

# APPENDIX I

## Phase I Environmental Site Assessment

Prepared for:  
**CE Obsidian Energy, LLC**  
Calipatria, California

# Phase I Environmental Site Assessment of Amended Salton Sea Unit 6 (SSU6) Project Imperial County, California

AECOM Environment  
January 2009  
Document Number: 12676-001-171

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## EXECUTIVE SUMMARY

CE Obsidian Energy, LLC contracted with AECOM to perform a Phase I Environmental Site Assessment (ESA) of the Amended Salton Sea Unit 6 (SSU6) Project (Amended Project or Project). The area studied included the approximately 160-acre proposed plant site, three approximately 4.7-acre properties representing the three proposed injection well pad sites, approximately 3.22 miles of right-of-way (ROW) for proposed brine injection pipelines, and an approximately 34-acre borrow site. The proposed brine injection pipelines run from the proposed plant site to the three proposed injection well pad sites. The borrow site is located southeast of the proposed plant site. The subject property is located south of the Salton Sea, approximately five miles west of Highway 111 and 7½ miles north of Highway 86, in Imperial County, California. This Phase I ESA was performed in conformance with the general scope and limitations of American Society for Testing and Materials (ASTM) Standard Practice E 1527-05 for ESAs. Exceptions to, or deletions from, this practice are described in Section 1.3 of this report.

This assessment took place between September 22, 2008 and December 17, 2008, with site visits occurring on September 31, November 5, and December 11, 2008. The subject property is located within a general area occupied mostly by agriculturally developed land, as well as other existing geothermal power plants.

AECOM observed two bare concrete pads and electrical capacitors located in the northeast corner of the proposed plant site. There was no evidence of prior structures or storage on these pads. The bare concrete pads were reported to be the well pads for former wells, MM4, which have been plugged and abandoned. The electrical capacitors do not contain Polychlorinated Biphenyls (PCB) fluids. AECOM observed two geothermal wells and associated piping (currently utilized for the east adjacent Vulcan/Hoch geothermal facilities owned by CalEnergy Operating Company), an approximately 7 feet by 5 feet electrical equipment room, and an approximately 60 feet by 40 feet sunken area created during the drilling of a relief well, located in the southeast corner of the proposed plant site. AECOM observed one geothermal well located in the southwest corner of the proposed plant site. Darkened surface soils were observed in the southwest corner of the proposed plant site. The darkened soils appear to be located in a former hay bail storage area, which measured approximately 50 feet by 30 feet, and was limited to the upper four inches of the surface soils. The darkened surface soils appeared to contain decaying and/or molding hay matter. A current hay bail storage area was observed on the eastern border of the proposed plant site. A sump/staging area was observed in the northwest corner of the site. Generally, the remaining portions of the proposed plant site are agriculturally developed. Varying amounts of miscellaneous trash and debris (e.g., tires, bottles, and household-type items) were observed scattered at the four corners of the site.

Adjacent to the southeast corner of the proposed Project plant site, AECOM observed approximately six geothermal wells and associated piping. Two geothermal wells were located north of the proposed Injection Well OB2. Additionally, utility-owned pole-mounted transformers, potentially containing PCB, were observed running along Grubbel Road. No stains, leaks, or evidence of a release in the vicinity of the transformers were observed during AECOM's site visits. No staining or visual evidence of a hazardous materials release was observed on or in the immediate vicinity of the subject property.

The majority of the surrounding properties are developed with agricultural land. Agriculture/crops in the area consist primarily of lettuce, asparagus, carrots, onions, alfalfa, sugarcane, and sweet beets. Generally speaking, the surrounding properties are paved and unpaved roads, agriculturally developed land, the

Vulcan/Hoch power plants, and the Salton Sea National Wildlife Refuge. Additionally, portions of the subject property are bordered by CalEnergy's administration, warehousing and waste disposal staging site (7030 Gentry Road), and the Vulcan and Hoch power plants (7001 and 7029 Gentry Road, respectively). Approximately eight geothermal wells were observed adjacent to the subject property; approximately six were located northeast of the intersection of Boyle Road and Peterson Road (adjacent to the east of the proposed plant site), and two were located at the northwest corner of the intersection of Montgomery Road and Gentry Road (to the north of proposed Injection Well OB2). Overhead high-voltage power lines with pole-mounted transformers and their associated utility ROW are generally located along the adjoining roadways.

The subject property was not identified in a search of environmental databases provided by Environmental Database Resources, Inc. (EDR) and reviewed by AECOM. In addition, no offsite sources of concern were identified in the environmental database search report or during AECOM's reconnaissance of the surrounding area.

