934-02-02	Feet below surface:	61.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-01-26	Feet below surface:	60.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-01-19	Feet below surface:	60.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1934-01-12	Feet below surface:	59.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-01-21	Feet below surface:	62.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-01-18	Feet below surface:	63.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-01-11	Feet below surface:	63.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-01-04	Feet below surface:	61.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-12-28	Feet below surface:	62.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-12-21	Feet below surface:	61.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-12-14	Feet below surface:	62.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-12-07	Feet below surface:	65.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-30	Feet below surface:	65.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-23	Feet below surface:	66.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-16	Feet below surface:	66.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-10	Feet below surface:	66.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-02	Feet below surface:	65.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-10-26	Feet below surface:	65.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-10-22	Feet below surface:	65.38
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A4
WNW
1/2 - 1 Mile
Lower

CA WELLS 5349

Seq:	5349	Prim sta c:	04S/13W-15B05 S
Frds no:	1910033005	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 16	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335000.0	Longitude:	1181300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		

A5
WNW
1/2 - 1 Mile
Lower

CA WELLS 5350

Seq:	5350	Prim sta c:	04S/13W-15B07 S
Frds no:	1910033002	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 02 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335000.0	Longitude:	1181300.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		

A6
WNW
1/2 - 1 Mile
Lower

CA WELLS 5348

Seq:	5348	Prim sta c:	04S/13W-15A11 S
Frds no:	1910033004	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 15	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latitude:	335000.0	Longitude:	1181300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		

Sample date:	07-FEB-18	Finding:	23.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	7.52
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	0.39
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		

Sample date:	07-FEB-18	Finding:	2.5
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		

Sample date:	07-FEB-18	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		

Sample date:	13-DEC-17	Finding:	1.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	08-NOV-17	Finding:	0.4
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		

Sample date:	08-NOV-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		

Sample date:	08-NOV-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

Sample date:	08-NOV-17	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-NOV-17	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	08-NOV-17	Finding:	6.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	3.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	1.2
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	23-AUG-17	Finding:	1.66
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	09-AUG-17	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	09-AUG-17	Finding:	0.41
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-17	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	09-AUG-17	Finding:	0.33
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-AUG-17	Finding:	8.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-AUG-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	09-AUG-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	09-AUG-17	Finding:	8.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JUN-17	Finding:	1.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L

Dlr:	0.		
Sample date:	03-MAY-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	03-MAY-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	0.11
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-MAY-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	03-MAY-17	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	0.37
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	15-MAR-17	Finding:	1.9
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	15-FEB-17	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	0.36
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	15-FEB-17	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-DEC-16	Finding:	111.6
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	14-DEC-16	Finding:	2.148
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-DEC-16	Finding:	63.11
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-DEC-16	Finding:	3.448
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-DEC-16	Finding:	1.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	09-NOV-16	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-NOV-16	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported

Dlr:	0.		
Sample date:	09-NOV-16	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	09-NOV-16	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	09-NOV-16	Finding:	0.38
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	21-SEP-16	Finding:	1.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	25.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	360.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	3.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	54.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	07-SEP-16	Finding:	3.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	55.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	10.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-SEP-16	Finding:	0.32
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-SEP-16	Finding:	200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	0.13
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-SEP-16	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-SEP-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	03-AUG-16	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-AUG-16	Finding:	0.19
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-AUG-16	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	03-AUG-16	Finding:	0.32
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L

Dlr:	0.		
Sample date:	11-MAY-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-MAY-16	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	11-MAY-16	Finding:	4.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	11-MAY-16	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAY-16	Finding:	0.33
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-16	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	11-MAY-16	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.18
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	03-FEB-16	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.18
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	0.37
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.18
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	7.9e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	03-FEB-16	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	8.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	03-FEB-16	Finding:	21.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-FEB-16	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	02-DEC-15	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-DEC-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	02-DEC-15	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C

Dlr:	0.		
Sample date:	04-NOV-15	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	04-NOV-15	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	8.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	04-NOV-15	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	04-NOV-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	04-NOV-15	Finding:	0.32
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	19-AUG-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	8.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-AUG-15	Finding:	0.36
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		

Sample date:	19-AUG-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-JUL-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-JUL-15	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUN-15	Finding:	26.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	09-JUN-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	26.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	7.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-MAY-15	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	06-MAY-15	Finding:	0.36
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	06-MAY-15	Finding:	15.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	06-MAY-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	24.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	08-APR-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-APR-15	Finding:	24.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	25-MAR-15	Finding:	1.8
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-MAR-15	Finding:	9.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	25-MAR-15	Finding:	6.88
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	11-MAR-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAR-15	Finding:	24.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-FEB-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-FEB-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-FEB-15	Finding:	1.1
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	11-FEB-15	Finding:	26.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-FEB-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-FEB-15	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	11-FEB-15	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	11-FEB-15	Finding:	0.34
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	11-FEB-15	Finding:	6.9e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-FEB-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	28-JAN-15	Finding:	24.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	28-JAN-15	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JAN-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-JAN-15	Finding:	22.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-DEC-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-DEC-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	12-NOV-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	6.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	12-NOV-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-NOV-14	Finding:	0.34
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-14	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-14	Finding:	26.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-OCT-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-OCT-14	Finding:	26.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	03-SEP-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-AUG-14	Finding:	8.39
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	8.2e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-AUG-14	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	06-AUG-14	Finding:	25.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		

Sample date:	06-AUG-14	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-14	Finding:	0.39
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JUL-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUN-14	Finding:	6.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	1.2
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	14-MAY-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	0.33
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	8.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	8.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	0.4
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-MAY-14	Finding:	8.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-MAY-14	Finding:	8.5
Chemical:	PH, FIELD	Report units:	Not Reported

Dlr:	0.		
Sample date:	07-MAY-14	Finding:	8.37
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-MAR-14	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-FEB-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	19-FEB-14	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	12-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	0.43
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	12-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-JAN-14	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	19-DEC-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	19-DEC-13	Finding:	9.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	10-DEC-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	06-NOV-13	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	06-NOV-13	Finding:	0.42
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	06-NOV-13	Finding:	7.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-NOV-13	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-OCT-13	Finding:	6.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-OCT-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-OCT-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	5.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	4.
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	19-SEP-13	Finding:	57.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	3.5
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-SEP-13	Finding:	0.33
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-SEP-13	Finding:	150.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	19-SEP-13	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	0.18
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-SEP-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	0.95
Chemical:	DICHLOROMETHANE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-SEP-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	390.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		

Sample date:	19-SEP-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	2.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	2.3
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-SEP-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	19-SEP-13	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	0.58
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	19-SEP-13	Finding:	1.8
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	19-SEP-13	Finding:	64.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-APR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-APR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-MAR-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-FEB-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-13	Finding:	0.37
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-13	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	13-FEB-13	Finding:	15.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	13-FEB-13	Finding:	7.5e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	16-JAN-13	Finding:	6.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-DEC-12	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-NOV-12	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-NOV-12	Finding:	9.3e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-NOV-12	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	14-NOV-12	Finding:	0.4
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	14-NOV-12	Finding:	1.4
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	14-NOV-12	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	24-OCT-12	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-OCT-12	Finding:	8.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-12	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-SEP-12	Finding:	5.6e-002
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-SEP-12	Finding:	25.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	05-SEP-12	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

Sample date:	08-AUG-12	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	08-AUG-12	Finding:	8.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-AUG-12	Finding:	0.38
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	06-AUG-12	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-JUL-12	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-12	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-12	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-MAY-12	Finding:	0.34
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	16-MAY-12	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	16-MAY-12	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	16-MAY-12	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	09-MAY-12	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	09-MAY-12	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-MAY-12	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dlr:	1.		
Sample date:	09-MAY-12	Finding:	15.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	09-MAY-12	Finding:	0.35
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-12	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-APR-12	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-MAR-12	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAR-12	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	21-FEB-12	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-FEB-12	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	1.3
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		
Sample date:	08-FEB-12	Finding:	0.36
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	08-FEB-12	Finding:	6.8e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-FEB-12	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	11-JAN-12	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		

A7
WNW
1/2 - 1 Mile
Lower

CA WELLS 5346

Seq:	5346	Prim sta c:	04S/13W-15A05 S
Frds no:	1910033003	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 06 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335000.0	Longitude:	1181300.0

Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		

A8
WNW
1/2 - 1 Mile
Lower

CA WELLS 5347

Seq:	5347	Prim sta c:	04S/13W-15A06 S
Frds no:	1910033001	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 01 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	335000.0	Longitude:	1181300.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		

9
East
1/2 - 1 Mile
Higher

FRDS PWS CA3600767

Epa region:	09	State:	CA
Pwsid:	CA3600767	Pwsname:	CAMP TAHQUITZ
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06071
Status:	Active	Retpopsrvd:	100
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	Michael Dermody	Contactorgname:	Camp Tahquitz BSA
Contactphone:	9097942926	Contactaddress1:	PO Box 7338
Contactaddress2:	Not Reported	Contactcity:	Long Beach
Contactstate:	CA	Contactzip:	90807
Pwsactivitycode:	A		
PWS ID:	CA3600767	PWS type:	System Owner/Responsible Party
PWS name:	CAMP TAHQUITZ, BSA	PWS address:	Not Reported
PWS city:	LONG BEACH	PWS state:	CA
PWS zip:	908070000	PWS name:	Camp Tahquitz, BSA
PWS type code:	NC	Retail population served:	25

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contact:	Michael Dermody	Contact address:	PO Box 7338
Contact address:	Long Beach	Contact city:	CA
Contact state:	90	Contact zip:	9097942926
Contact telephone:	Not Reported		
PWS ID:	CA3600767	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00000025	System name:	CAMP TAHQUITZ
System address:	CAMP TAHQUITZ, BSA	System address:	017TH T01NR01E
System city:	BARTON FLATS	System state:	CA
System zip:	94234		
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	334942	Longitude:	1181106
Violation id:	0000002	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2000
Cmp edt:	09/30/2000		
Violation id:	0100001	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2000
Cmp edt:	12/31/2000		
Violation id:	0200001	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2001
Cmp edt:	12/31/2001		
Violation id:	1300001	Orig code:	S
State:	CA	Violation Year:	2012
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	21	Violation name:	MCL, Acute (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2012
Cmp edt:	10/31/2012		
System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	7/1/2000 0:00:00
Compliance End:	9/30/2000 0:00:00	Violation ID:	0066002
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	7/1/2000 0:00:00
Compliance End:	9/30/2000 0:00:00	Violation ID:	0066002
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00

System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	10/1/2000 0:00:00
Compliance End:	12/31/2000 0:00:00	Violation ID:	0166001
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00

System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	10/1/2000 0:00:00
Compliance End:	12/31/2000 0:00:00	Violation ID:	0166001
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported

System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	1995-01-01
Compliance End:	1995-03-31	Violation ID:	9566001
Enforcement Date:	Not Reported	Enforcement Action:	Not Reported

System Name:	CAMP TAHQUITZ, BSA	Violation Type:	23
Contaminant:	3100	Compliance Begin:	1995-10-01
Compliance End:	1995-12-31	Violation ID:	9666002
Enforcement Date:	Not Reported	Enforcement Action:	Not Reported

Violation ID:	0000001	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	0000002	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	0100001	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	0200001	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	01/31/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	1300001	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	10/25/2012
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		

Violation ID:	9700001	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	9800001	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

PWS name:	Camp Tahquitz, BSA	Population served:	25
PWS type code:	NC	Violation ID:	0000002
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2000 0:00:00	Compliance end date:	9/30/2000 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		

PWS name:	Camp Tahquitz, BSA	Population served:	25
PWS type code:	NC	Violation ID:	0100001
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	10/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement: Not Reported

Map ID
Direction
Distance

Database EDR ID Number

A1
West
0 - 1/8 Mile

OIL_GAS **CAOG13000133498**

API #:	0403722295	Well #:	8-5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Sun Exploration & Production Co.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Old	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

B2
SE
0 - 1/8 Mile

OIL_GAS **CAOG13000131322**

API #:	0403709792	Well #:	8-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Energy Resources Ltd.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

A3
NNW
0 - 1/8 Mile

OIL_GAS **CAOG13000132963**

API #:	0403713525	Well #:	9-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	02/06/1938

B4
SSE
0 - 1/8 Mile

OIL_GAS **CAOG13000131323**

API #:	0403709793	Well #:	8-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Energy Resources Ltd.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

C5
North
0 - 1/8 Mile

OIL_GAS **CAOG13000133501**

API #:	0403722512	Well #:	8-7
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	Y	SPUD Date:	08/24/1981

C6
North
0 - 1/8 Mile

OIL_GAS **CAOG13000132858**

API #:	0403706415	Well #:	8-4
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

C7
North
0 - 1/8 Mile

OIL_GAS **CAOG13000131984**

API #:	0403706496	Well #:	8-3
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	11/05/1937

B8
ESE
0 - 1/8 Mile

OIL_GAS **CAOG13000131318**

API #:	0403709788	Well #:	6-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Energy Resources Ltd.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

9
NE
0 - 1/8 Mile

OIL_GAS **CAOG13000132772**

API #:	0403711306	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Phillips Petroleum Company		
Lease Name:	Pacific Electric	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

B10
SE
0 - 1/8 Mile

OIL_GAS **CAOG13000133439**

API #:	0403725193	Well #:	2A
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

C11
North
0 - 1/8 Mile

OIL_GAS **CAOG13000131321**

API #:	0403709791	Well #:	9-3
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	10/02/1937

B12
SE
0 - 1/8 Mile

OIL_GAS **CAOG13000131319**

API #:	0403709789	Well #:	6-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Energy Resources Ltd.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

C13
North
1/8 - 1/4 Mile

OIL_GAS **CAOG13000133519**

API #:	0403700392	Well #:	9-4
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	08/27/1940

C14
NNW
1/8 - 1/4 Mile

OIL_GAS **CAOG13000133520**

API #:	0403700393	Well #:	9-6
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

C15
NNW
1/8 - 1/4 Mile

OIL_GAS **CAOG13000133541**

API #:	0403700142	Well #:	9-5
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	08/27/1940

D16
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG13000131325**

API #:	0403709795	Well #:	5-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pacific Energy Resources Ltd.		
Lease Name:	Nwlbu	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

17
East
1/8 - 1/4 Mile

OIL_GAS **CAOG13000133443**

API #:	0403725197	Well #:	6
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

D18
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG13000132060**

API #:	0403708855	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Gen. Exp. Amebco
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

19
South
1/8 - 1/4 Mile

OIL_GAS **CAOG13000133441**

API #:	0403725195	Well #:	4
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

E20
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG13000131092**

API #:	0403709554	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Winrock-Willis
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

D21
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG13000131326**

API #:	0403709796	Well #:	5-3
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	05/05/1938

E22
SSE
1/8 - 1/4 Mile

OIL_GAS **CAOG13000131091**

API #:	0403709553	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Winrock-Encinas
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

23
North
1/8 - 1/4 Mile

OIL_GAS **CAOG13000130788**

API #:	0403709248	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Berry-Loukonen Ltd.	Lease Name:	Jones
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

E24
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131327**

API #:	0403709797	Well #:	5-4
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

F25
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133521**

API #:	0403700397	Well #:	5-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	CRG Properties Ltd.	Lease Name:	Nwlbu
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	04/08/1938

F26
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132125**

API #:	0403708920	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

G27
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131411**

API #:	0403709884	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Queen and Scott	Lease Name:	Scott
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

G28
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130890**

API #:	0403709350	Well #:	35
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

29
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131499**

API #:	0403709975	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Hilo Oil Company	Lease Name:	Hilo-Northwest Extension
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

H30
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130894**

API #:	0403709354	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Lease by Delaney Petroleum Corp.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

31
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132879**

API #:	0403708393	Well #:	51
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	O'Donnell	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

I32
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132126**

API #:	0403708921	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

33
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133438**

API #:	0403725192	Well #:	1
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

I34
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131078**

API #:	0403709540	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Shell-Amebco
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

J35
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133166**

API #:	0403712179	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Woolner Oil Corp., Ltd.	Lease Name:	L.B. Fee
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

I36
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132127**

API #:	0403708922	Well #:	6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

H37
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130886**

API #:	0403709346	Well #:	24
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

K38
South
1/4 - 1/2 Mile

OIL_GAS **CAOG13000005391**

API #:	0403705631	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Marvel Oil Co.	Lease Name:	Christenson
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

G39
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130888**

API #:	0403709348	Well #:	30
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

I40
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132066**

API #:	0403708861	Well #:	54
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Johnston-Mcdonald
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

H41
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132164**

API #:	0403708959	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Ketchum	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

H42
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131274**

API #:	0403709741	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

J43
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133408**

API #:	0403710603	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	M. W. Mcvey	Lease Name:	Mcvey
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

I44
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133339**

API #:	0403712673	Well #:	53
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

J45
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132188**

API #:	0403710528	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Geo. W. Johnson	Lease Name:	Lease by Geo. W. Johnson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

J46
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133204**

API #:	0403711782	Well #:	15
Well Status:	Plugged	Well Type:	OG
Operator Name:	Transport Oil Co.	Lease Name:	Lease by Transport Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L47
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132124**

API #:	0403708919	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

L48
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131910**

API #:	0403710400	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	National Gas Syndicate	Lease Name:	Lease by National Gas Syndicate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

49
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131206**

API #:	0403709672	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Conoco Inc.	Lease Name:	Los Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

J50
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131415**

API #:	0403709888	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	Reliance Home Investment Co.		
Lease Name:	Lease by Reliance Home Investment Co.		
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L51
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133340**

API #:	0403712674	Well #:	33
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

M52
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132025**

API #:	0403708817	Well #:	21
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. R. Bush Oil Co.	Lease Name:	Lease by R. R. Bush Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

N53
NNW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131320**

API #:	0403709790	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	General Exploration Co.	Lease Name:	Flood Control
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O54
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132894**

API #:	0403708408	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Cook	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

M55
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132874**

API #:	0403708388	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Mckeon-Cerritos	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

N56
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133279**

API #:	0403711858	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Carson Dominguez Real Est Corp		
Lease Name:	Dominguez	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

J57
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131549**

API #:	0403710025	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Geo. W. Johnson	Lease Name:	Lease by Geo. W. Johnson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L58
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130828**

API #:	0403709288	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Adams & Moore	Lease Name:	Lease by Adams & Moore
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O59
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133414**

API #:	0403710609	Well #:	54
Well Status:	Plugged	Well Type:	OG
Operator Name:	Tom R. Merrell	Lease Name:	Lease by Tom R. Merrell
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

K60
South
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133442**

API #:	0403725196	Well #:	5
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

M61
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132186**

API #:	0403710526	Well #:	4-A
Well Status:	Plugged	Well Type:	OG
Operator Name:	Geo. W. Johnson	Lease Name:	Lease by Geo. W. Johnson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L62
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132337**

API #:	0403710765	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Vallette
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L63
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131702**

API #:	0403710185	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Olsen-Oliver	Lease Name:	Wallace
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

M64
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131416**

API #:	0403709889	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Reliance Home Investment Co.		
Lease Name:	Lease by Reliance Home Investment Co.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

M65
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131336**

API #:	0403709806	Well #:	11
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

66
NW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000133280**

API #:	0403711859	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Carson Dominguez Real Est Corp		
Lease Name:	Dominguez	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

M67
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131676**

API #:	0403710159	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. E. O'Donnell	Lease Name:	Jonte
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

M68
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130883**

API #:	0403709343	Well #:	16
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

P69
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131275**

API #:	0403709742	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O70
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132573**

API #:	0403711103	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	K. L. Smith	Lease Name:	Smith
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Q71
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000130885**

API #:	0403709345	Well #:	23
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O72
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132209**

API #:	0403710549	Well #:	28
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

L73
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000132121**

API #:	0403708916	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

M74
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131553**

API #:	0403710029	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lacy, McLachlen & Lacy	Lease Name:	Mclachlen
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

L75
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131980**

API #:	0403710473	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Santa Cruz Island Co.	Lease Name:	Lineberger
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O76
East
1/4 - 1/2 Mile

OIL_GAS **CAOG13000131196**

API #:	0403709662	Well #:	5
Well Status:	Idle	Well Type:	OG
Operator Name:	E. E. Combs Business Trust No. 3		
Lease Name:	E. E. Combs	Field Name:	Long Beach
Area Name:	Old	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

R77
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133341**

API #:	0403712675	Well #:	34
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

P78
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131580**

API #:	0403710058	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lowry Hydraulic Co. Inc.	Lease Name:	Davis
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

P79
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130790**

API #:	0403709250	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. H. Bess	Lease Name:	Lease by R. H. Bess
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

P80
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131226**

API #:	0403709692	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. L. Cragen	Lease Name:	Lease by E. L. Cragen
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

Q81
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131339**

API #:	0403709809	Well #:	15
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S82
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130737**

API #:	0403709191	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Stakemiller	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

O83
East
1/2 - 1 Mile

OIL_GAS **CAOG13000133084**

API #:	0403712096	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	A. P. Wallace	Lease Name:	Lease by A. P. Wallace
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S84
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132187**

API #:	0403710527	Well #:	5
Well Status:	Idle	Well Type:	OG
Operator Name:	Geo. W. Johnson	Lease Name:	Lease by Geo. W. Johnson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

S85
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130741**

API #:	0403709195	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Taylor	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

P86
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131701**

API #:	0403710184	Well #:	1-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Olsen-Oliver	Lease Name:	Comm.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

O87
East
1/2 - 1 Mile

OIL_GAS **CAOG13000130889**

API #:	0403709349	Well #:	31
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

T88
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000133515**

API #:	0403719068	Well #:	5
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

P89
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131979**

API #:	0403710472	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Santa Cruz Island Co.	Lease Name:	Lineberger
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

U90
East
1/2 - 1 Mile

OIL_GAS **CAOG13000133398**

API #:	0403710593	Well #:	4
Well Status:	Idle	Well Type:	OG
Operator Name:	McAlpine Petro. Corp.	Lease Name:	Mcalpine
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

R91
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132123**

API #:	0403708918	Well #:	2-A
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

S92
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130740**

API #:	0403709194	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Taylor	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

R93
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132086**

API #:	0403708881	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Oil Company	Lease Name:	Mcdonald
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

T94
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000132539**

API #:	0403711068	Well #:	2
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S95
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131295**

API #:	0403709762	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	C. M. Flickinger	Lease Name:	Jennings
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

T96
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000005935**

API #:	0403725000	Well #:	1
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson Core Hole
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

P97
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132837**

API #:	0403711371	Well #:	59
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Marine	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

S98
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131333**

API #:	0403709803	Well #:	12
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	King
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S99
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131316**

API #:	0403709784	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	John F. Gallagher	Lease Name:	Gallagher
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

V100
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130908**

API #:	0403709369	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Lineberger
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

V101
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131556**

API #:	0403710032	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Lake View Oil & Refining Co.		
Lease Name:	Lease by Lake View Oil & Refining Co.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S102
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132095**

API #:	0403708890	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Lease by Atlantic Richfield Company		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S103
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131338**

API #:	0403709808	Well #:	14
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S104
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131564**

API #:	0403710042	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Law and Sanders	Lease Name:	Lease by Law and Sanders
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

105
SSE
1/2 - 1 Mile

OIL_GAS **CAOG13000133440**

API #:	0403725194	Well #:	3
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Bixby Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

R106
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132212**

API #:	0403710552	Well #:	38
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

U107
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132230**

API #:	0403710570	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Keck Syndicate #5	Lease Name:	Modoc L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

T108
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000133513**

API #:	0403719066	Well #:	3
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

V109
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132285**

API #:	0403710712	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Hilton
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

U110
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132231**

API #:	0403710571	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Keck Syndicate #5	Lease Name:	Modoc L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S111
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131796**

API #:	0403710280	Well #:	C-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

W112
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131076**

API #:	0403709538	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Richfield-Bixby
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

S113
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132181**

API #:	0403710520	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Tom Sharp	Lease Name:	Sharp-Redick
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S114
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131340**

API #:	0403709810	Well #:	16
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X115
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131930**

API #:	0403710421	Well #:	60
Well Status:	Plugged	Well Type:	OG
Operator Name:	Oceanview Oil Corp.	Lease Name:	Marine
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

W116
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132073**

API #:	0403708868	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Markham-Maud Anna
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

S117
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132284**

API #:	0403710711	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Heartwell
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

118
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000133514**

API #:	0403719067	Well #:	4
Well Status:	Plugged	Well Type:	CH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson Core Hole
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y119
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131797**

API #:	0403710281	Well #:	C-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

S120
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132208**

API #:	0403710548	Well #:	27
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

V121
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130738**

API #:	0403709192	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Stewart	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Y122
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131401**

API #:	0403709873	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Prudential Oil Co.	Lease Name:	Kaweah
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

W123
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132064**

API #:	0403708859	Well #:	35
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Johnston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y124
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131167**

API #:	0403709632	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	B. H. Cochran	Lease Name:	Cochran
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

X125
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132627**

API #:	0403711158	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	T. &. M Petro. Co.	Lease Name:	Fee
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

V126
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130897**

API #:	0403709357	Well #:	11
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Lease by Delaney Petroleum Corp.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X127
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132628**

API #:	0403711159	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	T. &. M Petro. Co.	Lease Name:	Holton
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X128
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130887**

API #:	0403709347	Well #:	25
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

X129
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132983**

API #:	0403711495	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Bryant
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Z130
SSE
1/2 - 1 Mile

OIL_GAS **CAOG13000131562**

API #:	0403710039	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	G. A. Langstaff	Lease Name:	Bixby
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y131
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132018**

API #:	0403708810	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Roy Maggart & C.C. Cummings, Trustees		
Lease Name:	Bucklin	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

X132
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132579**

API #:	0403711109	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Southern California Salvage Co.		
Lease Name:	Lease by Southern California Salvage Co.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

W133
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132211**

API #:	0403710551	Well #:	37
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y134
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132984**

API #:	0403711496	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Bucklin
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X135
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132982**

API #:	0403711494	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Bryant
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y136
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132110**

API #:	0403708905	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Barnes	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

W137
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131073**

API #:	0403709535	Well #:	33
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Preston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AA138
South
1/2 - 1 Mile

OIL_GAS **CAOG13000005718**

API #:	0403706239	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Westoil Corp.	Lease Name:	Lease by Westoil Corp.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB139
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132947**

API #:	0403708461	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bowles-Griffith	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AB140
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133208**

API #:	0403711787	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Tryon & Brain	Lease Name:	Lineberger
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

141
NW
1/2 - 1 Mile

OIL_GAS **CAOG13000005217**

API #:	0403705417	Well #:	2
Well Status:	Plugged	Well Type:	DH
Operator Name:	General Exploration Co.	Lease Name:	Dominguez
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB142
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132625**

API #:	0403711156	Well #:	6
Well Status:	Plugged	Well Type:	OG
Operator Name:	T. &. M Petro. Co.	Lease Name:	Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB143
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131005**

API #:	0403709467	Well #:	39
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y144
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132598**

API #:	0403711129	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Royce	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

W145
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132065**

API #:	0403708860	Well #:	36
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Johnston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AA146
South
1/2 - 1 Mile

OIL_GAS **CAOG13000005719**

API #:	0403706240	Well #:	3-A
Well Status:	Plugged	Well Type:	DH
Operator Name:	Westoil Corp.	Lease Name:	Lease by Westoil Corp.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X147
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132289**

API #:	0403710716	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Los Cerritos Synd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X148
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131096**

API #:	0403709558	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Chas. W. Camp	Lease Name:	Lease by Estate of Chas. W. Camp
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

X149
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131403**

API #:	0403709875	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pugh-Miller Drilling Co.	Lease Name:	Lease by Pugh-Miller Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

150
SSE
1/2 - 1 Mile

OIL_GAS **CAOG13000005349**

API #:	0403705558	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Kramildon Oil Co.	Lease Name:	Lease by Kramildon Oil Co.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

151
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131565**

API #:	0403710043	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	C. A. Lawrence	Lease Name:	Lease by C. A. Lawrence
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Z152
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132122**

API #:	0403708917	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Bixby 2	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

X153
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132624**

API #:	0403711155	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	T. &. M Petro. Co.	Lease Name:	Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Y154
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131911**

API #:	0403710401	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	National Gas Syndicate	Lease Name:	Lease by National Gas Syndicate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

X155
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131337**

API #:	0403709807	Well #:	13
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	L.B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC156
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132205**

API #:	0403710545	Well #:	19
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB157
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131026**

API #:	0403709488	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Craig-Burns	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AD158
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131051**

API #:	0403709513	Well #:	13
Well Status:	Plugged	Well Type:	OG
Operator Name:	Davis Investment LLC	Lease Name:	Lease by Davis Investment LLC
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB159
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132978**

API #:	0403711489	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Berk
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC160
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132062**

API #:	0403708857	Well #:	20
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Johnston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AE161
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132626**

API #:	0403711157	Well #:	9
Well Status:	Plugged	Well Type:	OG
Operator Name:	T. &. M Petro. Co.	Lease Name:	Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE162
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132030**

API #:	0403708822	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	D. S. Bushnell	Lease Name:	Lease by D. S. Bushnell
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB163
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131465**

API #:	0403709940	Well #:	10
Well Status:	Plugged	Well Type:	OG
Operator Name:	M. M. Harris	Lease Name:	Lease by M. M. Harris
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD164
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131711**

API #:	0403710194	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Owens & Applegate	Lease Name:	Miley
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AF165
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131107**

API #:	0403709569	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	Remora Operating CA, LLC	Lease Name:	Ten Eyck
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC166
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132248**

API #:	0403710590	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	L. T. Mayo	Lease Name:	Grant-Miller
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC167
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131738**

API #:	0403710222	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Petroleum Securities Co.	Lease Name:	Bixby
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC168
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132063**

API #:	0403708858	Well #:	21
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Johnston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AD169
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131645**

API #:	0403710128	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mills Oil Co.	Lease Name:	Gibson
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD170
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131405**

API #:	0403709877	Well #:	10
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pugh-Miller Drilling Co.	Lease Name:	Lease by Pugh-Miller Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD171
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131317**

API #:	0403709785	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	John F. Gallagher and W. C. Tomlin		
Lease Name:	G. & T.	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AB172
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131029**

API #:	0403709491	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Delaney	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

AF173
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133333**

API #:	0403712421	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	L. V. Wilson	Lease Name:	Lease by L. V. Wilson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE174
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130787**

API #:	0403709246	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Bessie Berman	Lease Name:	B. B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC175
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132247**

API #:	0403710589	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	L. T. Mayo	Lease Name:	Grant-Miller
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC176
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132300**

API #:	0403710727	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Marine Fee
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AF177
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131597**

API #:	0403710076	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. N. Macrate	Lease Name:	Lease by A. N. Macrate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD178
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131407**

API #:	0403709879	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pugh-Miller Drilling Co.	Lease Name:	Marine Trust & Savings
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AC179
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133178**

API #:	0403712192	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Yunker, Morton & Dolley	Lease Name:	Wolter
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AB180
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131420**

API #:	0403709893	Well #:	78
Well Status:	Idle	Well Type:	OG
Operator Name:	Retsof Drilling Co.	Lease Name:	Lease by Retsof Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AB181
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131050**

API #:	0403709512	Well #:	12
Well Status:	Plugged	Well Type:	OG
Operator Name:	Davis Investment LLC	Lease Name:	Lease by Davis Investment LLC
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE182
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132010**

API #:	0403708801	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. S. Brooks	Lease Name:	Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD183
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131561**

API #:	0403710038	Well #:	55
Well Status:	Plugged	Well Type:	OG
Operator Name:	Martin O. Landers	Lease Name:	Marine
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE184
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130901**

API #:	0403709361	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Cerritos
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AE185
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132820**

API #:	0403711354	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Dunlap	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AD186
East
1/2 - 1 Mile

OIL_GAS **CAOG13000132836**

API #:	0403711370	Well #:	56
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Marine	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AC187
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131832**

API #:	0403710321	Well #:	9
Well Status:	Plugged	Well Type:	OG
Operator Name:	Jergins Syndicate, Inc.	Lease Name:	Lease by Jergins Syndicate, Inc.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AF188
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131074**

API #:	0403709536	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Rhea
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AD189
East
1/2 - 1 Mile

OIL_GAS **CAOG13000130891**

API #:	0403709351	Well #:	36
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE190
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132339**

API #:	0403710767	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Wedum-Aldahl
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE191
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131303**

API #:	0403709771	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Four Star Oil Co.	Lease Name:	Lease by Four Star Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG192
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131419**

API #:	0403709892	Well #:	77
Well Status:	Idle	Well Type:	OG
Operator Name:	Retsof Drilling Co.	Lease Name:	Lease by Retsof Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AG193
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131811**

API #:	0403710296	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. E. Ibbetson Drilling Co.		
Lease Name:	Lease by R. E. Ibbetson Drilling Co.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AD194
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131049**

API #:	0403709511	Well #:	11
Well Status:	Plugged	Well Type:	OG
Operator Name:	Davis Investment LLC	Lease Name:	Lease by Davis Investment LLC
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AF195
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132590**

API #:	0403711121	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Goldie & Rosa Steiner	Lease Name:	Lease by Goldie & Rosa Steiner
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AH196
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131088**

API #:	0403709550	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Venago
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AF197
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132206**

API #:	0403710546	Well #:	22
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE198
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132822**

API #:	0403711356	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Laughlin	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AE199
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131655**

API #:	0403710138	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Kenneth Mills	Lease Name:	Turner
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE200
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133081**

API #:	0403712093	Well #:	3
Well Status:	Idle	Well Type:	OG
Operator Name:	W.M.C. Oil Co.	Lease Name:	Lease by W.M.C. Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AC201
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131833**

API #:	0403710322	Well #:	10
Well Status:	Plugged	Well Type:	OG
Operator Name:	Jergins Syndicate, Inc.	Lease Name:	Lease by Jergins Syndicate, Inc.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG202
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131304**

API #:	0403709772	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Four Star Oil Co.	Lease Name:	Lease by Four Star Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AF203
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132224**

API #:	0403710564	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Julian Petroleum Corp.	Lease Name:	Amsel
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AH204
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132074**

API #:	0403708869	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Mayo-Chiksan
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AE205
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132338**

API #:	0403710766	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Walker 2
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG206
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131278**

API #:	0403709745	Well #:	19
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI207
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131421**

API #:	0403709894	Well #:	81
Well Status:	Plugged	Well Type:	OG
Operator Name:	Retsof Drilling Co.	Lease Name:	Foster
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AE208
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133428**

API #:	0403710623	Well #:	13
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mills Oil Co.	Lease Name:	Delaney
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AH209
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133089**

API #:	0403712101	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. B. Watkins	Lease Name:	Wolter
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG210
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133427**

API #:	0403710622	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Kenneth Mills	Lease Name:	Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AJ211
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132249**

API #:	0403710676	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Frye
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG212
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131354**

API #:	0403709824	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	H. Giessner	Lease Name:	Edington-Witz
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AG213
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131279**

API #:	0403709746	Well #:	20
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG214
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132295**

API #:	0403710722	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Marquis
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AK215
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131830**

API #:	0403710319	Well #:	6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Jergins Syndicate, Inc.	Lease Name:	Lease by Jergins Syndicate, Inc.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AH216
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133397**

API #:	0403710592	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	L. T. Mayo	Lease Name:	Shotliff
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AI217
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131445**

API #:	0403709918	Well #:	60
Well Status:	Plugged	Well Type:	OG
Operator Name:	Rothschild Oil Co.	Lease Name:	Lease by Rothschild Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI218
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132329**

API #:	0403710757	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Royce
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI219
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131408**

API #:	0403709881	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Carter Purvis	Lease Name:	Travers
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AG220
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132990**

API #:	0403711502	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Campbell-Morris
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AH221
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132045**

API #:	0403708840	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Coast-Alamo
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI222
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131851**

API #:	0403710340	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. D. Mitchell	Lease Name:	Gem
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL223
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131273**

API #:	0403709740	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AH224
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131480**

API #:	0403709956	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Hearrell Oil Co.	Lease Name:	Riedman
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AJ225
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132250**

API #:	0403710677	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Frye
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI226
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132001**

API #:	0403708792	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Robert Bromberg, Trustee for Community.		
Lease Name:	Humiston	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AJ227
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132155**

API #:	0403708950	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Richfield Company		
Lease Name:	Hodges Community	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AH228
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132075**

API #:	0403708870	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Mills
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AL229
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132987**

API #:	0403711499	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Brush
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AK230
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132794**

API #:	0403711328	Well #:	21
Well Status:	Plugged	Well Type:	OG
Operator Name:	Phillips Petroleum Company		
Lease Name:	Signal	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AL231
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131277**

API #:	0403709744	Well #:	18
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL232
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130881**

API #:	0403709341	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AM233
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131566**

API #:	0403710044	Well #:	59
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. O. Lewis	Lease Name:	Lease by A. O. Lewis
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AN234
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131111**

API #:	0403709573	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Carter Petro. Co., Ltd.	Lease Name:	Lease by Carter Petro. Co., Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI235
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131993**

API #:	0403708784	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Philip R. Brain Oil Co.	Lease Name:	Athon
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AK236
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131687**

API #:	0403710170	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. E. O'Donnell	Lease Name:	Strader
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AI237
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130884**

API #:	0403709344	Well #:	19
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL238
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131276**

API #:	0403709743	Well #:	17
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. Farbstein	Lease Name:	Lease by J. Farbstein
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AN239
SSE
1/2 - 1 Mile

OIL_GAS **CAOG13000131216**

API #:	0403709682	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Core Oil Syndicate	Lease Name:	Lease by Core Oil Syndicate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM240
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131016**

API #:	0403709478	Well #:	82
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AO241
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132040**

API #:	0403708835	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	A & E
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

242
South
1/2 - 1 Mile

OIL_GAS **CAOG13000005720**

API #:	0403706241	Well #:	5
Well Status:	Idle	Well Type:	OG
Operator Name:	Westoil Corp.	Lease Name:	Lease by Westoil Corp.
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP243
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132026**

API #:	0403708818	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	R. R. Bush Oil Co.	Lease Name:	Bell
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI244
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133317**

API #:	0403712405	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Westates Petroleum Co.	Lease Name:	Gem
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AJ245
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131794**

API #:	0403710278	Well #:	A-3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL246
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132594**

API #:	0403711125	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	C. F. Sudduth	Lease Name:	Sudduth
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AI247
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132773**

API #:	0403711307	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Phillips Petroleum Company		
Lease Name:	Reagan	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AL248
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132218**

API #:	0403710558	Well #:	52
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AJ249
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131792**

API #:	0403710276	Well #:	A-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AQ250
North
1/2 - 1 Mile

OIL_GAS **CAOG13000005438**

API #:	0403705737	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Occidental Petroleum Corporation		
Lease Name:	Virginia Country Club	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
SPUD Date:	Not Reported		

AK251
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133403**

API #:	0403710598	Well #:	A-2
Well Status:	Active	Well Type:	OG
Operator Name:	P&M Oil Company, Inc.	Lease Name:	A.S. Johnston
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AN252
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131831**

API #:	0403710320	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	Jergins Syndicate, Inc.	Lease Name:	Lease by Jergins Syndicate, Inc.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AK253
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132204**

API #:	0403710544	Well #:	18
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AN254
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132798**

API #:	0403711332	Well #:	25
Well Status:	Plugged	Well Type:	OG
Operator Name:	Phillips Petroleum Company		
Lease Name:	Signal	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AL255
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131024**

API #:	0403709486	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Craig-Burns	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AL256
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131692**

API #:	0403710175	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Oil Producers, Ltd.	Lease Name:	Lease by Oil Producers, Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AM257
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132840**

API #:	0403711374	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Mcshane & Lackey	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AK258
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131018**

API #:	0403709480	Well #:	87
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP259
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132024**

API #:	0403708816	Well #:	15
Well Status:	Idle	Well Type:	OG
Operator Name:	R. R. Bush Oil Co.	Lease Name:	Lease by R. R. Bush Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP260
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132597**

API #:	0403711128	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Reagan	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

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Map ID
Direction
Distance

Database EDR ID Number

AL261
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132251**

API #:	0403710678	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Good
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL262
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132207**

API #:	0403710547	Well #:	23
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM263
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131793**

API #:	0403710277	Well #:	A-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AN264
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132582**

API #:	0403711112	Well #:	4
Well Status:	Idle	Well Type:	OG
Operator Name:	Special Delivery Oil Syndicate #4		
Lease Name:	Lease by Special Delivery Oil Syndicate #4		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AO265
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132067**

API #:	0403708862	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	State of California	Lease Name:	Jones
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM266
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133419**

API #:	0403710614	Well #:	B-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Julian J. Miley	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL267
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131418**

API #:	0403709891	Well #:	75
Well Status:	Plugged	Well Type:	OG
Operator Name:	Retsof Drilling Co.	Lease Name:	Lease by Retsof Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP268
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133104**

API #:	0403712117	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	S & C Oil Co., Inc.	Lease Name:	Bell
Field Name:	Long Beach	Area Name:	Old
GIS Source:	Well Summary	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	04/30/1930

Map ID
Direction
Distance

Database EDR ID Number

AR269
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132214**

API #:	0403710554	Well #:	40
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. S. Johnston Drilling Corp.		
Lease Name:	Lease by A. S. Johnston Drilling Corp.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM270
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131432**

API #:	0403709905	Well #:	18
Well Status:	Plugged	Well Type:	OG
Operator Name:	Ring Oil Co.	Lease Name:	Lease by Ring Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM271
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131181**

API #:	0403709647	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Cockriel Petroleum	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

272
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131094**

API #:	0403709556	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Calstar Petroleum Co.	Lease Name:	Colby
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

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Map ID
Direction
Distance

Database EDR ID Number

AN273
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131006**

API #:	0403709468	Well #:	41
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AO274
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131164**

API #:	0403709629	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Coast Supply Company Ltd.	Lease Name:	Vesta
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AL275
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133365**

API #:	0403710486	Well #:	2
Well Status:	Active	Well Type:	OG
Operator Name:	E & B Natural Resources Management Corporation		
Lease Name:	Just	Field Name:	Long Beach
Area Name:	Old	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AM276
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130762**

API #:	0403709221	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	W.J. Ball	Lease Name:	Ball
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AP277
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133083**

API #:	0403712095	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. P. Wallace	Lease Name:	Lease by A. P. Wallace
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR278
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131524**

API #:	0403710000	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Hub Oil Co.	Lease Name:	Woodward
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR279
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131008**

API #:	0403709470	Well #:	50
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM280
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131997**

API #:	0403708788	Well #:	10
Well Status:	Plugged	Well Type:	OG
Operator Name:	Harry H. Briggs	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

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Map ID
Direction
Distance

Database EDR ID Number

AS281
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133364**

API #:	0403710485	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	E & B Natural Resources Management Corporation		
Lease Name:	Just	Field Name:	Long Beach
Area Name:	Old	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AM282
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131795**

API #:	0403710279	Well #:	B-2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP283
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131310**

API #:	0403709778	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Frankley, Andrews & Zellers		
Lease Name:	Lease by Frankley, Andrews & Zellers		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR284
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133164**

API #:	0403712177	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Woolner Oil Corp., Ltd.	Lease Name:	L.B. Fee
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AP285
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130930**

API #:	0403709392	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Joseph H. Duncan	Lease Name:	Castle
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AO286
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131736**