Historical research indicates that the subject property and surrounding sites have remained agriculturally developed since the early 1900s. The Vulcan Power Plant (located east of the proposed plant site) with associated structures/buildings was first noted in a 1981 aerial photograph. The Chevron (former Unocal) parcel (located adjacent to the east and southeast of proposed Injection Well OB1) with associated structures/buildings was first noted in a 1981 aerial photograph. Generally speaking, the subject property and surrounding sites are located in an area highly developed with agriculture and dispersed geothermal plants.

AECOM performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the subject property. Any exception to, or deletions from, this practice are described in Section 1.0 of the report. Based on AECOM's site visit; review of governmental environmental databases, files, and historical documents; and interviews conducted with selected individuals, this assessment has revealed no Recognized Environmental Conditions (RECs), Historical RECs, or de minimis conditions in connection with the subject property.

# Contents

<b>1.0 Introduction .....</b>	<b>1-1</b>
1.1 Purpose.....	1-1
1.2 Scope of Work .....	1-1
1.3 Study Limitations .....	1-1
1.4 Data Failure/Data Gaps.....	1-2
<b>2.0 Site Description .....</b>	<b>2-1</b>
2.1 Site Location .....	2-1
2.2 Site Ownership .....	2-1
2.3 Site Visit .....	2-2
2.3.1 Site Description .....	2-2
2.3.2 Building Description .....	2-3
2.3.3 Surrounding Properties.....	2-3
2.3.4 Petroleum Hydrocarbons and Hazardous Materials.....	2-4
2.3.5 Aboveground Storage Tanks (ASTs) .....	2-4
2.3.6 Underground Storage Tanks (USTs) .....	2-4
2.3.7 Solid Waste .....	2-4
2.3.8 Stormwater.....	2-4
2.3.9 Utilities .....	2-4
2.3.10 Polychlorinated biphenyls (PCBs).....	2-4
<b>3.0 Environmental Setting .....</b>	<b>3-1</b>
3.1 Topography.....	3-1
3.2 Soil .....	3-1
3.3 Groundwater .....	3-1
<b>4.0 Site and Area History .....</b>	<b>4-1</b>
4.1 Subject Property .....	4-1
4.2 Adjacent Sites .....	4-1
4.3 Previous Environmental Report .....	4-2
<b>5.0 Database and Records Review.....</b>	<b>5-1</b>

5.1 User Provided Information..... 5-1

5.2 Title Records/Environmental Liens ..... 5-1

5.3 Database information ..... 5-1

    5.3.1 Subject Property..... 5-2

    5.3.2 Surrounding Sites..... 5-2

5.4 Agency review ..... 5-3

    5.4.1 California - State Water Resources Control Board..... 5-3

    5.4.2 Department of Toxic Substances Control ..... 5-3

    5.4.3 United States Environmental Protection Agency ..... 5-3

**6.0 Conclusions and Recommendations ..... 6-1**

**7.0 Quality Control/Quality Assurance ..... 7-1**

    7.1 Site Visit, Research, and Report Preparation:..... 7-1

    7.2 Quality Control Review ..... 7-1

    7.3 Environmental Professional Statement..... 7-2

**8.0 References..... 8-1**

    8.1 Persons Interviewed/Agencies Contacted..... 8-1

    8.2 Documents Reviewed ..... 8-1

**List of Figures**

Figure 1 – Site Location Map

Figure 2 – Site Plan

**APPENDICES**

- A Representative Site Photographs
- B Environmental Database Report
- C Qualifications of Environmental Professionals

## 1.0 Introduction

### 1.1 Purpose

The purpose of this Environmental Site Assessment (ESA) is to provide the client with information for use in evaluating potential environmental concerns associated with the subject property.

### 1.2 Scope of Work

The Phase I ESA included a site visit, regulatory research, historical review, and environmental database search of the Amended Salton Sea Unit 6 (SSU6) Project. The Project includes an approximately 160-acre proposed plant site, three approximately 4.7-acre properties representing the three proposed injection well pad sites, approximately 3.22 miles of right-of-way (ROW) for proposed brine injection pipelines, and a borrow site. The site is located in Imperial County, California (subject property). In conducting the Phase I ESA, AECOM assessed the subject property for visible signs of possible contamination, researched public records for the subject property, and conducted interviews with representatives from the property owner. This project was performed in general accordance with American Society for Testing and Materials (ASTM) Standard Practice Designation E 1527-05.

AECOM's standard terms and conditions for this report include, in addition to the ASTM Phase I ESA scope of work, visual assessment of equipment with the potential to contain polychlorinated biphenyls (PCBs). Conclusions made in this report are based upon the assessment performed and are subject to the study limitations presented in Section 1.3.