API #:	0403710220	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	The Petro. Co.	Lease Name:	Nigus
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT287
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133328**

API #:	0403712416	Well #:	21
Well Status:	Plugged	Well Type:	OG
Operator Name:	W. G. Wickey	Lease Name:	Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP288
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130958**

API #:	0403709420	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. V. Edmondson	Lease Name:	Neat
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AM289
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133090**

API #:	0403712103	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Walter Welton & John McGill		
Lease Name:	Verhaar	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AS290
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130779**

API #:	0403709238	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	W. W. Beldin	Lease Name:	Lease by W. W. Beldin
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS291
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133516**

API #:	0403700389	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	888-5 Partners, LLC	Lease Name:	Leavell
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AP292
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131829**

API #:	0403710316	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Robert E. Jackson	Lease Name:	Lease by Robert E. Jackson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AT293
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131227**

API #:	0403709693	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. L. Cragen	Lease Name:	Lease by E. L. Cragen
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR294
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130998**

API #:	0403709460	Well #:	27
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AM295
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132572**

API #:	0403711102	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. A. Smith, Trustee	Lease Name:	Clark & Caston
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AO296
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132047**

API #:	0403708842	Well #:	38
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Dabney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AT297
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131180**

API #:	0403709646	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Cockriel Petroleum	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR298
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132793**

API #:	0403711327	Well #:	20
Well Status:	Plugged	Well Type:	OG
Operator Name:	Phillips Petroleum Company		
Lease Name:	Signal	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AP299
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131721**

API #:	0403710205	Well #:	9
Well Status:	Plugged	Well Type:	OG
Operator Name:	Painted Hills Oil Ass'n	Lease Name:	Lease by Painted Hills Oil Ass'n
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS300
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131114**

API #:	0403709576	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	888-5 Partners, LLC	Lease Name:	Cather
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR301
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131000**

API #:	0403709462	Well #:	30
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AO302
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131081**

API #:	0403709543	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Spaulding-Probasco
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR303
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131002**

API #:	0403709464	Well #:	34
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT304
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131404**

API #:	0403709876	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pugh-Miller Drilling Co.	Lease Name:	Lease by Pugh-Miller Drilling Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AT305
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131493**

API #:	0403709969	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	W. F. Higgins	Lease Name:	Higgins
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT306
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131798**

API #:	0403710282	Well #:	D-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	Wilshire
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

307
East
1/2 - 1 Mile

OIL_GAS **CAOG13000131584**

API #:	0403710062	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Lynes Oil Syndicate	Lease Name:	Chateau Thiery
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR308
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131931**

API #:	0403710422	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Odell Petro. Corp.	Lease Name:	Odell-Shippey
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AQ309
North
1/2 - 1 Mile

OIL_GAS **CAOG13000005657**

API #:	0403706067	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Carson (nct-1)
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	Y	SPUD Date:	Not Reported

AT310
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132183**

API #:	0403710523	Well #:	11
Well Status:	Plugged	Well Type:	OG
Operator Name:	Shasta Petro. Co.	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS311
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133174**

API #:	0403712187	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	S. S. Wortley	Lease Name:	Lease by S. S. Wortley
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AO312
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132079**

API #:	0403708874	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	N & S Spaulding
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AT313
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131492**

API #:	0403709968	Well #:	12
Well Status:	Plugged	Well Type:	OG
Operator Name:	C. C. Herwick	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT314
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130854**

API #:	0403709314	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Applegate & Herwick	Lease Name:	Lease by Applegate & Herwick
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR315
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131071**

API #:	0403709533	Well #:	8
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Painted Hills
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS316
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132006**

API #:	0403708797	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. W. Brooks Production	Lease Name:	Abrams
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR317
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133383**

API #:	0403710504	Well #:	9
Well Status:	Plugged	Well Type:	OG
Operator Name:	Selbar Oil Co.	Lease Name:	Lease by Selbar Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT318
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130957**

API #:	0403709419	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. V. Edmondson	Lease Name:	Hughes
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR319
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130999**

API #:	0403709461	Well #:	29
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT320
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132091**

API #:	0403708886	Well #:	13
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Oil Company	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AS321
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130895**

API #:	0403709355	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Lease by Delaney Petroleum Corp.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS322
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131588**

API #:	0403710066	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Harry E. MacAdam	Lease Name:	Lease by Harry E. MacAdam
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU323
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131889**

API #:	0403710379	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Fred T. Moody	Lease Name:	Detroit
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS324
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131600**

API #:	0403710079	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. N. Macrate	Lease Name:	Lease by A. N. Macrate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AR325
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131663**

API #:	0403710146	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. E. O'Donnell	Lease Name:	Lease by J. E. O'Donnell
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT326
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132190**

API #:	0403710530	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Roggie-Johnson Drilling Co.		
Lease Name:	Lease by Roggie-Johnson Drilling Co.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS327
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130758**

API #:	0403709216	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	C. E. Braly	Lease Name:	Fee
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU328
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130802**

API #:	0403709262	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	L. E. Bishop Oil Co.	Lease Name:	Lease by L. E. Bishop Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AR329
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130939**

API #:	0403709401	Well #:	14
Well Status:	Plugged	Well Type:	OG
Operator Name:	D D Dunlap Oil Co.	Lease Name:	Lease by D D Dunlap Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU330
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132860**

API #:	0403706418	Well #:	6
Well Status:	Plugged	Well Type:	OG
Operator Name:	Shasta Pan Oil Co.	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AV331
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131788**

API #:	0403710272	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Exxon Mobil Corporation	Lease Name:	L. B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW332
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131004**

API #:	0403709466	Well #:	37
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AS333
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133337**

API #:	0403712426	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	Wood-Callahan Oil Co., Ltd.		
Lease Name:	Lease by Wood-Callahan Oil Co., Ltd.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU334
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130717**

API #:	0403709170	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	John M. Abrams	Lease Name:	Lease by John M. Abrams
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AV335
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132586**

API #:	0403711117	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Standlee Oil Co.	Lease Name:	Lease by Standlee Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT336
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130959**

API #:	0403709421	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	L. T. Edwards	Lease Name:	Hines
Field Name:	Long Beach	Area Name:	Old
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AT337
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132821**

API #:	0403711355	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Fee	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AT338
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131827**

API #:	0403710314	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Minus E. Jackson	Lease Name:	Rainbow
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR339
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133357**

API #:	0403710478	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Scott Oil Co.	Lease Name:	Anderson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX340
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132226**

API #:	0403710566	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Julian Petroleum Corp.	Lease Name:	K. M. & B.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AX341
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131630**

API #:	0403710113	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Howard S. Martin	Lease Name:	Lease by Howard S. Martin
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AR342
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131503**

API #:	0403709979	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Hocking & Andrews	Lease Name:	Walker
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT343
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133421**

API #:	0403710616	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	E. E. Millican	Lease Name:	Lease by E. E. Millican
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW344
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133381**

API #:	0403710502	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Selbar Oil Co.	Lease Name:	Lease by Selbar Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AX345
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131412**

API #:	0403709885	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	Remora Operating CA, LLC	Lease Name:	Bott
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT346
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131888**

API #:	0403710378	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Montello Oil Co. Ltd.	Lease Name:	Lease by Montello Oil Co. Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX347
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132049**

API #:	0403708844	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Dabney-Scott-Mogle
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

348
North
1/2 - 1 Mile

OIL_GAS **CAOG13000005536**

API #:	0403705881	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Carson
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AV349
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131606**

API #:	0403710085	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. N. Macrate	Lease Name:	Hines
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU350
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130774**

API #:	0403709233	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Baxter Petro. Co., Ltd.	Lease Name:	Lease by Baxter Petro. Co., Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW351
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130994**

API #:	0403709456	Well #:	20
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AT352
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132841**

API #:	0403711375	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Mills	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AV353
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131560**

API #:	0403710037	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	W. C. Lance	Lease Name:	Lease by W. C. Lance
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AS354
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130763**

API #:	0403709222	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	888-5 Partners, LLC	Lease Name:	Lamb
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU355
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131355**

API #:	0403709825	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	H. Giessner	Lease Name:	Wheeler-Obrien-Star
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX356
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131079**

API #:	0403709541	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Southern
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AX357
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133336**

API #:	0403712425	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Wood-Callahan Oil Co., Ltd.		
Lease Name:	Lease by Wood-Callahan Oil Co., Ltd.		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

358
NE
1/2 - 1 Mile

OIL_GAS **CAOG13000005549**

API #:	0403705901	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Shell Western E&P Inc.	Lease Name:	Virginia
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU359
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132259**

API #:	0403710686	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Green
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX360
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132008**

API #:	0403708799	Well #:	4
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. W. Brooks Production	Lease Name:	Macmillan
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AY361
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131502**

API #:	0403709978	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Hocking & Andrews	Lease Name:	Walker
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU362
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131964**

API #:	0403710457	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Santa Cruz Island Co.	Lease Name:	Benton Smith
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW363
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130995**

API #:	0403709457	Well #:	24
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AZ364
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130914**

API #:	0403709375	Well #:	26
Well Status:	Plugged	Well Type:	OG
Operator Name:	Delaney Petroleum Corp.	Lease Name:	Herwick
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AU365
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131883**

API #:	0403710373	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mobil Oil Corporation	Lease Name:	Ransome
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU366
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133278**

API #:	0403711857	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Vesta Petroleum Co., Ltd.	Lease Name:	Lease by Vesta Petroleum Co., Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA367
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131292**

API #:	0403709759	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Fred Fitch	Lease Name:	Lease by Fred Fitch
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW368
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131007**

API #:	0403709469	Well #:	42
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AZ369
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131116**

API #:	0403709578	Well #:	1
Well Status:	Active	Well Type:	OG
Operator Name:	888-6 Partners, LLC	Lease Name:	Cather-Cherokee
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AY370
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130861**

API #:	0403709321	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Oil Company	Lease Name:	Lease by Atlantic Oil Company
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA371
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132225**

API #:	0403710565	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Julian Petroleum Corp.	Lease Name:	Barnes
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW372
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130935**

API #:	0403709397	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	D D Dunlap Oil Co.	Lease Name:	Lease by D D Dunlap Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AU373
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131863**

API #:	0403710352	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mobil Oil Corporation	Lease Name:	Lease by Mobil Oil Corporation
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX374
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131356**

API #:	0403709826	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Harold A. Gilman and J. Farbstein		
Lease Name:	Lease by Harold A. Gilman and J. Farbstein		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA375
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132819**

API #:	0403711353	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Crown Central Petro. Corp.		
Lease Name:	Chandler	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AW376
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131622**

API #:	0403710102	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	Main Oil Well Supply Co.	Lease Name:	Judd
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AZ377
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131284**

API #:	0403709751	Well #:	15
Well Status:	Plugged	Well Type:	OG
Operator Name:	Featherstone & Preston Inc.		
Lease Name:	Featherstone	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AV378
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131722**

API #:	0403710206	Well #:	10
Well Status:	Plugged	Well Type:	OG
Operator Name:	Painted Hills Oil Ass'n	Lease Name:	Lease by Painted Hills Oil Ass'n
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU379
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130808**

API #:	0403709268	Well #:	2
Well Status:	Idle	Well Type:	OG
Operator Name:	Biltmore Petro. Corp.	Lease Name:	Lease by Biltmore Petro. Corp.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA380
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131978**

API #:	0403710471	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Santa Cruz Island Co.	Lease Name:	Jameco
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AZ381
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131115**

API #:	0403709577	Well #:	2
Well Status:	Active	Well Type:	OG
Operator Name:	888-6 Partners, LLC	Lease Name:	Cather-Cherokee
Field Name:	Long Beach	Area Name:	Old
GIS Source:	GPS	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX382
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131882**

API #:	0403710372	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mobil Oil Corporation	Lease Name:	A. R. Parks
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AW383
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131375**

API #:	0403709847	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	H. C. S. Oil Co.	Lease Name:	Lease by H. C. S. Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AU384
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131718**

API #:	0403710202	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Padre Oil Co.	Lease Name:	Lease by Padre Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AY385
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131209**

API #:	0403709675	Well #:	1-A
Well Status:	Plugged	Well Type:	OG
Operator Name:	Convoy Petro. Co.	Lease Name:	Lease by Convoy Petro. Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA386
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132034**

API #:	0403708826	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	C. & M. Oil Co.	Lease Name:	Lease by C. & M. Oil Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AY387
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131208**

API #:	0403709674	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Convoy Petro. Co.	Lease Name:	Lease by Convoy Petro. Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA388
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132090**

API #:	0403708885	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Atlantic Oil Company	Lease Name:	Shasta
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AY389
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000133165**

API #:	0403712178	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Woolner Oil Corp., Ltd.	Lease Name:	L.B. Fee
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX390
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131090**

API #:	0403709552	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Weaver
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AZ391
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131028**

API #:	0403709490	Well #:	22
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Craig-Burns	Field Name:	Long Beach
Area Name:	Northwest Extension	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

AX392
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131598**

API #:	0403710077	Well #:	2(Repetto)
Well Status:	Idle	Well Type:	OG
Operator Name:	A. N. Macrate	Lease Name:	Lease by A. N. Macrate
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AY393
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132014**

API #:	0403708805	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	D. L. Brown	Lease Name:	Johnson
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AZ394
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131924**

API #:	0403710415	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	F. E. Null & R. V. Hearons		
Lease Name:	Lease by F. E. Null & R. V. Hearons		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AX395
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131012**

API #:	0403709474	Well #:	65
Well Status:	Plugged	Well Type:	OG
Operator Name:	Estate of Louise E. Dabney		
Lease Name:	Lease by Estate of Louise E. Dabney		
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AZ396
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131386**

API #:	0403709858	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	W. A. Playter	Lease Name:	Bunny
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AY397
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000130927**

API #:	0403709389	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	C. B. Douglas	Lease Name:	Donna
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BB398
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130882**

API #:	0403709342	Well #:	6
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. J. Delaney	Lease Name:	Lease by A. J. Delaney
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA399
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000132228**

API #:	0403710568	Well #:	2
Well Status:	Plugged	Well Type:	OG
Operator Name:	Keck and McWherter	Lease Name:	Lease by Keck and McWherter
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AV400
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000133356**

API #:	0403710477	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	A. B. Scott	Lease Name:	Corbett
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

BB401
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131382**

API #:	0403709854	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	F. G. Phillips & Co.	Lease Name:	Lease by F. G. Phillips & Co.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BC402
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132071**

API #:	0403708866	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Main
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BC403
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000132072**

API #:	0403708867	Well #:	1-A
Well Status:	Plugged	Well Type:	OG
Operator Name:	State of California	Lease Name:	Main
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA404
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000130960**

API #:	0403709422	Well #:	7
Well Status:	Plugged	Well Type:	OG
Operator Name:	Elbe Oil Land Dev. Co.	Lease Name:	Elbe
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AX405
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131881**

API #:	0403710371	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mobil Oil Corporation	Lease Name:	A. R. Parks
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA406
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131183**

API #:	0403709649	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Charles B. Colby	Lease Name:	Extension
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AY407
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131155**

API #:	0403709619	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Coast Supply Company Ltd.	Lease Name:	Liebert
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BC408
SE
1/2 - 1 Mile

OIL_GAS **CAOG13000131880**

API #:	0403710370	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Mobil Oil Corporation	Lease Name:	Parks
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

Database EDR ID Number

AZ409
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131126**

API #:	0403709589	Well #:	3
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chiksan Oil Co., Ltd.	Lease Name:	Lease by Chiksan Oil Co., Ltd.
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

BA410
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131467**

API #:	0403709942	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Sunrock Oil Co.	Lease Name:	Carter
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

AZ411
ESE
1/2 - 1 Mile

OIL_GAS **CAOG13000131138**

API #:	0403709601	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	William A. Clark	Lease Name:	Buffum
Field Name:	Long Beach	Area Name:	Northwest Extension
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90806	12	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Photographic Log

Appendix G – Site Photographs

G-1. View from the southeastern portion of the Site looking north, the approximate location of two former oil wells is in the front left of the photograph (08/02/2019).

G-2. Location of the former onsite buildings, beyond which is the existing canopy in the southern portion of the Site (08/02/2019).

G-3. View from the northern portion of the Site looking south; variations in elevation can be seen (08/02/2019).

G-4. View from the southwestern portion of the Site looking north; variations in elevation can be seen (08/02/2019).

G-5. Billboard located in the southwestern corner of the SIte along the adjacent I-405 Freeway (08/02/2019).

G-6. View from the western boundary of the Site looking east (08/02/2019).

G-7. View from the western boundary of the Site looking south-southeast; variations in elevation can be seen (08/02/2019).

G-8. View along the western boundary of the Site looking south, in the vicinity of a former oil well (08/02/2019).

G-9. View of the lower elevation, northern corner of the Site, looking northeast, in the vicinity of three former oil wells (08/02/2019).

G-10. Damaged wall located along the eastern Site boundary, toward the northern corner of the Site (08/02/2019).

G-11. View along the eastern border of the Site, looking towards the southeast (08/02/2019).

G-12. View of a possible drainage feature on a concrete slab in the southwestern portion of the Site (08/02/2019).

G-13. View of the unpaved road that runs along the eastern boundary of the Site (08/02/2019).

G-14. View of a depressed area located immediately southeast of the Site in the vicinity of a former oil well (08/02/2019).

G-15. Oil Operators Inc. facility located southeast of the Site (08/02/2019).

G-16. Parking area located in the southern portion of the Site (08/02/2019).

G-17. View of the western adjacent Los Angeles River area (08/02/2019).

G-18. Northern corner of the Site, beyond which is the western adjacent Los Angeles River area, in the vicinity of eight former oil wells (08/02/2019).

G-19. View looking northwest, showing the rail lines that run adjacent to the Site to the northeast (08/02/2019).

G-20. View of a drum containing soil cuttings located on an eastern ajdancet property (08/02/2019).

APPENDIX H

User Questionnaire

ASTM E 1527-13 User Questionnaire

In order to qualify for the protection offered under the EPA All Appropriate Inquiry (AAI) Standard, the **User** (entities seeking to use the ASTM E1527-13 Practice to complete an environmental site assessment of the property; i.e. Lenders and/or Borrowers) must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that AAI is not complete. This information should be the collective knowledge of the entities relying on the Phase I. **Please note that you are not being asked to evaluate the property, but rather to provide your knowledge of information on the property.**

Site Name/Address: 3701 Pacific Pl, Long Beach, CA

Person Interviewed/Title: Chip Brown / Partner Date: 8/14/2019

If known, when was the property initially developed? Not known

If different, when were the current building(s) on the property constructed?_____

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate, see note 1 below) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

Yes ☐ No ☑ If you answer yes, please include an explanation in the space provided below:

_____
_____
_____
_____

2. Activity and land use limitations that are in place on the *property* or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded *land title records* (or judicial records where appropriate, see note 1 below) identify AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed against the *property* under federal, tribal, state, or local law?

Engineering Controls are defined as physical modifications to a site or facility to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water on the property). *Institutional Controls* are defined as a legal or administrative restriction on the use of, or access to, a site or facility to 1) reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or ground water 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.

Yes ☐ No ☑ If you answer yes, please include an explanation in the space provided below:

_____
_____
_____
_____

Note 1 - In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than land title records. In such cases judicial records must be searched for environmental liens and AULs.

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 *property* or nearby properties?
For example, are you involved in the same line of business as the current or former *occupants* of the *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 ☑ If you answer yes, please include an explanation in the space provided below:

4. Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

a) Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?

Yes ☐ No ☑ If you answer no, please include an explanation in the space provided below, including whether the lower purchase price is because contamination is known or believed to be present at the *property*?

The price of the property has been adjusted from what we understand would otherwise be fair market value to account for the property's environmental conditions, potential risks to an owner that may be associated with such conditions, and possible response actions that a new owner may need to undertake to address such conditions.

5. Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *User*:

a. Do you know the past uses of the *property*?

Yes ☑ No ☐

b. Do you know of specific chemicals that are present or once were present at the *property*?

Yes ☐ No ☑

c. Do you know of spills or other chemical releases that have taken place at the *property*?

Yes ☐ No ☑

d. Do you know of any environmental cleanups that have taken place at the *property*?

Yes ☑ No ☐

If you answered yes to any of the questions above, please include an explanation in the space provided below:
We understand from available records that from the1920s until the 1960s or 1970s the property was used as a an oil brine treatment facility. A partial “cleanup/treatment” apparently took place in the 1970s and involved removal, treatment, and replacement of sump materials. We also understand land farming took place on the property in 1980s and was used as a driving range in the 2000s.

6. The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property,* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

Yes ☑ No ☐ If you answer yes, please include an explanation in the space provided below:

We understand the materials from the oil brine treatment facility are still located on the property.

Please provide the following property contact information:

Property Owner: Mark Pender Phone Number: 818 519 6248

Key Site Personnel: _____ Phone Number: _____

Past Owner: _____ Phone Number: _____

Regulatory Records Documentation

SCHLUMBERGER ELECTRICAL LOGS

COMPANY ESSO EXP. & P. A.G.L. Properties Ltd. Sprat 1
WELL No. Sprat 1 Well Identification
FIELD Tuna Rig Rev. 13m Drlg.
AREA Vic. County

Log first depth 3000 ft. Sea level
Log last depth 1000 ft. Derrick floor
Max. depth reached by bore-hole 3000 ft.
Max. temp. measured by w.l. 97 °F at 3000 ft.
Equip. no. and loc. 1 Sch. Melb.

Recorded by Sch. Melb.
Witnessed by Messrs. Hall

Date 6.12.67
Run No. One
Type log Induction Electrical
Depth-driller 3000 ft.
Depth-logger 3000 ft.
Bottom logged interval 3000 ft.
Top logged interval 1000 ft.
Type fluid in hole Gel-Chem
Salinity, ppm Cl 2,000
Density 10.0 lb/gal
Level Full
Max. rec. temp. deg. F. 97 °F
Equipment no. and location 1 Sch. Melb.
Recorded by Sch. Melb.
Witnessed by Messrs. Hall

MUD CHARACTERISTICS

NATURE Gel-Chem
DENSITY 10.0 lb/gal
VISCOSITY 50
FLUID LOSS 6.4 cc
LEVEL Full

DIAMETER OF HOLE

Bit #1 8.5" to 3000'

REMARKS

Declinat. 20°

SCHLUMBERGER ELECTRICAL LOGS

COMPANY ESSO EXP. & P. A.G.L. Properties Ltd. Sprat 1
WELL No. Sprat 1 Well Identification
FIELD Tuna Rig Rev. 13m Drlg.
AREA Vic. County

Log first depth 3000 ft. Sea level
Log last depth 1000 ft. Derrick floor
Max. depth reached by bore-hole 3000 ft.
Max. temp. measured by w.l. 97 °F at 3000 ft.
Equip. no. and loc. 1 Sch. Melb.

Recorded by Sch. Melb.
Witnessed by Messrs. Hall

Date 6.12.67
Run No. One
Type log Induction Electrical
Depth-driller 3000 ft.
Depth-logger 3000 ft.
Bottom logged interval 3000 ft.
Top logged interval 1000 ft.
Type fluid in hole Gel-Chem
Salinity, ppm Cl 2,000
Density 10.0 lb/gal
Level Full
Max. rec. temp. deg. F. 97 °F
Equipment no. and location 1 Sch. Melb.
Recorded by Sch. Melb.
Witnessed by Messrs. Hall

MUD CHARACTERISTICS

NATURE Gel-Chem
DENSITY 10.0 lb/gal
VISCOSITY 50
FLUID LOSS 6.4 cc
LEVEL Full

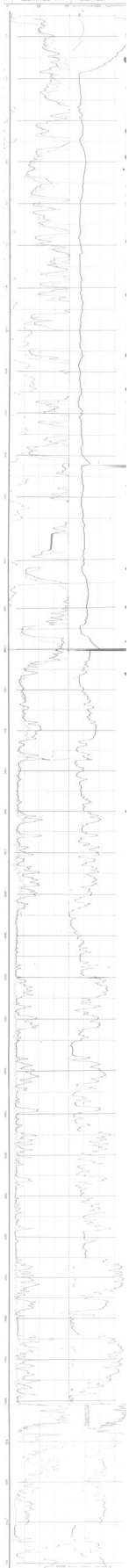
DIAMETER OF HOLE

Bit #1 8.5" to 3000'

REMARKS

Declinat. 20°

DEPTH RESISTIVITY LOG ohms m²/m POROSITY LOG %



SCHLUMBERGER
WELL SURVEYING CORPORATION

APR 3 - 1941

279

COMPANY: C.R.G. Properties, Ltd.

FIELD:

WELL: Nuleu 8-1 (037-06415) ~~"Oil Operators" 4~~

SEC. 13 Sec. 13-4S-13W.

COUNTY: Los Angeles STATE: CALIFORNIA

ELEV.: 60

LONG BEACH

COMPANY: UNION OIL CO.

FIELD: Long Beach

WELL: Oil Operators #4

COUNTY: Los Angeles

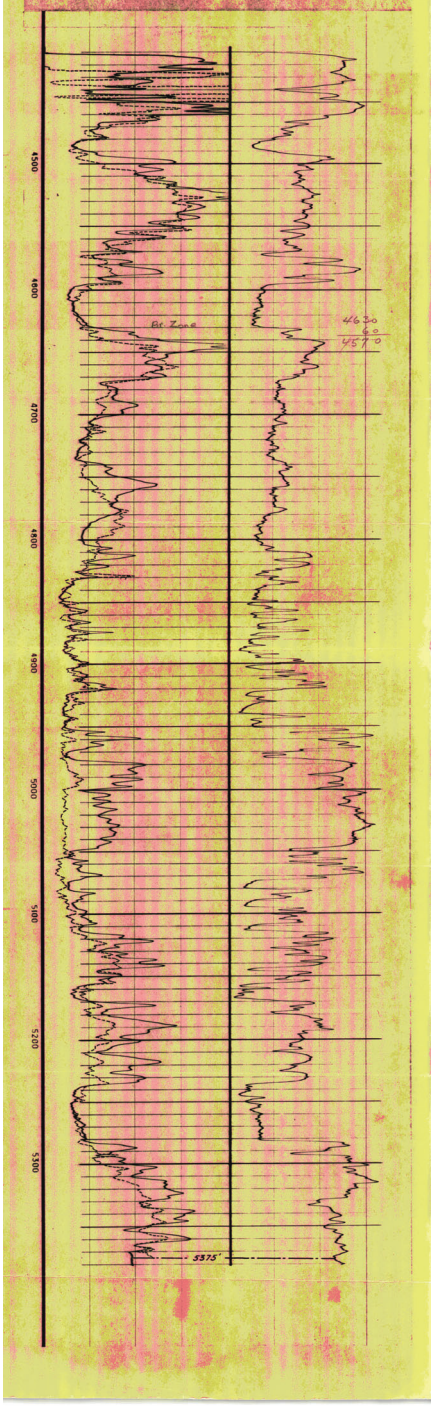
RUN	1-D	2	3	4	5
Date	4-2-41				
Csg. shoe	4408'				
Total depth	5379'				
Depth rchd	5375'				
Ft. Meas.	965'				
Mud Nat.	Natural				
Dens	74				
Visc	41				
Res	4.0 @ 74.0°				
Max. Temp.					
Meas. from					
Tension	2000#				
Rig Time	4 hrs.				
Mileage	10				
Observer	R.Forsythe				
Witnessed by	Mr. H. Winter				

DIAMETER OF HOLE
5-5/8" to 5379'

REMARKS
Device: Standard

Mud sample taken while drilling at 5374' (1 only)

DEPTH | RESISTIVITY (NORMAL CURVE, THIRD CURVE) 0 ← ohms m²/m → 30 | SELF-POTENTIAL ← 100 millivolts →



PACIFIC PROCESS SYSTEMS, INC.
Ph: 661.589.8844
Fax: 661.589.8330

Temperature Survey

WELL: B-4

COMPANY: CRG Properties, LTD.
FIELD: Long Beach
COUNTY: Los Angeles STATE: CA

WELL DATA

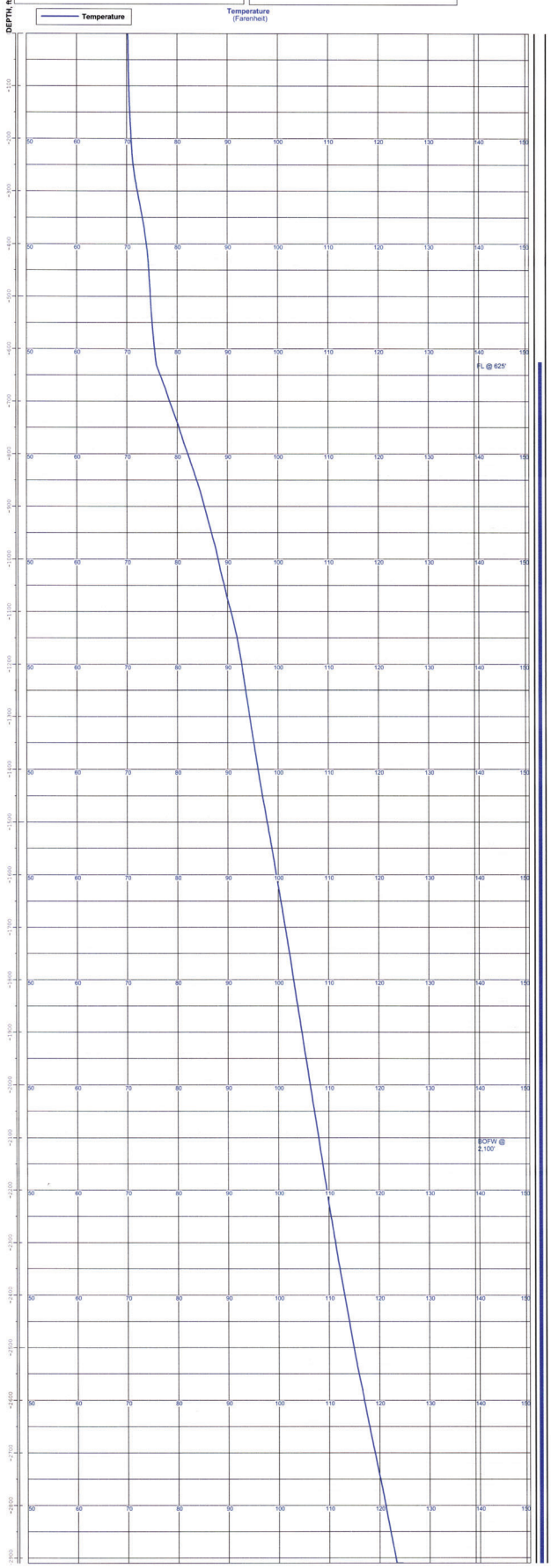
DATE: 4-26-2005
TYPE LOG: TEMP
TOTAL DEPTH:
GDA: 2,910'
TOP LOGGED INTERVAL: 0'
FLUID LEVEL: 625'
PKR DEPTH:
PLUG BACK DEPTH:
RECORDED BY: John Reece

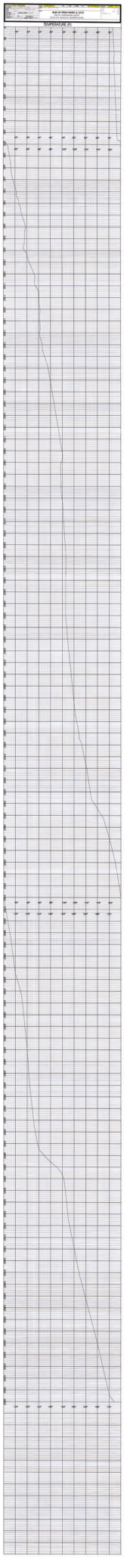
CASING: 8.625"
TUBING:
TOP PERFORATION: 4,435'
BOFW: 2,100'
LINE SPEED: 30 ft/min
DF above Mat:
API: 03706415

EQUIPMENT AND TEST DATA

PRESSURE TBG psi:
PRESSURE CSG psi: 11
WELL STATUS: Static
TRUCK No: 1
TOOL SIZE: 1 1/4"

TOOL DATA
CALIBRATED TEMP RANGE:-0.9-253.9deg F
ACCURACY RESOLUTION: 0.25% FS
RESOLUTION: 0.002% FS
COMMENTS: MAX BH TEMP 124.56 F




TEMPERATURE (F)

EM

DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

REPORT OF WELL ABANDONMENT

Cypress, California
August 28, 2015

Mr Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your report of abandonment of well **"Nwlbu" 8-4**, A.P.I. No. **037-06415**, Section **13**, T. **04S**, R. **13W**, **SB** B.&M., **Long Beach** field, **Los Angeles** County, dated **2/9/2014**, received **3/6/2014**, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records.

NOTE: 1. Surface plugging completed on 2/11/2014.

2. Site inspection made and approved on 3/21/2014.

3. This well has been abandoned in compliance with Division permit number 113-0597 issued on 7/19/2013.

Blanket Bond

Steven Bohlen
State Oil and Gas Supervisor

EM:vm

cc:

By
Daniel J. Dudak, *District Deputy*

OG159

NATURAL RESOURCES AGENCY OF CALIFORN
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

No. T **115-0587**

REPORT ON OPERATIONS

Mr Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Cypress, California
July 13, 2015

Your operations at well **"Nwlbu" 8-4**, A.P.I. No. **037-06415**, Sec. **13**, T. **04S**, R. **13W**, **SB** B.&M., **Long Beach** field, in **Los Angeles** County, were witnessed on **2/11/2014**, by **Michael Okafor**, a representative of the supervisor.

The operations were performed for the purpose of **plugging and abandonment**.

DECISION: **APPROVED**

NOTE: The required Class II2M blowout prevention equipment was inspected and approved on **1/23/2014**.

DEFICIENCIES NOTED AND CORRECTED: None

EXPIRED
CANCELLED
MAILED
EMAILED

MO/epm

Steven Bohlen
State Oil and Gas Supervisor

By
For Daniel J. Dudak, *District Deputy*

OG109 (Rev. 10/2011)

FRM 7/13/2015

115-0587

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CEMENTING/PLUGGING MEMO

Operator C.R.G Properties Well No. "Nwlbu" 8-4

API No. 037-06415 Sec. 13 T. 4S R. 13W , SB B&M

Field Long Beach , County Los Angeles . On 2/11/15 ,

Mr. / Ms. Michael N. Okafor representative of the supervisor, was present from 1000 to 1200 .

There were also present

Casing record of well: 18 5/8" cem 50'; 13 3/8 cem 757'; 8 5/8" cem 4005' WSO, drilled thru 3165', cp 2465', pulled fr 220'; 5-1/2" cem 3017'- 5924', perf 4375' WSO, perfs 5712'-5776'. TD (present hole) 5925'. Plugged w/cem 5925'-2805', w/245 cf cem below 2217', w/cem 2217'-2117'±, 210'-0.

The operations were performed for the purpose of: Abandon (1)

☒ The plugging cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ ' are approved.

Hole size: 17 " fr. 50 ' To 757 ', 12 1/4 " to 4005 ' & 7 5/8 " To 5925 '

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
5-1/2"	15.5#	3017'	5924'	1/17/14	T@ 5878'	446cf	5878'	2805'	0	400 psi	Prod perfs
8-5/8"	32/36#	0	4005'	1/29/14	T@ 2475'	245 cf	2080'	2217'	159 cf	1000 psi	2475'-2465'

Casing/tubing recovered: 8-5/8 " Shot/cut at 220 ', ', ', Pulled fr. 220 ';

" Shot/cut at ', ', ', Pulled fr. '.

" Shot/cut at ', ', ', Pulled fr. '.

Junk (in hole):

Hole fluid (bailed to) at '. Witnessed by

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer
80/30	1/28/14	25	2805'		2400	C.L.Cullum
72/30	1/30/14	120	2117		100	J. Collender

Note: BOPI Class IIM 1/23/14 CLC c/o 5875'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
1/27/2014	446 cf	T@ 5875'	1000	C.L.Cullum	2805'	3000#	1/28/14 0715	C.L.Cullum
1/29/2014	245 cf	T@ 2475'	0800	Z. Amilhussin	2217'	3000#	1/30/14 0910	J. Collender
1/30/2014	34 cf	T@ 2217'	1100	J. Collender	2117±	----	-----	-----
2/3/2014	225 cf	T@ 210'	1100	C. Wicker	20'	ATW	2/10/14 1400	P. Kaufman
2/10/2014	23 cf	T@ 20'	1530	P. Kaufman	0	----	2/11/14 1200	M. Okafor

CONTRACTOR:

allenco

UNCORRECTABLE DEFICIENCIES:

None

DEFICIENCIES NOTED AND CORRECTED:

None

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	**C.R.G. Properties,LTD**	Well: **NWLBU 8-4**
API#:	**037-06415**	Sec. **13**, T. **4S**, R.**13W**. S. B. B. & M.
County:	**Los Angeles**	Field: **Long Beach**

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	**3/6/2014 (2)**
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Date final records received.	
Electric Logs:	
Other:	

STATUS

Active	☐	Drilling	☐
Abandoned	☐	Idle	☐
Reabandoned	☐	Other	☐

WELL TYPE

Oil	☐	Waterflood	☐
Gas	☐	Water Disposal	☐
Water Source	☐	Cyclic Steam	☐
Observation	☐	Steam Flood	☐
Exploratory	☐	Fire Flood	☐
Dry Hole	☐	Other	☐

EFFECTIVE DATE: 2-12-14

REMARKS:

	ENGINEERS CHECK LIST	CLERICAL CHECK LIST
☐	Summary, History & Core Record (Dupl.)	Location change
☐	Electric Log	Elevation change
☒	Operator's Name	Form OGD121
☒	Signature	Form OGD150b (Release of Bond)
☒	Well Designation	Duplicate logs to archives
☐	Location	Notice of Records Due
☐	Elevation	EDP
☒	Notices	District Date Base
☐	"T" Reports	Final Letter (OG159) 8/26/15 vm
☐	Casing Record	Update Center
☒	Plugs	
☐	Directional Survey	
☒	Production/Injection (FAP Codes: 4/2/03/00)	
☐	E Well on Prod., enter EDP	**FIELD CHECK LIST**
☒	Surface Inspection Required 3/21/14 ABOK	Date Surface Inspection Completed: 3/21/14 - AB
☐	Surface inspection Waived (Island)	Other:
☐	Well site restoration deferred (common cellar)	
☒	Final Letter Required AB: ☒ REAB: ☐	
☐	Other:	

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	*(Signature)* 7/28/15
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator C.R.G. Properties, LTD Field Long Beach County Los Angeles
Well "NWLBU" 8-4 Sec. 13 T. 04S R. 13w sbB.&M.
A.P.I. No. 037-06415 Name Mick Beyer (Person submitting report) Title Operations Manager (President, Secretary, or Agent)
Date 02-09-14 (Month, day, year)
Signature Mr. B
Address 2109 Gundry Ave. Signal Hill, Ca. 90755 Telephone Number 562 989-6100

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

01-23-14	M.I.R.U. – Installed and tested BOPE–Witnessed by C. Cullumr w/DOGGR - Secured Well
01-24-14	R.I.H. W/5 ½" Scraper on 2 7/8" Tubing tagged fill at 5850' - Circ.with water w/returns of oily water and gas - P.O.H. - Witnessed by E. Tabor w/ DOGGR – Secured well
01-27-14	R.I.H.W/Tbg. Tagged at 5875' - Mixed and pumped 446 cu/ft. (391 sxs) class G cement Witnessed by Z. Amilhussin w/DOGGR - Secured well.
01-28-14	R.I.H. Tagged cement at 2805' – Pumped 25 bbls. 73# mud Prs. Tested casing at 500 psi good P.O.H. R.I.H. W/ 8 5/8" scraper to 2800' – P.O.H. – R.I.H. W/CBL – Perforated from 2475' to 2465' – P.O.H. Witnessed by C. Cullum w/DOGGR – Secured well
01-29-14	R.I.H. w/tbg.tail at 2475' mixed and pumped 245 cu/ft.(215 sxs) class G cement – Squeezed away 134 cu/ft prs. At 1000 psi. – Witnessed by Z. Amilhussin w/ DOGGR - secured well
01-30-14	R.I.H. Tagged cement at 2217' = 67' low – Pumped 120 bbls. 73# mud – prs. Tested csg. 500# good – mixed and pumped 34 cu/ft.(30 sxs) class G cement – P.O.H.- R.I.H. Cut 8 5/8" at 220' Witnessed by J. Collender w/DOGGR –secured well
01-31-14	Removed B.O.P.E. Pulled 220' of 8 5/8 " casing – Witnessed by Z. Amilhussin w/DOGGR – secured well
02-03-14	R.I.H. W/tbg. Tail at 210' mixed and pumped 225 cu/ft.(197 sxs) class G cement – cement to surface – P.O.H.- Witnessed by C. Collum w/DOGGR – R.D.M.O.
02-10-14	Dug down around well and cut casing 5' below surface – Topped off surface plug w/ 23 cu/ft.(20sxs) class G cement Witnessed by P. Kaufman w/DOGGR – Secured well
02-12-14	Z. Amilhussin w/DOGGR witnessed surface tag and welding of I.D.Plate - Backfilled well location - Job complete.

DOGGR
Received
MAR - 6 2014

API No. 037-06415 D ION OF OIL, GAS, AND GEOTHERMAL RE IRCES T

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator C.R.G. Properties, LTD Well "NWLBU" 8-4 Sec. 13 T. 4S R. 13W
Field Long Beach County L.A. Spud Date

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	1/23/14	Callie L. Cullum	(1515 to 1530)		
2nd			(to)		

Contractor Allenco Rig # 2 Contractor's Rep. & Title Derick Beyer, Driller (Allenco)
Casing record of well: memo

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☒ N ☐
DECISION: The blowout prevention equipment and its installation on the 8 5/8 " casing are approved.

Proposed Well Opns: Abandonment . MACP: psi
Hole size: " fr. ' to ', " to ' & " to '

REQUIRED BOPE CLASS: II3M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus
8 5/8"	32#		1262'				

BOP STACK

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul
Rd	2 7/8	Townsend	81	9	3M	
Rd	CSO	Townsend	81	9	3M	

TEST DATA

Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
1						
1						

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure psi
Total Rated Pump Output gpm Fluid Level
Distance from Well Bore 25 ft. ok

	Accum. Manufacturer	Capacity	Precharge
1		gal.	psi
2		gal.	psi

CONTROL STATIONS

		Elec.	Hyd.	Pneu.
	Manifold at accumulator unit			
	Remote at Driller's station			
	Other: hand pump		x	

EMERG. BACKUP SYSTEM

				Press.	Wkg.Fluid
	N_2 Cylinders	1	L= 55 "	1825 psi	4 gal.
	Other:	2	L= "		gal.
		3	L= "		gal.
		4	L= "		gal.
		5	L= "		gal.
		6	L= "		gal.
			TOTAL: 4		gal.