### 1.3 Study Limitations

This report describes the results of AECOM's due diligence assessment to identify the presence of environmental liabilities materially affecting the subject facility and/or property. In the conduct of this due diligence assessment, AECOM assessed the presence of such problems within the limits of the established scope of work for this work.

In the conduct of this due diligence assessment, AECOM has attempted to independently assess the presence of such problems within the limits of the established scope of work as described in our change order. As with any due diligence assessment, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable through visual observations or supported by any available written documentation. AECOM shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by AECOM in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of

AECOM's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report is prepared pursuant to an agreement between the client and AECOM and is for the exclusive use of the client. No other party is entitled to rely on the conclusions, observations, specifications, or data contained herein without first signing an AECOM generated Reliance Letter. A third party's signing of the AECOM Reliance Letter is a condition precedent to any additional use or reliance on this report.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should AECOM be required to review the report after six months from its date of submission, AECOM shall be entitled to additional compensation at the existing rates or such other terms as may be agreed upon between AECOM and the client.

#### **1.4 Data Failure/Data Gaps**

Per ASTM E 1527-05, interviews with past owners, operators, and occupants of the subject property, who are likely to have material information regarding the potential for contamination at the subject property, shall be conducted to the extent that they can be identified and that the information likely to be obtained is not duplicative of information already obtained from other sources. AECOM was unable to directly interview past owners, operators, and occupants at the subject property. This gap represents a limitation to this assessment; however, this limitation is not expected to change the outcome of the report based on historical information gathered from other sources, which are documented throughout this report.

The earliest source of historical information, provided by CalEnergy from their interviews with personnel associated with the subject property and its history, determined that the subject property has been extensively used for agriculture (a developed use per the ASTM Standard) and/or left natural since the early 1900s. Therefore, the ASTM E1527 requirement to determine all previous uses of the subject property from the present back to the subject property's first obvious developed use, or back to 1940, whichever is earlier, could not be achieved. However, based upon knowledge of the historically agricultural use and/or natural state of the property, it is unlikely that there had been significant prior development, which is consistent with personnel associated with subject property and its history; therefore, this limitation is not anticipated to adversely impact this assessment.

As specified in the agreed upon scope-of-work, a title search and environmental lien search was not conducted as part of this ESA. However, based upon historical data collected from other sources, this data gap is not expected to have an impact on this assessment.

## 2.0 Site Description

### 2.1 Site Location

The subject property is located south of the Salton Sea, in unincorporated Calipatria within Imperial County, California. The Salton Sea is located approximately 650 feet north northwest of the proposed plant site at its closest point. The subject property is accessed from Highway 111 approximately five miles east of the subject property or from Highway 86 approximately 7.5 miles south of the subject property. The community of Calipatria is located approximately six miles east of the subject property. The approximate location of the subject property is illustrated on Figure 1 - Site Location Map.

### 2.2 Site Ownership

Site ownership information was provided by Applicant representatives. The subject property is located on several parcels owned by several entities, as follows:

Portion of Subject Property	Owner
Proposed Salton Sea Unit 6 Plant (SSU6)	CalEnergy (under Imperial Magma)
Proposed Injection Well OB1	John Elmore (Kudu Inc.)
Proposed Brine Injection Pipeline OB1	John Elmore (Kudu Inc.) & CalEnergy (under Imperial Magma)
Proposed Injection Well OB2	John Elmore (Kudu Inc.)
Proposed Brine Injection Pipeline OB2	John Elmore (Kudu Inc.) & Union Oil Corporation & CalEnergy (under Imperial Magma)
Proposed Injection Well OB3	CalEnergy (under Imperial Magma)
Proposed Brine Injection Pipeline OB3	CalEnergy (under Imperial Magma)
Borrow Site	CalEnergy (under Imperial Magma)

CalEnergy has owned their portions of the subject property since 1996, at which time they purchased the land from Roy B. and Louise J. Woolsey. Based on interviews conducted by Applicant personnel with John and Howard Elmore, they have been farming their land for more than 50 years. Additional information provided by the Applicant indicates that the proposed plant site was once owned by the California Development Company in the late 1800s and early 1900s, which was then sold to the Southern Pacific Railroad around 1912. AECOM was unable to obtain information indicating how long the Woolsey's have owned their portions of the subject property.

## 2.3 Site Visit

Ms. Cassandra Weir of AECOM's Camarillo, California office visited the subject property on September 31 and December 11, 2008 and Mr. Jonathan Aguayo of AECOM's Camarillo, California office visited the subject property on November 5, 2008. Ms. Weir was accompanied by Mr. Michael Fawdry, (Applicant's consultant) and Mr. Mark Gran, CalEnergy Vice President for Real Estate Assets and Community Relations (hereafter indicated as "site contacts") during the September 31, 2008 site visit. Additional interviews were conducted with Ms. Sandra Vasquez, Land Specialist with CalEnergy Operating Corporation. Representative photographs taken during the site visit are provided as Appendix A.