HOLE FLUID MONITORING EQUIPMENT

		Alarm Type		
		Audible	Visual	Class
	Calibrated Mud Pit			A
	Pit Level Indicator			B
	Pump Stroke Counter			
	Pit Level Recorder			
	Flow Sensor			C
	Mud Totalizer			
	Calibrated Trip Tank			
	Other:			

TOTAL: 2

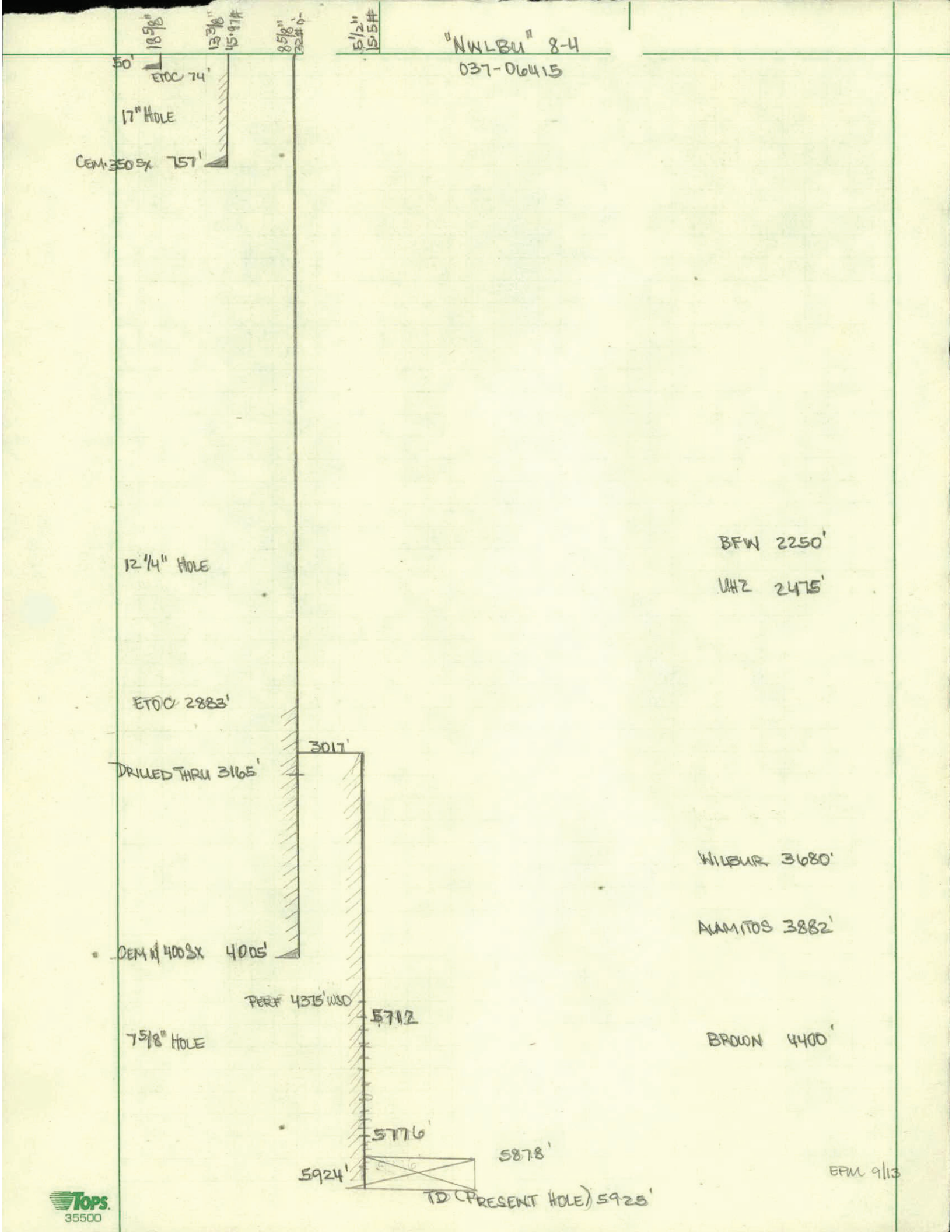
AUXILIARY EQUIPMENT

		No.	Size (in.)	Rated Press	Connections: Weld	Connections: Flange	Connections: Thread	Test Press.
	Fill-up Line							
x	Kill Line		2	3M			X	
x	Control Valve(s)	3		3M			X	
	Check Valve(s)							
	Aux. Pump Cnnct.							
	Choke Line							
	Control Valve(s)							
	Pressure Gauge							
	Adjstble Choke(s)							
	Bleed Line							
	Upper Kelly Cock							
	Lower Kelly Cock							
	Standpipe Valve							
	Stndpipe Pres. Gau.							
x	Pipe Safety Valve		27/8	3M				
	Internal Preventer							

Hole Fluid Type	Weight	Storage Pits (Type & Size)
no fluid has been added		70 bbl Mud Tank
(fluid in well unknown)		2,500 bbl storage tanks

REMARKS AND DEFICIENCIES: two of the valves on the kill line need handles.

OGD9 (9/06)


18 5/8"
13 3/8" 54.5#
8 5/8" 32#
5 1/2" 15.5#
"NWLBU" 8-4
037-06415
50'
ETOC 74'
17" HOLE
CEM. 350 SX 757'
12 1/4" HOLE
BFW 2250'
UHZ 2475'
ETOC 2883'
3017'
DRILLED THRU 3165'
WILBUR 3680'
ALAMITOS 3882'
CEM W/ 400 SX 4005'
PERF 4375' WSO
5712'
7 5/8" HOLE
BROWN 4400'
5776'
5878'
5924'
TD (PRESENT HOLE) 5925'
EPM 9/13
TOPS
35500

NATURAL RESOURCES AGENCY OF CALIFOR
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5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 113-0597

Old	New
412	412
FIELD CODE	
03	03
AREA CODE	
00	--
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PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL
CORRECTED COPY

Cypress, California
July 19, 2013

Mr Mark Pender, Agent
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your proposal to **Abandon** well **"NWLBU" 8-4**, A.P.I. No. **037-06415**, Section **13**, T. **04S**, R. **13W**, **SB** B. & M., **Long Beach** field, **Northwest Extension** area, **Brown** pool, **Los Angeles** County, dated **7/10/2013**, received **7/10/2013** has been examined in conjunction with records filed in this office.

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. Class **II3M,** with hydraulic controls, during **abandonment** operations.
   b. 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. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of **72** lbs/cu.ft and a minimum gel shear strength of **25** lbs./100 sq. ft.
5. The proposed cement plug from **5878'** to **3480'** shall extend from **5878'** to at least **2817'**.
6. Prior to shooting any perforations braidenhead squeezes, a pressure test of the **8-5/8"** casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
7. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83.
8. All casing must be removed from between 5' and 10' below ground level.
9. Well site restoration shall be completed within 60 days following the completion of plugging operations.
10. No program changes are made without prior Division approval.
11. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.

(Continued on page 2)

No Bond Required Bond
cc: Update
EDP
AllenCo.
DOGGR – Dist. 1 (Cypress)

Tim Kustic
State Oil and Gas Supervisor

Engineer Ellen Plaza Moser
Office (714) 816-6847

By _____
For: Daniel J. Dudak, *District Deputy*

EPM/epm

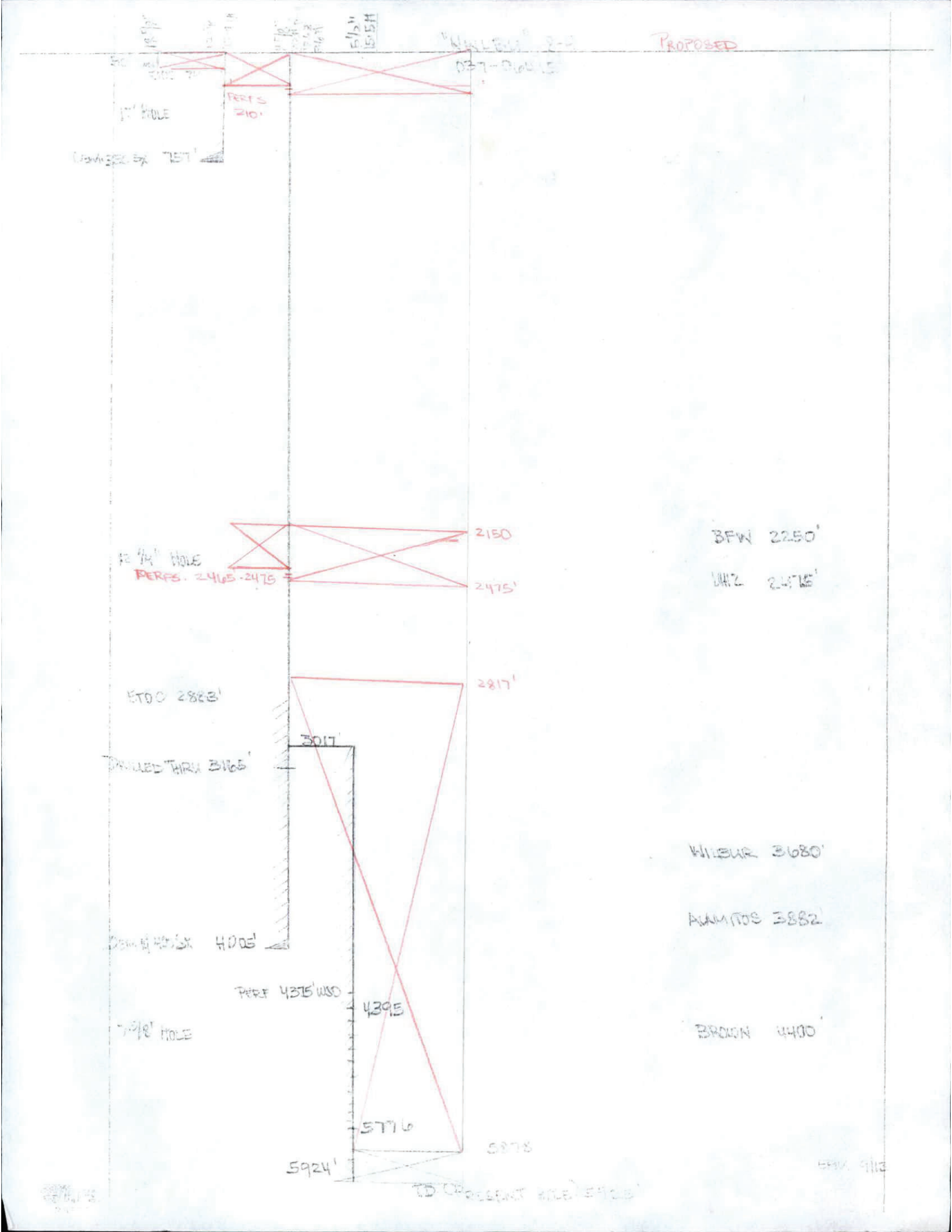
A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

b. Witness the clean-out depth at **5878'**.
c. Witness the placing, location and hardness of the cement plug from **5878'** to **2817'**.
d. Witness the mudding operations.
e. Witness a pressure test of the **8-5/8"** casing.
f. Witness the cement squeeze through the **perforations** at **2465'** or through a retainer or packer (if casing integrity is not demonstrated).
g. Witness the placing, location and hardness of the cement plug from **2475'** to **2150'**.
h. Witness the cement squeeze through the **perforations** at **200'** through a retainer or packer (if casing integrity is not demonstrated).
i. Witness the placing, location and hardness of the cement plug from **210'** to **surface'**, including all annular spaces.
j. Inspect the restored well site.

NOTE:

1. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
2. The well abandonment history (History of Oil or Gas Well - form OG103), must include a description of the removal or abandonment of the well flowline and any associated piping.
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 operator shall isolate the following zones:
   a. **Base of the Freshwater Sand at 2250'.**
   b. **Top of the Upper Gas Zone at 2475'.**
   c. **Top of the Wilbur Zone at 3680'.**
   d. **Top of the Alamitos Zone at 3882'.**
   e. **Top of the Brown Zone at 4400'.**

   Failure to achieve adequate zonal isolation may have negative impacts on current and future operations. In addition, failure to achieve adequate zonal isolation will also be noted on the Report of Operations (OG 109).


PROPOSED
PERFS 210'
17' HOLE
757'
2150
BFW 2250'
12 1/4" HOLE
PERFS. 2465-2475
2475'
2817'
ETOC 2883'
3017'
DRILLED THRU 3165'
WILBUR 3680'
ALAMITOS 3882'
4005'
PERF 4375' WSO
4395
7 7/8" HOLE
BROWN 4400'
5776
5878
5924'
TD CRESENT HOLE

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CRITICAL WELL

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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. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of **72** lbs/cu.ft and a minimum gel shear strength of **25** lbs./100 sq. ft.
5. Prior to shooting any perforations braidenhead squeezes, a pressure test of the **8-5/8"** casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
6. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83.
7. All casing must be removed from between 5' and 10' below ground level.
8. Well site restoration shall be completed within 60 days following the completion of plugging operations.
9. No program changes are made without prior Division approval.
10. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
    b. Witness the clean-out depth at **5878'**.

(Continued on page 2)

No Bond Required Bond
cc: Update
EDP
AllenCo
DOGGR – Dist. 1 (Cypress)

Tim Kustic
State Oil and Gas Supervisor

Engineer Ellen Plaza Moser
Office (714) 816-6847

By _____
For: Daniel J. Dudak, *District Deputy*

EPM/epm

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.

c. Witness the placing, location and hardness of the cement plug from **5878'** to **3480'**.
d. Witness the mudding operations.
e. Witness a pressure test of the **8-5/8"** casing.
f. Witness the cement squeeze through the **perforations** at **2465'** or through a retainer or packer (if casing integrity is not demonstrated).
g. Witness the placing, location and hardness of the cement plug from **2475'** to **2150'**.
h. Witness the cement squeeze through the **perforations** at **200'** through a retainer or packer (if casing integrity is not demonstrated).
i. Witness the placing, location and hardness of the cement plug from **210'** to **surface'**, including all annular spaces.
j. Inspect the restored well site.

NOTE:

1. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
2. The well abandonment history (History of Oil or Gas Well - form OG103), must include a description of the removal or abandonment of the well flowline and any associated piping.
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 operator shall isolate the following zones:
   a. **Base of the Freshwater Sand at 2250'.**
   b. **Top of the Upper Gas Zone at 2475'.**
   c. **Top of the Wilbur Zone at 3680'.**
   d. **Top of the Alamitos Zone at 3882'.**
   e. **Top of the Brown Zone at 4400'.**

   Failure to achieve adequate zonal isolation may have negative impacts on current and future operations. In addition, failure to achieve adequate zonal isolation will also be noted on the Report of Operations (OG 109).

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

OIL, GAS & GEOTHERMAL

P# 113-06597

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
BB	7/13/13	7/10/13	DG

NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☒ / re-abandon ☐ well "Nwlbu" 8-4 , API No. 037-06415 ,
(Check one)

Sec. 13 , T. 4s , R. 13w , S.B. B.&M., Long Beach Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)
See Attachment

The total depth is: 5925 feet. The effective depth is: 5878 feet.

Present completion zone(s): see attachment (Name). Present zone pressure: N/A psi.

Oil or gas shows: see attachment (Name and depth) feet. Depth to base of fresh water: 2250 feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): see attachment (Depth of interval) feet.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes☒ No☐

The proposed work is as follows: (A complete program is preferred and may be attached.)
See Attachment.

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
C.R.G. Properties, Ltd			
Address: 2109 GUNDRY AVE.		City/State: SIGNAL HILL	Zip Code: 90755
Name of Person Filing Notice: MICK BEYER	Telephone Number: 562 989-6100	Signature: M. B	Date: 07-10-13
Individual to contact for technical questions: MICK BEYER	Telephone Number: 310 505-9787	E-Mail Address: Mbeyer@allencoca.com	

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

DOGGR Received – JUL 10 2013 to Elox 7/10/13

OG108 (1/09)

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

C.R.G. Properties, Ltd. Well "Nwlbu" 8-4 (037-06415), Sec.13, Twn. 4S, Rge. 13W, S.B. B&M, Long Beach Oil Field

According to Division records, the present condition of the well is as follows:

1. **Location:** See map Exhibit A - Attachment II
2. **Accessibility:**
3. **Status:** Idle deserted
4. **Total Depth:** 5925'. **Effective Depth:** 5878'. **Elevation of Kelly Bushing (KB) above sea level:** 60'.
5. **Casing: 18-5/8"**casing cemented 50'; **13-3/8" 36#** casing cemented 757' with estimated top of cement behind pipe at 124' +/-; **8-5/8"** cemented 4005' with estimated top of cement behind pipe at 2890', WSO; 5-1/2" cemented 3017'-5925'.perfs. 4375' WSO, 5712'-5730', 5734'-5754', 5761'-5776'.
8. **Tubing:** Unknown **Rods:** Unknown
7. **Base of Fresh Water (BFW):** 2250'
8. **Producing Zone(s):** Brown
9. **Hole Fluid:** Unknown
10. **Junk:** Unknown
11. **Plugs:** 5878 to 5925,
12. **Comments:** Top of Brown zone 4400', top of Alamitos zone 3882', top of Wilbur zone 3680', and top of Upper Gas zone 2475'.

The following operations are necessary to plug and abandon the well:

1. A Notice of Intention to Abandon (form OG 108) is to be filed with this Division at least 10 days prior to commencing work. Work is not to begin until a Permit to Conduct Well Operations (Form OG 111) has been issued. All well operations are to be witnessed by a representative of this Division as directed in the Permit to Conduct Well Operations.

2. The abandonment contractor will review job safety programs (JSP) with all crewmembers prior to work startup and/or if conditions change. Monitor well for any leaking gas. Position gas monitors and ventilation fans, if warranted before moving in any other equipment or personnel.

3. Adequate blowout prevention equipment, as defined in Division's publication No. M07, shall be installed and maintained in operating condition at all times. The minimum requirements are:

   a. A 3M rod Reagan or equivalent BOPE for pulling rods and pump operations.
   b. A Class II3M, with hydraulic controls, during abandonment operations.
   c. A 3M lubricator for wire line operations.

4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs/cu.ft and a minimum gel shear strength of 25 lbs. /100 sq. ft. All cement plugs are to have a minimum compressive strength of 1000 psi and maximum liquid permeability of 0.1 md. All depths noted are from the KB.

5. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.

6. Kill well. Install and function test rod Reagan or equivalent BOPE. Pull out of the hole with rods and pump.

EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

7. Remove rod Reagan. Install and function test Class II3M BOPE (function test BOPE each day thereafter).
8. Pull out all production tubing.
9. Use appropriate combination tools to clean out to 5878'.
10. Run in scraper. Scrape the 8-5/8" and 5 ½" casings.
11. Run in hole with tubing (if tag high, clean out fill to 5878').
12. The well shall be plugged with cement from 5878' to 3480'
13. Prior to shooting any perforations for braidenhead squeezes, a pressure test of the casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a packer is required for squeeze operations.
14. The 8-5/8" casing shall be perforated from 2475 to 2465'. Get an injection rate or a breakdown.
15. Sufficient cement shall be squeezed into the perforations to fill to 2150' outside the 8-5/8" casing.
16. The well shall be plugged with cement from 2475' to 2150'.
17. The 8-5/8" casing shall be cut and pulled from 210'.
18. The 13" casing shall be perforated from 210' to 200'. Sufficient cement shall be squeezed into the perforations to fill to surface.
19. The well shall be plugged with cement from 210' to surface.
20. All casing must be removed from between 5' and 10' below ground level.
21. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top of the outer casing.
22. Cellar, production pads and pipelines shall be removed and the resulting excavations filled with earth and compacted properly to prevent settling.
23. Remaining buried pipelines that cannot be removed shall be purged with clean water. Abandon line by pumping approved cement slurry mixture, weld steel cap on both ends of the line and bury.
24. All equipment, casing, or junk that requires removal to implement restoration to lawful conditions shall be removed and properly disposed of in accordance with environmental laws and in accordance with instructions from the Division of Oil and Gas. All liquid wastes shall be removed and properly disposed.
25. A well History (Form OG 103) shall be filed in duplicate with the Division within 60 days of completing the work and must include a description of the removal or abandonment of the well flow line and any associated piping.

DEPARTMENT OF CONSERVATION
Division of Oil, Gas, and Geothermal Resources
5816 Corporate Avenue, Suite 200
Cypress, California 90630
Telephone (714) 816-6847
Facsimile (714) 816-6853

STATE OF CALIFORNIA

NATURAL RESOURCES AGENCY

DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REVISED

FORMAL ORDER TO: PLUG AND ABANDON WELLS & RESTORE LEASE CONDITIONS

NO. 1032

Dated: October 18, 2012

Operator: C.R.G. Properties, Ltd. (C0250)

BY

Tim Kustic

STATE OIL AND GAS SUPERVISOR

DEPARTMENT OF CONSERVATION
Legal Office
801 K Street
Sacramento, California
Telephone (916) 323-6733
Facsimile (916) 445-9916

STATE OF CALIFORNIA

NATURAL RESOURCES AGENCY

DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FORMAL ORDER TO: PLUG AND ABANDON WELLS & RESTORE LEASE CONDITIONS

NO. 1032

Dated: October 17, 2012

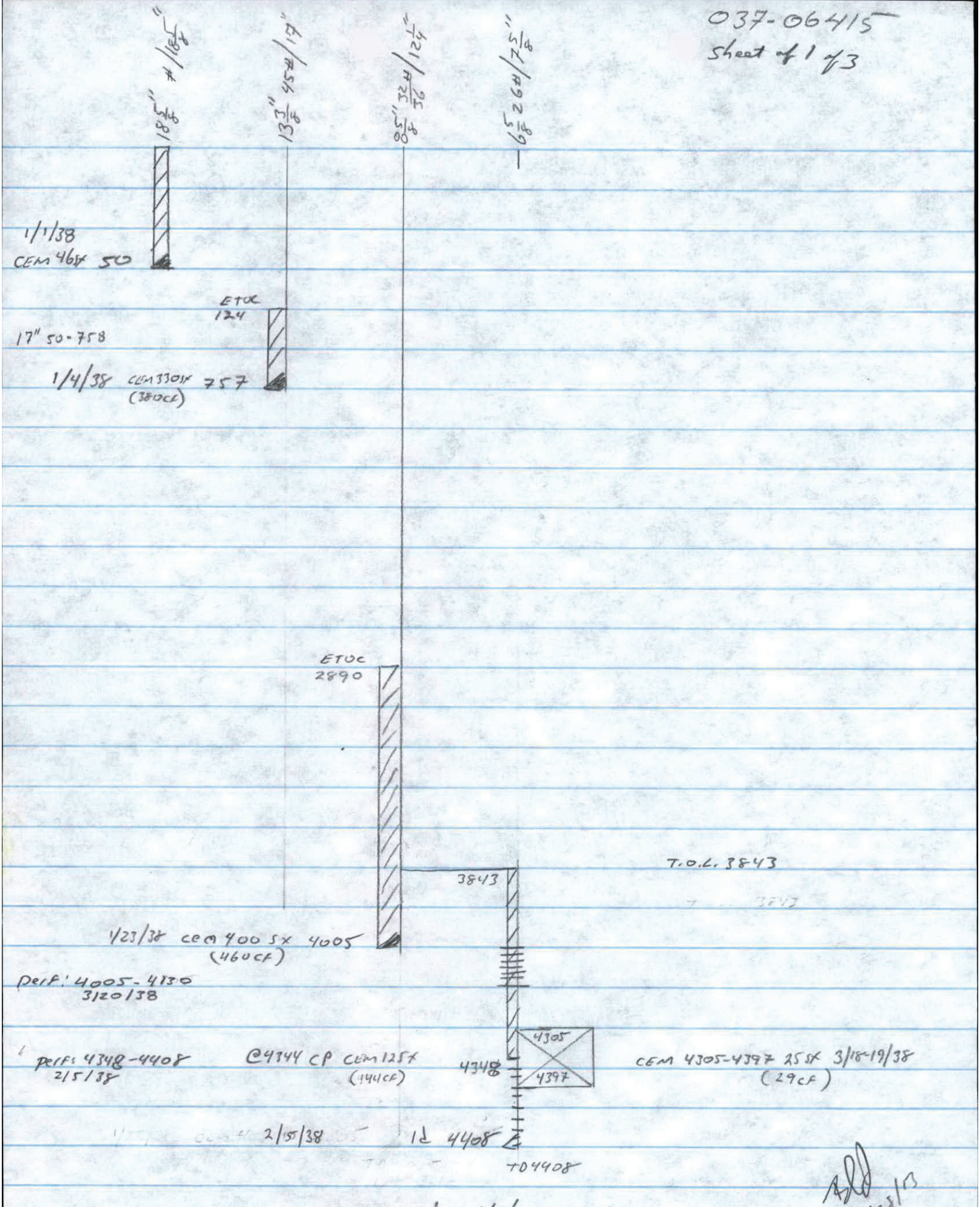
Operator: C.R.G. Properties, Ltd. (C0250)

BY

Tim Kustic

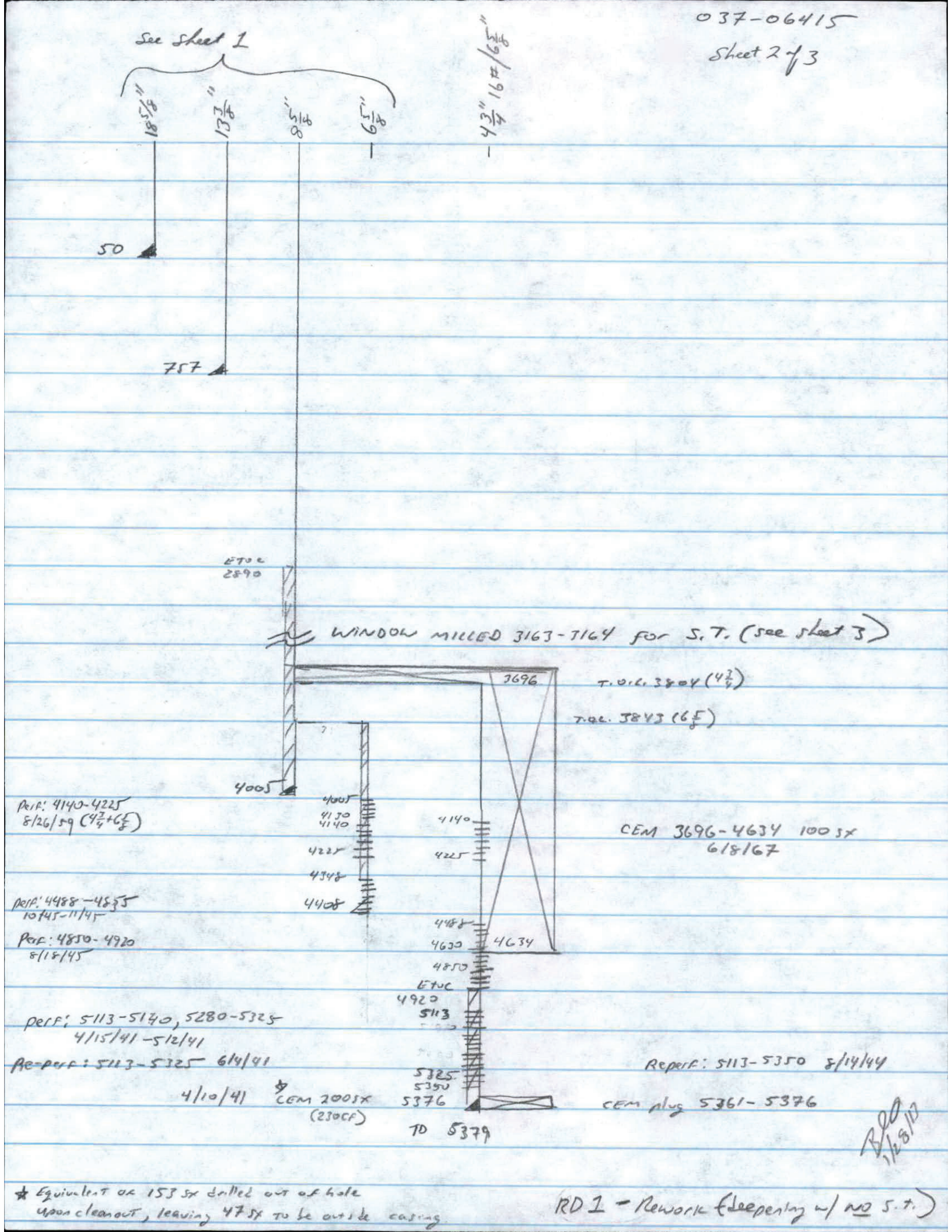
STATE OIL AND GAS SUPERVISOR

037-06415
Sheet of 1 of 3



037-06415

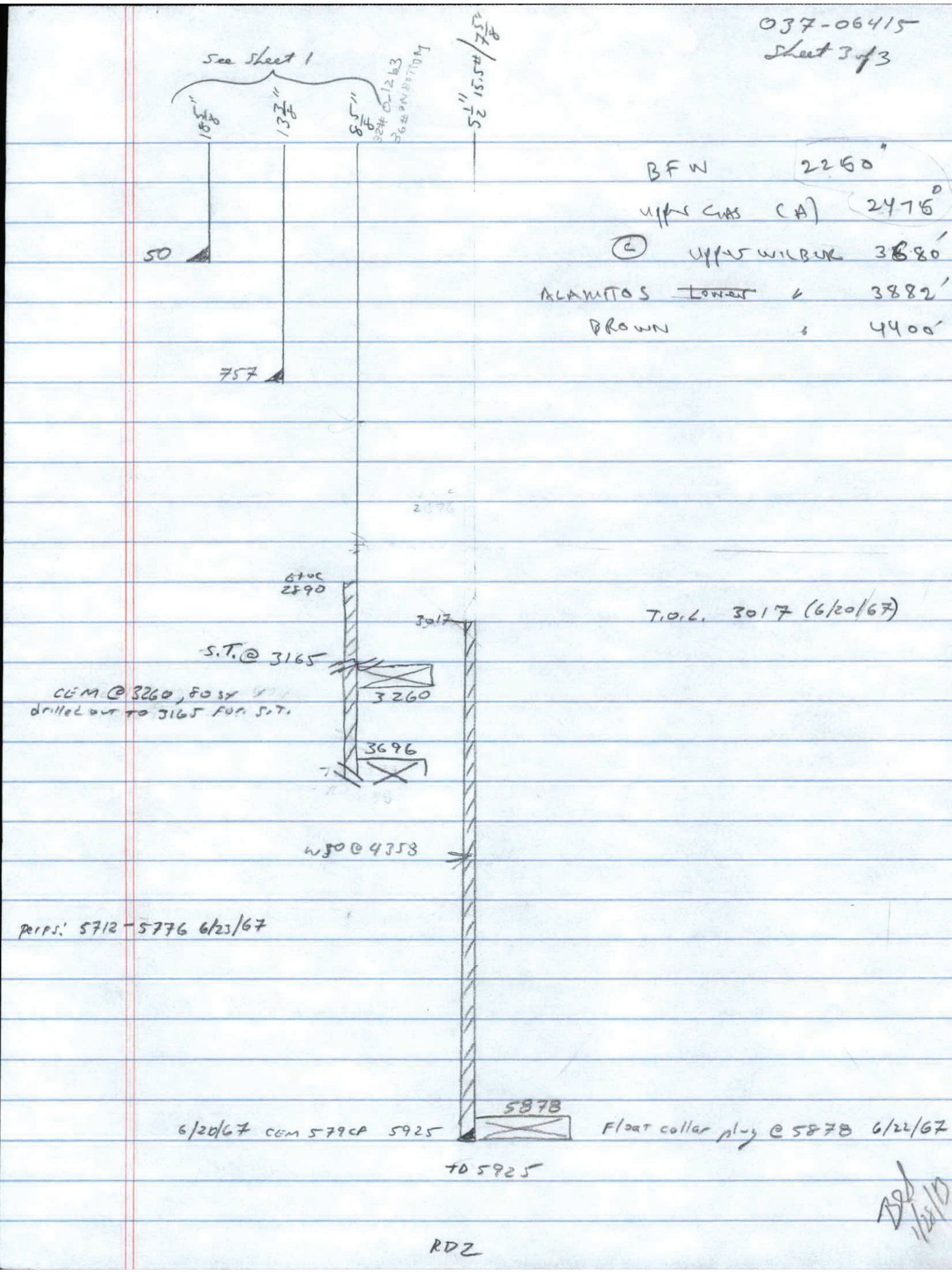
Sheet 2 of 3



★ Equivalent of 153 SX drilled out of hole upon cleanout, leaving 47 SX to be outside casing

RD 1 - Rework (deepening w/ NO S.T.)

037-06415
Sheet 3 of 3



RDZ

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County		District
Long Beach		District 1 (Cypress, California)
Former owner		Date
Pacific Energy Res.	P0252	July 26, 2000

Well Name	API Number	Section Township Range
"Nwlbu" 5-2	037-00397	Sec. 13-4S-13W
"Nwlbu" 5-3	037-09796	Sec. 13-4S-13W
"Nwlbu" 5-4	037-09797	Sec. 13-4S-13W
"Nwlbu" 8-3	037-06496	Sec. 13-4S-13W
"Nwlbu" 8-4	037-06415	Sec. 13-4S-13W
"Nwlbu" 8-7	037-22512	Sec. 13-4S-13W
"Nwlbu" 9-2	037-13525	Sec. 13-4S-13W
"Nwlbu" 9-3	037-09791	Sec. 13-4S-13W
"Nwlbu" 9-4	037-00392	Sec. 13-4S-13W
"Nwlbu" 9-5	037-00142	Sec. 13-4S-13W
"Nwlbu" 9-6	037-00393	Sec. 13-4S-13W

Description of the land upon which the well (s) is (are) located.
See above

Date of transfer	New owner		Type of organization
May 9, 2000		C.R.G. Properties, Ltd. C0250	Corp./Ltd.
	Address:	15332 Antioch Street, Suite 338 Pacific Palisades, CA 90272	Telephone (310) 808-9071
Reported by	OG34A received 6/2/2000 signed by both parties		
Confirmed by	Same as above		
New operator new status **PA**	Designation of Agent Mark Pender		
Old operator new status **PA**	Remarks See operator file for C.R.G. Properties, Ltd. for details		

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active

NPA- No potential, Active

PI- Potential Inactive

NPI-No potential, Inactive

Ab-Abandoned or No More Wells

cc: Update; Envir Dsk; File
Conservation Committee
Harold W. Bertholf, Inc.
LA County Assessor
Sacramento EDP
Cypress EDP

Deputy Supervisor
R. K. Baker

Signature
Floyd M. Leeson
Operations Engineer

FORM AND RECORD CHECK LIST

Form or Record	Initials	Date	Form or Record	Initials	Date
Form OGD121	N/A		Map and Book		
Operator Card			Notice cancellations	N/A	
Well Records	SR	7/27/2000	Bond Status BB/FML	SR	7/26/2000
Log Records	SR	7/31/2000	EDP	SR	7/27/2000
Production Repts	N/A		Data Base	SR	7/27/2000

WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY ~~CORP~~ Resources
SEE OGD156 DATED 5-13-94

FORM OGD156 (5-80)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county	District
Long Beach	1
Former owner	**Date**
Sun Exploration & Production Co.	June 15, 1983

Name and location of well(s)

Sec. 13-4S-13W S.B.B.&M.

NWLBU 5-1 (037-09795)	NWLBU 8-1 (037-09792)	NWLBU 9-3 (037-09791)
NWLBU 5-2 (037-00397)	NWLBU 8-2 (037-09793)	NWLBU 9-4 (037-00392)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)	NWLBU 9-5 (037-00142)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)	NWLBU 9-6 (037-00393)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)	
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)	

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange	New owner / Address	Type of organization / Telephone No.
May 1, 1983	Petro Resources, Inc. 4200 Easton Drive, Suite 16 Bakersfield, CA 94309	Corp. 805/323-4118

Reported by
Letter from Sun Exploration & Production Co. dated 5-16-83.

Confirmed by
Letter form Petro Resources, Inc., dated 5-18-83.

New operator new status (status abbreviation)	Request designation of agent
PA	Joe D. Rose, same address.
Old operator new status (status abbreviation)	**Remarks**
PA	

Deputy Supervisor: V. F. Gaede

Signature: Richard L. Mansell

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121	CP	7-7-83	Map and book	137 ✓	7/12/83
Form OGD140	NONE		Notice to be cancelled		
New well cards	CP	7-7-83	Bond status		
Well records	CP	7-7-83	EDP files	Update	
Electric logs	CP	7-7-83	Conservation Committee		
Production reports			L. A. Assessors		

Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.

1-1-82, Form 156 dated 1-21-82. See ownership file.

FORM 157

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

DEAR SIR:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R 13W, S.B B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

> "° ° ° The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

Old Designation		API	New Designation
"Oil Operators"	1 (See)	037-09792	NWLBU 8-1
" "	2	037-09793	NWLBU 8-2
" "	3	037-06496	NWLBU 8-3
" "	4	037-06415	NWLBU 8-4
"Pool"	1	037-09795	NWLBU 5-1
"	2	037-00397	NWLBU 5-2
"	3	037-09796	NWLBU 5-3
"	4	037-09797	NWLBU 5-4
"Amebco"	1	037-09788	NWLBU 6-1
"	2	037-09789	NWLBU 6-2
"Flood Control"	2	037-13525	NWLBU 9-2
" "	3	037-09791	NWLBU 9-3
" "	4	037-00392	NWLBU 9-4
" "	5	037-00142	NWLBU 9-5
" "	6	037-00393	NWLBU 9-6

Mag. 137 & Book pmc 11/2/79

M. G. Mefford

JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

By Richard W. Stoll for
Acting Deputy Supervisor
R. A. Ybarra

RWS:sc

cc: Update Center
EDP
Conservation Committee

87998-705 11-71 3M ① OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county: Long Beach	District: 1
Former owner: General Exploration Co.	Date: February 15, 1979

Name and location of well(s)

Sec. 11-4S-13W

"Dominguez" 2-10 (037-11859)

Sec. 13-4S-13W

"Amebco" 1 (037-09788)
"Amebco" 2 (037-09789)
"Flood Control" 2 (037-13525)
"Flood Control" 3 (037-09791)
"Flood Control" 4 (037-00392)
"Flood Control" 5 (037-00142)
"Flood Control" 6 (037-00393)
"Oil Operators" 1 (037-09792)
"Oil Operators" 2 (037-09793)
"Oil Operators" 3 (037-06496)
"Oil Operators" 4 (037-06415)
"Pool" 1 (037-09795)
"Pool" 2 (037-00397)
"Pool" 3 (037-09796)
"Pool" 4 (037-09797)

Description of the land upon which the well(s) is (are) located

Sec. 14-4S-13W

"Dominguez" 1 (037-11858)

Date of transfer, sale, assignment conveyance, or exchange: Dec. 1, 1978	New owner: Sun Oil Company Address: 23928 Lyons Avenue Newhall, CA 91321	Type of organization: Corporation Telephone No
Reported by: Former operator		
Confirmed by: New operator		
New operator new status (status abbreviation): PA	Request designation of agent:	
Old operator new status (status abbreviation): AB	Remarks	

Deputy Supervisor: for M. B. Albright

Signature: Eleanor Bickel

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book	FR	2-16-79
Form OGD148			Notice to operator		
New well cards			Bond status		
Well records		✓	EDP - AS		
Electric logs			cc: EDP Update Conservation Committee Update Center		
Production reports					

OGD15b (12-77 OSR1-2M)

WORK PERFORMED:

Drill ____ Redrill ✓ Deepen ____

Plug ____ Alter casing ____

Water flood ____ Water disposal ____

Abandon ____

Other ____

STATUS: (Date)

Producing ____

Recomp. prod. ✓ 6-24-67

Water flood ____

Water disposal ____

Abandoned ____

Other ____

MAP AND BOOK NC

RECORDS FILED & DATE: Clerk mw MT

Summary (dup.) ____

Log & Core (dup.) ____

✓ History (dup.) 10/4/67

✓ E-log (2) 3163-5902 7/7/67

Radio log ____

D. Survey ____

Other ____

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Location ____ Notice states ____

Elevation ____ Notice states ____

Production Reports ____

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

If stimulation or disposal well:
Form 121 ____ Folder ____

Form 19-A

RECORDS & REQUIREMENTS CHECKED: Eng. WR

✓ WR

✓ WR

Surface inspection —

Data needed none

Request records —

Correct records — (Specify)

CARDS NC

BOND: #1410633 dated 6-1-67

Hold ____ Reason ____

Release ✓ Date elig. 10-4-67

End premium year ____

5/14/68 per Ingram Release requested ✓ (Check one)

Bond superseded ____

Well abandoned ____

FINAL LETTER ____

and

FILE CLEARED ____

Clerk:

F 170 ____

F 165 ____

165A ____

F 150b AG

(Use Reason 2 on Form 150b)

F 159 ____

F 121 ____

FORM 103 SUBMIT IN DUPLICATE △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Company of California FIELD Long Beach

Well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.

Date September 11, 1967 Signed R. S. Ballantyne, Jr.

417 S. Hill St., Los Angeles 628-2156 Title Vice President
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1967	
8/8	Flowed 50 bbl. net 26.2° oil, 0.2% cut, 40-55#/pkr.
8/9	Moved in Blackwell & Sunde production rig. Opened bypass on packer and filled hole with salt water. Pulled tubing and packer (laid down 53 joints of 2-7/8" tubing). Go-Western jet perforated four 1/2" holes per foot as follows: 4612-4560', 4489-4449' and 4435-4395'.
8/10	Ran 127 joints of 2-7/8" Armco seal lock tubing with pump shoe and gas anchor - 3960' and 3990', respectively. Ran rods and put well on pump. (Production not separated from other wells until 9/5).
8/12	45 bbl. net.
8/14	50 bbl. net.
9/5	36 bbl. net, 24.1°, 0.5%.
9/12	32 bbl. net, 24°, 0.5%.
9/13	Moved in Blackwell & Sunde production rig. Ran 100 bbl. salt water into annulus. Installed BOPE. Pulled rods and tubing. Go Western found sticky bottom at 5845' and jet perforated four 1/2" holes per foot from 4805-4760'. Ran 139 joints of Armco 2-7/8" seal lock tubing with pump shoe and gas anchor at 4335' and 4365', respectively. Put well on pump.
9/14	56 bbl. gross, 38 bbl. net, 32.2%.
9/17	53 bbl. gross, 47 bbl. net, 11.3%.
9/26	67 bbl. gross, 66 bbl. net, 1.5%, 24.7°.

CASING RECORD AT COMPLETION OF WORK:
(Depths from present KB of 60') T.D. 5925'.
13-3/8" C 763'
8-5/8" C 3163'
5-1/2" C 5924, top 3017' (splice OK). Perfs. 4375' (WSO), 4395-4435', 4449-4489', 4560-4612', 4760-4805', 5712-5730', 5734-5754', 5761-5776'. Plug 5878'.

Sidetracked:
8-5/8" C 4011', top 3194'. Plug 3194' (and open hole up to 3165')
4-3/4" C 5382', top 3810'. Plug 3810'. Perfs: 4494-4534', 4571-4597', 4636-4676', 4811-4841', 4856-4926', 5119-5164', 5174-5241', 5286-5356'.
(6-5/8" L 4414' incl. 60' pfs, C 4350, top 3849', Perfs 4011-4034', 4076-4136', Reperf 4354-4405', cemented off behind 4-3/4".)
4-3/4" & 6-5/8" Perf 4146-4231'

DIVISION OF OIL AND GAS
RECEIVED
OCT 4 1967
INGLEWOOD, CALIFORNIA

FORM 103

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

26535-705 7-64 25M △ OSP

DIVISION OF OIL AND GAS
RECEIVED
JUL 7 1967
INGLEWOOD, CALIFORNIA

History of Oil or Gas Well

OPERATOR General Exploration Company of Calif. FIELD Long Beach

Well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.

Date July 3, 19 67 Signed R. S. Ballantyne, Jr.

417 S. Hill St., Los Angeles 628-2156 Title Vice President
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1967	**Note: Depth measurements taken from present K.B. elevation of 60' which is 6' higher than original datum. Ground elevation is 48'.**
6/6-7	Moved in, rigged up drilling equipment, installed base flange and B.O.P.E. (Graham Drilling Company).
6/8	Ran 7-5/8" bit on 3-1/2" drill pipe, located top of 4-3/4" liner at 3804' and filled hole with mud. Ran 940' stinger of 2-3/8" tubing on drill pipe and circulated from 4550' to solid fill at 4650'. Laid 100-sack class G cement plug from 4634'. Ran 7-5/8" bit and found cement at 3696' (witnessed by D.O.G.). Tested 8-5/8" casing and B.O.P.E. satisfactorily at 1050# for 15 minutes.
6/9-10	Ran two Yann mills and cut section in 8-5/8" casing from 3163' to 3168'. Ran two Servco mills and cut section to 3194'. Opened interval 3163'-3194' to 12-3/4". Ran 310' stinger of 2-7/8" tubing on drill pipe to 3260' and laid 80 sacks of class G cement (including 20% sand) treated with 0.5% CFR-2. Pulled tubing to 2720', back-scuttled, squeezed cement with 1100# and pressure dropping to 950# in 5 minutes.
6/11	Ran 7-5/8" bit and 8-5/8" casing scraper, found cement at 2992' and drilled out to 3165'. Drilled 7-5/8" hole to 3296' with DynaDrill.
6/12-16	Drilled 7-5/8" hole to 4845' using a Dyna Drill from 4299'-4463'. Ran Schlumberger I.E.S. from 4844' to 3163'.
6/16-19	Drilled 7-5/8" hole to 5900'. Ran Schlumberger I.E.S. from 5900' to 4844' and C.D.M. from 5900' to 4000'.
6/20	Drilled 7-5/8" hole to 5925' (T.D.). Ran 2907' (including Burns liner hanger), 68 joints, 5-1/2", 15.5#, J-55 casing on drill pipe. Cemented at 5924' with 579 C.F. of 1:1 class G cement pozmix with 2% gel and 0.5% CFR-2 and 12% salt in mix water. Backscuttled small amount of cement from inside top of 5-1/2" liner. Ran 7-5/8" bit and 8-5/8" casing scraper to top of liner at 3017'.
6/21	Pressure tested casing at 1000# and lap took fluid. Ran Baker shoe squeeze tool on drill pipe and set at 2925'. Squeezed 52 sacks of 75 sacks class G cement mixed into lap at 3017' with a final pressure of 2000#. Ran 7-5/8" bit and 8-5/8" casing scraper, found top of cement at 2940' and drilled out to 3017'.
6/22	Ran 4-3/4" bit and 5-1/2" casing scraper on 2949' of 2-7/8" Armco (seal lok) tubing below drill pipe. Cleaned out cement to 3037' and ran to float collar at 5878'. Satisfactorily pressure tested lap with 1000#. Ran Johnston tester and set packer at 2992' with tail to 3008'. Open 63 minutes. Recovered 10' of drilling fluid. Charts showed tester open. W.S.O. on lap approved by D.O.G. Ran Go-Western cement bond log from 5878' to 3900' and perforated four 1/2" jet holes at 4375'. Ran Johnston tester and set packer at 4342' with tail to 4358'. Open 1 hour. Recovered 45' of drilling fluid. Charts showed tester open. W.S.O. at 4375' approved by D.O.G.
6/23	Ran open end tubing to 5874'. Changed over to 68# salt water. Laid down drill pipe. Ran Go-Western 4" steel carrier and jet perforated four 1/2" holes per foot as follows: 5776'-5761', 5754'-5734' and 5730'-5712'. Ran Guiberson packer on 179 joints of 2-7/8" Armco (seal lok) tubing and set at 5615'. Landed tubing with 16,000# on packer.

FORM 103 SUBMIT IN DUPLICATE 26535-705 7-64 25M △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Company of Calif. FIELD Long Beach

Well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.

Date July 3, 1967 Signed R. S. Ballantyne, Jr.

417 S. Hill St., Los Angeles 628-2156 Title Vice Resident
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

6/24 Removed B.O.P.E. Installed surface equipment. Swabbed well into production at 10:00 A.M. Flowed 74 bbl. net/20 hrs., 81 BD rate, 27.2°, 0.1%, 65 McfD, 20-230#/pkr. 22/64" bean.

6/25 80 bbl. net, 27.2°, 0.1%, 65 Mcf, 20-160#/pkr., 22/64".

6/26 82 bbl. net, 27.2°, 0.1%, 58 Mcf, 20-150#/pkr., 22/64".

6/27 80 bbl. net, 27.2%, 0.2%, 63 Mcf, 20-170# pkr., 22/64".

CASING RECORD AT COMPLETION OF WORK:

(Depths from present KB of 60') T.D. 5925'.
13-3/8" C 763'
8-5/8" C 3163'
5-1/2" C 5924, top 3017' (splice OK). Perfs. 4375' (WSO), 5712-5730', 5734-5754', 5761-5776'. Plug 5878'.

Sidetracked:
8-5/8" C 4011', top 3194'. Plug 3194' (and open hole up to 3165')
4-3/4" C 5382', top 3810'. Plug 3810'. Perfs: 4494-4534', 4571-4597', 4636-4676', 4811-4841', 4856-4926', 5119-5164', 5174-5241', 5286-5356'.
(6-5/8" L 4414' incl. 60' pfs, C 4350, top 3849', Perfs 4011-4034', 4076-4136', Reperf 4354-4405', cemented off behind 4-3/4".)
4-3/4" @ 6-5/8" Perf 4146-4231'.

DIVISION OF OIL AND GAS
RECEIVED
JUL 7 1967
INGLEWOOD, CALIFORNIA

FORM 109-A

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 167-576

Mr. C. G. Willis
417 So. Hill Street
Los Angeles, California 90013
Agent for GENERAL EXPLORATION CO. OF CALIF.

Inglewood, Calif.
June 28, 1967

DEAR SIR: (037-06415)

Your well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B & M. Long Beach Field, in Los Angeles County, was tested for water shut-off on June 22, 1967. Mr. R. Johnson, Engineer, designated by the supervisor was present from 8:00 p.m. to 9:00 p.m. as prescribed by law; there were also present R. Willis, Engineer

Shut-off data: 5½ in. 15.5 lb. casing was -- cemented from 3017' to xx 5925 ft. on June 20, 1967 in 7-5/8 in. hole with 579 cu. ft. ~~xxxx~~ of cement slurry (1:1 pozzmix, 2% gel) filling ~~xxxxxxxxxxxx~~ behind casing to 3017 ft. below surface.

Casing record of well: 18-5/8" cem. 50'; 13-3/8" cem. 757'; 8-5/8" cem. 4005', window 3163'-3194' sidetracked @ 3165'; 5-1/2" cem. 3017'-5925', perf. 4358' WSO, TD 1st hole 5379'.

Present depth 5925 ft. cmt. bridge 5925 ft. to 5880 ft. Cleaned out cmt. ---- ft. to ---- ft. for test. A Johnston tester was run into the hole on 3½ & 2-7/8 in. drill pipe ~~xxxxx~~ with ----- ft. of water-mud cushion, and packer --set at 4342 ft. with tailpiece to 4358 ft. Tester valve, with 3/4 in. bean, was open for 1 hr. and --- min. During this interval there was a light blow for 2 minutes & no blow thereafter.

Mr. Willis reported ~~x~~ that the 5-1/2" casing was jet-perforated with four, 3/8" holes at 4358'.

THE ENGINEER NOTED:
1. When the drill pipe was removed, 45' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE 5-1/2" SHUT-OFF AT 4358' IS APPROVED.

RJ:nw

cc Company

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By Wm. C. Bailey Deputy

26536-705 7-64 20M ② OSP

FORM 109-D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 167-575

Mr. C. G. Willis
417 So. Hill Street
Los Angeles, California 90013
Agent for GENERAL EXPLORATION CO. OF CALIF.

Inglewood, Calif.
June 28, 1967

DEAR SIR: (037-06415)

Operations at well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on June 22, 1967. Mr. S. Cordova, Engineer, representative of the supervisor was present from 11:30 a.m. to 12:15 p.m. There were also present R. Willis, Engineer & C. D. Martin, Drilling Foreman

Present condition of well: 18-5/8" cem. 50'; 13-3/8" cem. 757'; 8-5/8" cem. 4005' window 3163'-3194', sidetracked @ 3165'; 5-1/2" cem. 3017'-5925'. TD 5925'. TD 1st hole 5379'.

The operations were performed for the purpose of demonstrating the effectiveness of the seal between the 8-5/8" and 5-1/2" casings.

Mr. Willis reported:

1. A window was milled in the 8-5/8" casing from 3163' to 3194' and the hole was opened to 13" in that interval.
2. On June 10, 1967, 80 sacks of cement mixed with 20% sand was pumped into the hole through 3-1/2" drill pipe hanging at 3260'.
3. Cement was drilled out of the hole from 2992' to 3165'.
4. A 7-5/8" hole was redrilled from 3165' to 5925'.
5. On June 20, 1967, 2908' of 5-1/2", 15.5 lb. casing was cemented from 3017' to 5925' with 579 cubic feet of cement slurry (1:1 pozzmix, 2% gel), filling behind the 5-1/2" casing to 3017'.
6. Excess cement was backscuttled from above the 5-1/2" casing.
7. On June 21, 1967, the annulus between the 8-5/8" and 5-1/2" casings was recemented with 75 sacks of cement of which 50 sacks was squeezed away under a final pressure of 2000 Psi.
8. The hole was cleaned out to the float collar at 5880'.
9. A Johnston tester was run into the hole on 3-1/2" drill pipe, and packer set at 2993', with tailpiece to 3008'.
10. The tester valve with 3/4" bean was open for 1 hr. During this interval there was a light blow for 3 minutes and no blow thereafter.

THE ENGINEER NOTED:

1. When the drill pipe was removed, 10' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED and indicate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.

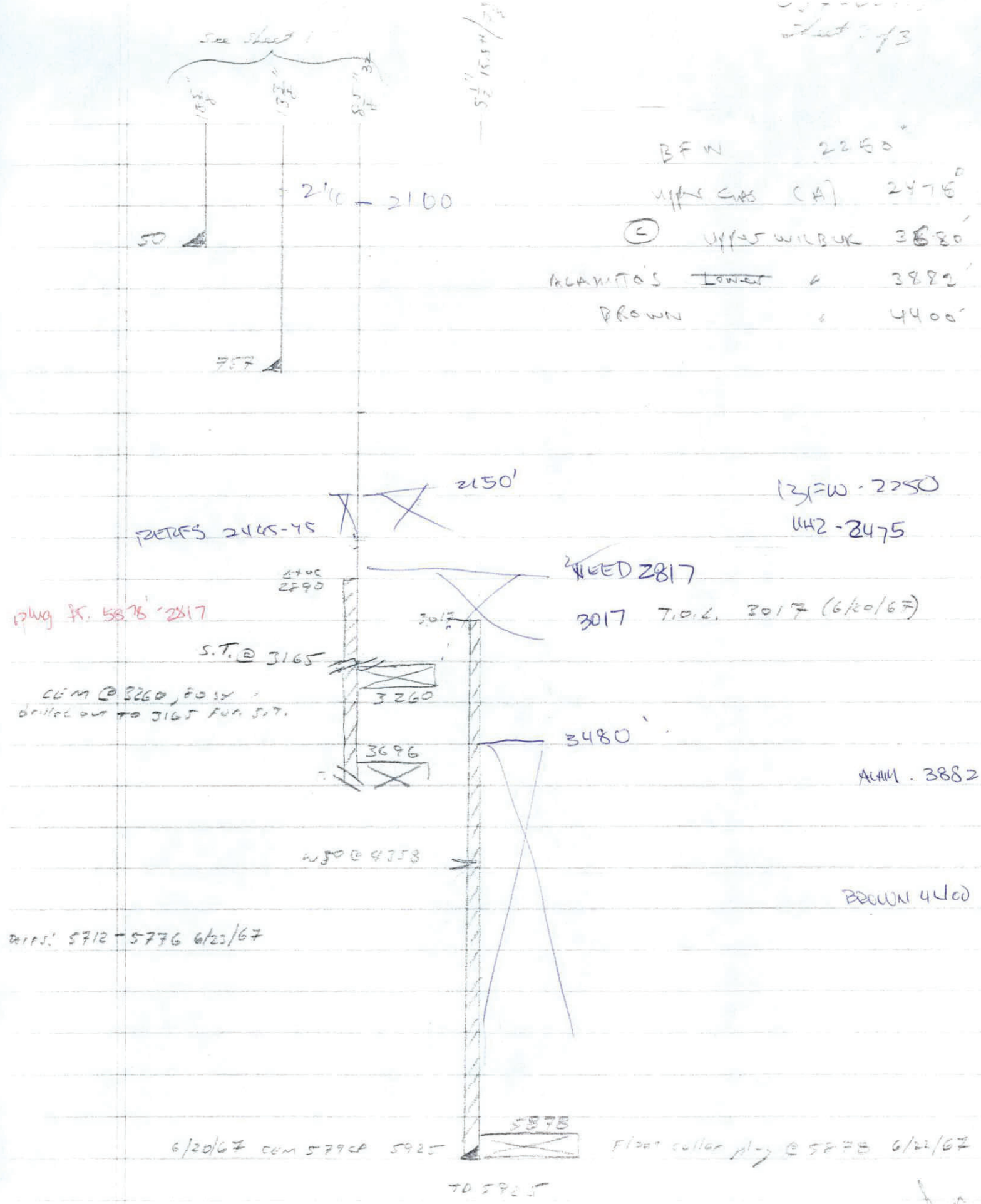
SC:nw

cc Company

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By Chas. C. Bailey Deputy

90947-705 3-67 15M ② OSP


See Sheet 1
2100
50
757
BFW 2250'
Upper Gas (A) 2478'
(C) Upper Wilbur 3680'
Alamito's ~~Lower~~ " 3882'
Brown " 4400'
2150'
RERFS 2445-75
BFW - 2250
UHZ - 2475
NEED 2817
plug ft. 5878' - 2817
3017 T.O.L. 3017 (6/20/67)
S.T. @ 3165
CEM @ 3260, 80 sx
drilled out to 3165 for S.T.
3260
3480'
3696
ALAM. 3882
W50 @ 4358
BROWN 4400
Perfs: 5712 - 5776 6/23/67
5878
6/20/67 CEM 5796 5925
Float collar plug @ 5878 6/22/67
TD 5925

RDZ

FORM 109-D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 167-526

Mr. C. G. Willis
417 So. Hill Street
Los Angeles, California 90013

Inglewood, Calif.
June 14, 1967

Agent for GENERAL EXPLORATION CO. OF CALIF.

DEAR SIR: (037-06415)

Operations at well No. "Oil Operators" 4, Sec. 13, T. 4 S, R. 13 W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on June 8, 1967. Mr. M. Mefferd, Engineer, representative of the supervisor was present from 9:30 p.m. to 10:30 p.m. There were also present C. Martin, Drilling Foreman & L.Saxton, Driller

Present condition of well: 18-5/8" cem. 50'; 13-3/8" cem. 757'; 8-5/8" cem. 4005', WSO; 6-5/8" ld. 3843'-4408', cp 4344', perf. 4005'-4028', 4070'-4130' & 4140'-4225'; 4-3/4" cem. 3804'-5376', perfs. 4140'-4225', 4488'-4528', 4565'-4591', 4630'-4670', 4805'-4835', 4850'-4920', 5113'-5158', 5168'-5235' & 5280'-5350'. TD 5379', plugged w/cem. 5376'-5361' & 4634'-3696'.

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 4634' to 3696' in the process of plugging back to redrill.

Mr. Martin reported:

1. The hole was cleaned out to solid fill at 4650'.
2. On June 8, 1967, 100 sacks of cement was pumped into the hole through 2-3/8" tubing hanging at 4634', filling to 3696'.

THE ENGINEER NOTED THAT the cement plug at the reported depth of 3696' supported 1/4 of the weight of the drill pipe.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 3696' ARE APPROVED.

MM:nw

cc Company

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By [signature] Deputy

57152-705 10-65 15M ② OSP

FORM 111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 167-601

Mr. C. G. Willis
417 So. Hill Street
Los Angeles, California 90013

Inglewood, Calif.
June 6, 1967

Agent for GENERAL EXPLORATION CO. OF CALIF.

DEAR SIR:

Your proposal to redrill (037-06415) Well No. "Oil Operators" 4, Section 13, T. 4 S, R. 13 W, S.B. B. & M., Long Beach Field, Los Angeles County, dated June 2, 1967, received June 2, 1967, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
Plugged w/cem. 5376'-5361'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth. 5379'
2. Complete casing record, including plugs:
   13-3/8" C 757'
   8-5/8" C 4005' OK
   4-3/4" C 5376', top 3804', Pfs. 4488-4528', 4565-4591', 4630-4670', 4805-4835', 4850-4920', 5113-5158', 5168-5235' and 5280-5350'. Pl. 5365'. Sand bridge 4650'.
   (6-5/8" L 4408' incl. 60' pfs. C 4344', top 3843', Pf 4005-4028', 4070-4130'; Repf 4348-4399', cemented off behind 4-3/4".)
   4-3/4" & 6-5/8" Pf 4140-4225'.
3. Last produced 10/14/64 (Date) 2 (Oil, B/D) 546 (Water, B/D) - (Gas)"

PROPOSAL
"The proposed work is as follows:
1. Move in drilling equipment, install B.O.P.E. and fill hole with mud.
2. Lay cement plug from top of sand at approximately 4650' back to 3700' (top 4-3/4" liner at 3804'). Locate top of plug. Pressure test 8-5/8" casing and B.O.P.E. with 1000#.
3. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 13", lay cement plug from 100' below section back above top of window and level off plug 5' into section.
4. Sidetrack cased hole through section and drill 7-5/8" hole to approximately 4800'.
5. Run and cement 5-1/2" liner, effect W.S.O. at lap of 8-5/8" casing and above productive horizon.
6. Complete well."

DECISION
THE PROPOSAL IS APPROVED PROVIDED:
1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   a. The location and hardness of the cement plug at 3700'.
   b. A test, after cleaning out below the top of the liner to demonstrate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.
   c. A test of the effectiveness of the 5½" shut-off.

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By _____ Deputy Dated

WLI:nw Bond No. 1410633, 6/1/67

BLANKET BOND

18755-703 3-64 50M ©

FORM 107

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS
RECEIVED
JUN 2 1967
INGLEWOOD, CALIFORNIA

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Los Angeles Calif. June 2 1967

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening~~, redrilling, ~~plugging or altering casing~~ at Well No. "Oil Operators" 4 (037-06415)

(Cross out unnecessary words)

, Sec. 13, T. 4S, R. 13W, S.B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 5379'

2. Complete casing record, including plugs:

13-3/8" C 757'
8-5/8" C 4005' OK
4-3/4" C 5376', top 3804', Pfs. 4488-4528', 4565-4591', 4630-4670', 4805-4835', 4850-4920', 5113-5158', 5168-5235' and 5280-5350'. Pl. 5365'. Sand bridge 4650'.
(6-5/8" L 4408' incl. 60' pfs. C 4344', top 3843', Pf 4005-4028', 4070-4130'; Repf 4348-4399', cemented off behind 4-3/4".)
4-3/4" & 6-5/8" Pf 4140-4225'.

3. Last produced. 10/14/64 (Date) | 2 (Oil, B/D) | 546 (Water, B/D) | - (Gas)

The proposed work is as follows:

1. Move in drilling equipment, install B.O.P.E. and fill hole with mud.
2. Lay cement plug from top of sand at approximately 4650' back to 3700' (top 4-3/4" liner at 3804'). Locate top of plug. Pressure test 8-5/8" casing and B.O.P.E. with 1000#.
3. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 13", lay cement plug from 100' below section back above top of window and level off plug 5' into section.
4. Sidetrack cased hole through section and drill 7-5/8" hole to approximately 4800'.
5. Run and cement 5-1/2" liner, effect W.S.O. at lap of 8-5/8" casing and above productive horizon.
6. Complete well.

Redrill

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			No. 1410633 6-1-67	a2	a2

417 S. Hill St., Los Angeles 90013
(Address)

628-2156
(Telephone No.)

GENERAL EXPLORATION COMPANY OF CALIFORNIA
(Name of Operator)

By R. S. Ballantyne
R. S. Ballantyne, Vice President

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

71443 8-62 10M (2) SFO

FORM 156

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach — District: 1

Former Owner: Union Oil Co. of California — Date: January 17, 1961

Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 730 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.

Type of Organization: Corporation
Reported by: Union Oil Co. of California (letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (letter of January 11, 1961)
New Operator New Status PA, Old Operator New Status PA
Request designation of agent No

Remarks:

ab
CC- Mr. D. H. Hansen
Prod. Dept.
Conservation Committee

Deputy Supervisor

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"

96785 4-59 4500 ② SPO

Form 10

CLERK

(13)

RECEIPT FOR

Date Received 11-6-59 Form 100 ___ 101 ___ 103 ___ ___ New Well Records

Elec. Log ___ Radio Log ___ ___ Subsequent Work

Direct. Surv. ___ Other Data Here Well Summary ___ (100)

Location ___ Drillers Log ___ (101)

___ Core Record ___ (101)

Elevation ___ Clerk Scott History ✓ (103)

Prod. Repts. ___ Clerk ___ Elec.Log ___

COMPLETED PRODUCING ON 8-27-59 ENGINEER Other ___

ABANDONED ON ___

BOND Blanket Release ___ Date Elig. ___ 150b ___

End Prem. year ___ Release Requested ___ Superseded ___

Aband. ___ Redrill ___

HOLD BOND ___ Reason ___ Deepen ___

___ Plug ___

Data Needed ___ Alter Csg. ✓

___ Final Letter ___ Eng. RC Abandon ___

IN U.S.A.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV 6 1959
INGLEWOOD, CALIFORNIA

17
13

WELL NO. "Oil Operators" #4

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W, S.B. B. & M.

UNION OIL COMPANY of Calif

History of Oil or Gas Well
REPAIR REPORT

Portable Hoist-Contract
(TOOLS)

August 27, 1959
(PERIOD ENDING)

CASING RECORD

See below

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1959	DEPTH	EFFECTIVE DEPTH	REMARKS
				CHARGE: BR-AFE 56900 Job 528 PROPOSED WORK: Add perforations in the Alamitos Zone. PRODUCTION BEFORE REPAIR: Idle ZERO POINT for this Job: 8.5' above pad.
	CASING RECORD AT START OF WORK: 13-3/8" C 757' 8-5/8" C 4005' OK 1572' 4-3/4" C 5376'. Pfs 4488-4528', 4565-4591', 4630-4670', 4805-4835', 4850-4920', 5113-5158', 5168-5235', 5280-5350'. (565' 6-5/8" L 4408' incl. 60' pfs. Cr 4344'. Pf 4005-4028', 4070-4130'; Repf 4348-4399', cemented off behind 4¾")			CASING RECORD AT COMPLETION OF WORK: 13-3/8" C 757' : 8-5/8" C 4005' OK 1572' 4-3/4" C 5376'. Pfs 4488-4528', 4565-4591', 4630-4670', 4805-4835', 4850-4920', 5113-5158', 5168-5235', 5280-5350'. (565' 6-5/8" L 4408' incl. 60' pfs. Cr 4344'. Pf 4005-4028', 4070-4130'; Repf 4348-4399', cemented off behind 4¾") 4-3/4" & 6-5/8" perfs., 4140-4225'.
2	8-25	5379	Plug 5361	Contractor moved in and rigged up. Pulled rods and pump. Pulled tubing. Ran in with 7-1/2" impression block to top of 4-3/4" liner at 3807'. Ran 3-5/8" impression block to 4250'. Installed blow-out preventer.
2	8-26	"	" "	Perforated 4-3/4" and 6-5/8" liners from 4225-4140' with two 1/2" jet holes per foot and two 1/2" bullets per foot. Fluid level (mud) rose from 3600' at start to 1400' at end. Light blow while shooting. Ran in with 2-7/8" Cavins sand pump and bailed at 5331'. Started running tubing.
2	8-27	"	" "	Ran in and landed tubing with gas anchor at 4200'. Ran rods and pump. Put well on production. Contractor moved out.

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co. - Contractor

Vaughn L. Moyer
DISTRICT ENGINEER

IN U.S.A.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

UNION OIL COMPANY

History of Oil or Gas Well

REPAIR REPORT

WELL NO. Oil Operators #4

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

Port. Hoist - Contract
(TOOLS)

September 24, 1959
(PERIOD ENDING)

CASING RECORD

13-3/8" C 757'; 8-5/8" C 4005' OH 1572'; 4½" C 5376', lfs 4488-4528, 4565-4591', 4630-4670, 4805-4839, 4850-4920, 5113-5158, 5168-5235', 5280-5350'

(565' 6-5/8" L 4408' incl. 60' pfs
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1959	DEPTH	EFFECTIVE DEPTH	REMARKS
		5379	Plug 5361	Of 4344'. Pf 4005-4028, 4070-4130'; repfs 4348-4399', cmtd off behind 4-3/4") 4-3/4" & 6-5/8" pfs 4140-4225'.

PRODUCTION DATA

	Hrs	Gross	Net	Cut	Grav.	MCF	Remarks
8-28	24	64	0	100.0			
8-29	24	104	0	100.0			
8-30	24	124	0	100.0			
8-31	24	103	0	100.0			
9-1	24	120	0	100.0			
9-2	24	107	0	100.0			
9-3	24	120	0	100.0			
9-4	24	80	0	100.0			
9-5	24	100	0	100.0			
9-6	24	95	0	100.0			
9-7	24	103	0	100.0			
9-8	24	91	0	100.0			
9-9	24	101	0	100.0			
9-10	13	325	0	100.0			Pulled rods.
9-11	6	85	0	100.0			Pulled tubing. Ran tbg & rods.
9-12	11	115	0	100.0			Pump stuck.
9-13	24	222	0	100.0			
9-14	24	224	22	90.0			
9-15	24	316	35	89.0			
9-16	24	246	27	89.0	23.2	0	
9-17	24	270	27	90.0	23.2	Tr.	
9-18	-	Well down due to bad leak in the oil line.					
9-19	-	" " " " "			" " "	" "	
9-20	-	" " " " "			" " "	" "	
9-21	17	175	18	90.0	23.2	0	
9-22	24	252	25	90.0	23.2	10	
9-23	24	251	25	90.0	23.2	4	
9-24	24	377	38	90.0	23.2	4	

DIVISION OF OIL AND GAS
RECEIVED
NOV 6 1959
INGLEWOOD, CALIFORNIA

rjh

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co. - Contractor

Vaughn S. Hoyer
DISTRICT ENGINEER

FORM 111

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 159-744

Mr. C. F. Bowden
P. O. Box 7600
Los Angeles 54, California
Agent for UNION OIL COMPANY OF CALIFORNIA

Inglewood 3, Calif.
September 1, 1959

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 4,

Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County,

dated August 25, 1959 received August 28, 1959 has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
18-5/8" cem. 50'; 8-5/8" cem. 4005', W.S.O.; 6-5/8" perf. 4348'-4408', plugged with cement 5376'-5361'.

THE NOTICE STATES
"The present condition of the well is as follows:

1. Total depth. 5379'
   Plug 5361'
2. Complete casing record.
   13-3/8" C 757'
   8-5/8" C 4005' OK
   565' 6-5/8" L 4408' inc. 60' perf.; CP 4344'; Pf. 4005-4028, 4070-4130, 4348-4399'----Cemented off behind 4-3/4".
   1572' 4-3/4" C 5376', plug 5361'; Pf 4488-4525, 4565-4591, 4630-4670, 4805-4835, 4830-4920, 5113-5235, 5280-5350'.
3. Last produced. January, 1958 (Date) | 2 (Net Oil) | 21.1 (Gravity) | 75.0% (Cut)"

PROPOSAL
"The proposed work is as follows:

1. Pull rods and tubing. Install blow-out preventer equipment.
2. Check condition of casing.
3. Bullet and jet perforate 4-3/4" and 6-5/8" casings with four holes per foot from 4140-4225'.
4. Run tubing, pump and rods.
5. Test well on production."

DECISION
THE PROPOSAL IS APPROVED.

RC:yk

cc- Mr. Vaughn S. Moyer

E. H. MUSSER, State Oil and Gas Supervisor

By _____, Deputy

Blanket Bond

58444 7-57 60M SPO

FORM 107.

DIVISION OF OIL AND GAS
RECEIVED
AUG 28 1959
INGLEWOOD, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Santa Fe Springs, Calif. August 25, 19 59

DIVISION OF OIL AND GAS

Inglewood, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. Oil Operators #4
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 5379'
   Plug 5361'

2. Complete casing record.

13-3/8" C 757'
8-5/8" C 4005' OK
565' 6-5/8" L 4408' inc. 60' perf.; CP 4344'; Pf. 4005-4028, 4070-4130, 4348-4399' ---- Cemented off behind 4-3/4".
1572' 4-3/4" C 5376', plug 5361'; Pf 4488-4525, 4565-4591, 4630-4670, 4805-4835, 4830-4920, 5113-5235, 5280-5350'.

3. Last produced.	January, 1958 (Date)	2 (Net Oil)	21.1 (Gravity)	75.0% (Cut)

The proposed work is as follows:

1. Pull rods and tubing. Install blow-out preventer equipment.
2. Check condition of casing.
3. Bullet and jet perforate 4-3/4" and 6-5/8" casings with four holes per foot from 4140-4225'.
4. Run tubing, pump and rods.
5. Test well on production.

After casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket	EB	EB

Union Oil Co. of Calif.
(Name of Operator)

By Vaughn S. Moyer
Vaughn S. Moyer, Division Engr.

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

COMPLETED PRODUCING ON 8-27-59

ABANDONED ON

STENOGRAPHER

Date Received 2-26-49 Form 100 ____ 101 ____ 103 ____

Elec. Log ____ Radio Log ____

Direct. Surv. ____ Other Data History of alter casing

Location ____

Elevation ____ Steno. EO

ENGINEER

BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem.Yr. ____ Release Requested ____ Superseded ____ Aban. ____

HOLD BOND ____ Reason ____

Data Needed /

Final Letter ____ Eng. SHR 3-1-49

Note: This work done without filing notice.

STENOGRAPHER

Date Received 12-2-48 Form 100 ____ 101 ____ 103 ____

Elec. Log. ____ Radio Log ____

Direct.Surv. ____ Other Data List of alter csg

Location ____

Elevation ____ Steno. y

ENGINEER

BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem.Yr. ____ Release Requested ____ Superseded ____ Aban. ____

HOLD BOND ____ Reason ____

Data Needed None

Final Letter ____ Eng. SAR

12-6-48

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

15

WELL NO. Oil Operators #4

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

UNION OIL COMPANY
History of Oil or Gas Well

REPAIR REPORT

Portable Hoist - Contract
(TOOLS)

Oct. 30, 1948
(PERIOD ENDING)

CASING RECORD
13-3/8" @ 791'
8-5/8" @ 4005' O.K.
1572' 4½" @ 5376', pf 4630-70', 4805-35', 4850-4920', 5113-58', 5168-5235', 5280-5350'.
(565' 6-5/8" L 4408' inc. 60' pf, C.P. 4344' behind 4-3/4")
(NOTE INEFFECTIVE CASING)

RECEIVED
DEC - 2 1948
DIVISION OF OIL AND GAS
LOS ANGELES, CALIFORNIA

NO. TOURS	DATE 1948	DEPTH	EFFECTIVE DEPTH	REMARKS
				Proposed Work: Perforate interval from 4805' to 4835' with two ½" holes per foot.
				Production: 7 B/D net - 18.7% - 21.5°
1	10-18	5379	Plug 5361	California Production Service - Contractors, moved in and pulled rods, pump and tubing. Ran 2-7/8" Cavins sand pump bailer to 5350'.
1	10-19	"	"	Cleaned out with ditto bailer to 5360'. Ran 3-3/4" impression block to 5130'. Indicated rough perforation holes. Ran 3-1/2" impression block to 5360'. O.K. Ran in and shot 4-3/4" casing at intervals from 4630-4670', 4805-4835' with 140 1/2" McCullough bullets, using 3-1/2" o.d. x 10' (20-shot) gun. Checked top of 4-3/4" casing at 3802'. Fluid level at start 3590'. Fluid level at finish 3520'. Evidence of fine sand and mud on guns and sand line during shooting from 4630-4670'. Light gas blow during entire period of shooting.
1	10-20	"	"	Ran tubing to 4600'. Put well on production.

PRODUCTION DATA

	Hours	Gross	Net	Cut	Grav.	Remarks
10-21	24	28	26	8.0	21.5	
10-22	24	20	18	10.0		
10-23	24	15	14	6.0		
10-24	24	18	17	5.0		
10-25	24	15	14	6.0		
10-26	24	15	14	6.0		
10-27	24	7	6	14.0		
10-28	24	6	6	-		
10-29	24	7	6	14.0		
10-30	24	6	6	-		

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

NAMES OF DRILLERS/HEAD WELL PULLERS: Calif. Prod. Serv. - Contr.

John R. Grasse
DISTRICT ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL NO. 011 Operators #4

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13 T. 4-S R. 13-W S.B. B. & M.

UNION ~~OIL~~ COMPANY

History of Oil or Gas Well

REPAIR REPORT

Portable Hoist - Contract
(TOOLS)

Dec. 9, 1948
(PERIOD ENDING)

CASING RECORD
13-3/8" C 757'; 8-5/8" C 4005'
O.K.: 1572' 4-3/4" C 5376', pf. 4488-4528', 4565-4591, 4630-4670' 4805-4835', 4850-4920', 5113-58', 5168-5235, 5280-5350'; (565' 6-5/8" L 4408' inc. 60' pfs., C.P. 4344' behind 4-3/4")
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1948	DEPTH	EFFECTIVE DEPTH	REMARKS
				Proposed Work: Perforate interval from 4565' to 4591' with two 1/2" holes per foot. Test on the pump. Productions: 6 B/D net - 11.4% cut
2	11-23	5379	Plug 5361	Pulled rods, pump and tubing. Made up 2-5/8" Cavins sand pump baile
2	11-24	5379	"	Checked bottom with bailer at 5360'. Gun perforated 4-3/4" casing from 4488-4528', 4565-4591' with 132' McCullough 1/2" bullets using 3-1/2" o.d. x 20 shot gun (120 grain loads). Had strong gas blow after shooting first gun. Blow continued throughout shooting. Unable to check fluid level with gun. Guns contained some sand. Casing pressure 225# while shooting. Used 8.5' above concrete pad as zero measurement.
3	11-25	5379	"	Checked bottom at 5360'. Unable to determine fluid level. Ran tubing, pump and rods. Contractors moved out.
1	11-26 to 11-29	5379	"	Installed gas trap

PRODUCTION DATA

	Hours	Gross	Net	Cut	Remarks
11-30	16	12	11	21.5	
12-1	0	-			Pump change.
12-2	0	-			
12-3	0	-			Bailed 5315-5360'
12-4	0	-			Bailing
12-5	0	-			Bailing
12-6	24	47	26	40.0	
12-7	24	8	5	40.0	
12-8	24	12	7	40.0	
12-9	24	9	5	40.0	

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
					ED

RECEIVED
FEB 26 1949
LOS ANGELES, CALIFORNIA

CB NAMES OF DRILLERS/HEAD WELL PULLERS: CALIF. PROD. SERV. - Contr.

John R. Fraser
DISTRICT ENGINEER

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-45682

Los Angeles 15, Calif. October 5, 1948

MR. W. S. Eggleston

Los Angeles 14, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 4, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated Sept. 30, 1948, received Oct. 1, 1948, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Complete casing record.
   Total Depth 5379' - Plug 5365'
   18-5/8" C 50'
   13-3/8" C 757'
   8-5/8" C 4005' O.K.
   565' 6-5/8" L 4408' inc. 60' perf., C.P. 4344' - drilled through bottom.
   (Perf. & cmtd. 4005-4028', 4070-4130')
   1572' 4-3/4" C 5376', perf. 4850-4920', 5113-5158', 5168-5235', 5282-5350'
   3 Trp @ 3802'
2. Last produced Aug. 1948 (Date) 8 B/D Ave. (Net Oil) 21.5° (Gravity) 15.5% (Cut)"

PROPOSAL:

"The proposed work is as follows:

1. Add perforations with two 1/2 bullet perforations per foot in the intervals from 4630-4672', 4805-4835'.
2. Test on production."

DECISION:

THE PROPOSAL IS APPROVED.

SHR:OH

cc- John R. Fraser
Long Beach

Records Filed
100
101
103 12-2-48 — See also history of altering cas. filed 2-26-49. work not proposed.
E. Log.

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy
EHB

W/ EHB

Blanket bond.

FORM 107. 36343 7-44 17,500
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
OCT 1 - 1948
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Whittier, Calif. Sept. 30, 1948

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging~~ or altering casing at well No. Oil Operators #4
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S. B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

Total Depth 5379' - Plug 5365'
18-5/8" C 50'
13-3/8" C 757'
8-5/8" C 4005' O.K.
565' 6-5/8" L 4408' inc. 60' perf., C.P. 4344' - drilled through bottom.
(perf. & cmtd. 4005-4028', 4070-4130')
1572' 4-3/4" C 5376', perf. 4850-4920', 5113-5158', 5168-5235', 5282-5350'

2. Last produced Aug. 1948 (Date) 8 B/D Ave. (Net Oil) 21.5° (Gravity) 15.5% (Cut)

The proposed work is as follows:

1. Add perforations with two 1/2" bullet perforations per foot in the intervals from 4630-4672', 4805-4835'.

2. Test on production.

alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket		

UNION OIL COMPANY OF CAL.IF.
(Name of Operator)

By John R. Fraser
John R. Fraser, Division Engr.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

STENOGRAPHER

Forms ed 103

Date Rec'd. 11-14-45

Electric Log —

Location —

Elevation —

ENGINEER

Form Needed —

Map Correction —

Form 150b (Date of Release)

At Request of Operator Blanket
Because Abandoned
Because Request by Oper.

Remarks sub work report of alter casing

ERM

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL AND GAS
RECEIVED
NOV 14 1945
LOS ANGELES, CALIFORNIA

14

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators 4, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E Winter

Date November 8, 1945 Title Division Engineer.
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date

Casing Record at Beginning of Work:

13-3/8" C 757'
8-5/8" C 4005' O.K.
565' 6-5/8" L 4408', inc. 60' perf.
C.P. 4344' - Reperf. 4348-4399'
1572' 4-3/4" C 5376'
Perf. and reperf. 5113-5158, 5168-5235 and 5280-5350'

Casing Record at End of Work:

13-3/8" C 757'
8-5/8" C 4005' O.K.
565' 6-5/8" L 4408', inc. 60' perf.
C.P. 4344 - Reperf. 4348-99
1572' 4-3/4" C 5376'
Perf. and reperf. 4850-4920, 5113-5158, 5168-5235 and 5280-5350'

1945	Depth	Eff. Depth	Remarks
8-16	5379	Plug 5361	Pulled rods and tubing. Rigged up to add perforations.
8-17		C.O. 5361	Cleaned out sand from 5355 to 5361'. Fluid level 4410'.
8-18			Perforated 4-3/4" casing from 4850 to 4920' with 138 Lane-Wells 1/2" bullets.
8-22			Ran rods and 2-1/2" upset tubing to 5029' over-all. Put well to pumping.

Production Data:

	Hours	Gross	Net	Grav.	Cut
8-23	24	21	16	26.2	13.1
8-25	24	21	16	26.2	13.1
8-27	24	19	16	26.2	13.1
8-29	24	21	18	26.2	13.1
8-31	24	17	15	26.2	13.1

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
					16

DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

No. 732

Los Angeles, Calif. 10-10, 1944

Union Oil Co of Calif
Name of Operator

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13
T. 4S R. 13W, SB B. & M., as herewith enumerated by well numbers.

DIVISION OF OIL & GAS
RECEIVED
OCT 20 1944
SAN FRANCISCO, CALIF.

Logs Long Beach

History

Core record

Subsequent work "All operators" 4 10-4-44

R. D. BUSH, *State Oil and Gas Supervisor*

By G. H. Musser Deputy

FORM 127
36195 7-44 3500 TRIP SPO

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-41022

Los Angeles 14, Calif. August 14, 1945

Mr. W. S. Eggleston
Los Angeles 14, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to alter casing Well No. "Oil Operators" 4, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated Aug. 6, 1945, received Aug. 10, 1945, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

Records in addition to, or at variance with those shown in the notice:
The 6-5/8" casing is perforated 4348'-4408', 4130'-4070', and 4028'-4005', (sealed off by 4-3/4" casing).

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Complete casing record.
Total Depth 5379' Plug 5361'
13-3/8" Cmtd. 757'
8-5/8" Cmtd. 4005' OK
1572' 4-3/4" Cmtd. 5376' Perf. 5113-5158', 5168-5235', 5280-5350'.
(565' 6-5/8" L 4408' inc. 60' perf. CP 4344' - Drilled through)

Production has not been satisfactory since reperforating in August, 1944.

2. Last produced June, 1945 (Date) 172 (Net Oil) 26.2° (Gravity) 26.2% (Cut) 29 days"

PROPOSAL:

"The proposed work is as follows:
1. Leave present perforations (RS-T) open and add perforations 4850-4920'.
2. Test on production."

DECISION:

THE PROPOSAL IS APPROVED.

ERMA:OH

Records Filed
100
101
103 11-14-45
E. Log

cc- P. A. W.
H. E. Winter
Long Beach

R. D. BUSH
State Oil and Gas Supervisor
By E. H. Meussen Deputy

Blanket bond No. 99071

FORM 107. 29275 11-43 10M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
AUG 10 1945
LOS ANGELES, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. August 6, 1945

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at well No. Oil Operators #4
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

Total Depth 5379' Plug 5361'
13-3/8" Cmtd. 757'
8-5/8" Cmtd. 4005' OK
1572' 4-3/4" Cmtd. 5376' Perf. 5113-5158', 5168-5235', 5280-5350'.
(565' 6-5/8" L 4408' inc. 60' perf. CP 4344' - Drilled through)

Production has not been satisfactory since reperforating in August, 1944.

2. Last produced June, 1945 (Date) 172 (Net Oil) 26.2° (Gravity) 26.2% (Cut) 29 days

The proposed work is as follows:

1. Leave present perforations (RS-T) open and add perforations 4850-4920'.

2. Test on production.

alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket 99071	Ens	Ens

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry E Winter
Division Engineer

cc: P.A.W.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

STENOGRAPHER

Forms Filed 102

Date Rec'd. 10-4-44

Electric Log ✓

Location _____

Elevation ✓

ENGINEER

Form Needed none

Map Correction none

Form 150b (Date of Release)

At Request of Operator _____
Because Abandoned _____
Because Request by Oper. _____

Remarks Rec. for Subsequent
work report