The site visit methodology consisted of driving/walking the perimeter of the proposed plant site, the three proposed injection well pad locations and the borrow site, and driving the proposed brine injection pipeline routes. The proposed plant site was observed from the vehicle and accessible roadways, with close attention paid to each corner portion of the property (as this housed various equipment and/or structures) near the most readily accessible road ROWs. The injection well pad locations were observed from accessible roadways, the proposed brine injection pipeline routes were observed from the vehicle, and the borrow site was observed from the vehicle and from walking around. The following sections summarize the results of the site visit.

### 2.3.1 Site Description

The subject property consists of an approximately 160-acre proposed plant site, three approximately 4.7 acre areas representing the proposed injection well pad sites, approximately 3.22 miles of ROW for the proposed brine injection pipelines running from the proposed plant site to the three proposed injection well pad sites, and a borrow site. The majority of the subject property is irrigated agricultural land. The subject property affects areas designated as Prime Farmland or Farmland of Statewide Importance. The subject property is currently occupied by agricultural land, unpaved access roadways for agricultural/site use, two bare concrete pads, three geothermal wells (M-8, M6-B, and DR-12), one electrical equipment room measuring approximately 7 feet by 5 feet, an approximately 60 feet by 40 feet sunken area created during the drilling of a relief well, a sump/staging area, hay bail storage area, and a pilings area (concrete, gravel, and sand). The two bare concrete pads were observed in the northeast corner of the proposed plant site; the geothermal well M-8 was observed in the southwest corner of the proposed plant site; geothermal wells M6-B and DR-12, the electrical room, and the sunken area were observed in the southeast corner of the proposed plant site; the sump/staging area (agricultural use) was observed in the northwest corner of the site; the hay bail storage area was observed along the eastern border of the site; and the pilings area was observed on the eastern portion of the borrow site.

The proposed plant site is located in unincorporated Imperial County south of McKendry Road, west of Boyle Road, north of Grubbel/Peterson Road, and east of Severe Road. The proposed brine injection pipelines will originate from the proposed SSU6 Plant and connect to the three proposed injection well pad sites. Proposed injection well pad OB1 is located northwest of the intersection of Lindsey Road and Boyle Road. The associated proposed brine injection pipeline OB1 originates from the southeastern corner of the proposed plant site, extending east to the intersection of Peterson Road and Boyle Road and continuing south along Boyle Road, where it connects to proposed Injection Well OB1. Injection well pad OB2 is located at the southwest corner of the intersection of Montgomery Road and Gentry Road. The associated

proposed brine injection pipeline OB2 originates from the southeast corner of the proposed plant site, extending east to the intersection of Peterson Road and Boyle Road where it travels diagonally southeast to Gentry Road and then south along Gentry Road where it reaches proposed injection well pad OB2. Proposed injection well pad OB3 is located at the northwest corner of the intersection of Peterson Road and Cox Road. The associated proposed brine injection pipeline originates from the northeastern corner of the proposed plant site, extending east along McKendry Road and then diagonally southeast from the intersection of McKendry Road and Gentry Road where it connects to injection well pad OB3. The borrow site is located south of Peterson Road between Boyle Road and Gentry Road.

During the site visit, no visual evidence of groundwater monitoring wells, clarifiers, or dry wells, were observed on the subject property. In addition, no water, unusual vegetative conditions, staining or visual evidence of a hazardous materials release was observed at the time of AECOM's site visit. The approximate layout of the subject property is illustrated in Figure 2 – Site Plan.

### **2.3.2 Building Description**

AECOM observed two empty concrete pads on the northeast corner of the proposed plant site. There was no evidence of a prior structure on these pads. As described above, one electrical equipment room was located in the southeast corner of the proposed plant site.

### **2.3.3 Surrounding Properties**

The majority of the surrounding sites are developed with agricultural land. Agriculture/crops in the area consist primarily of lettuce, asparagus, carrots, onions, alfalfa, sugarcane, and sweet beets. The proposed plant site is bordered to the north by unpaved McKendry Road, beyond which is the Salton Sea National Wildlife Refuge (as depicted in the topographic map) and the Salton Sea. Bordering the site on the east is unpaved Boyle Road, beyond which is fallow land and the Vulcan/Hoch Power Plants, including approximately six geothermal wells. On the south, the proposed plant site is bordered by unpaved Grubbel/Peterson Road, beyond which is agriculturally developed land; and on the west by unpaved Severe Road, beyond which are wetlands associated with the Salton Sea.

Injection well pad OB1 is bordered to the north, west, and south by agriculturally developed land and to the east by Boyle Road, beyond which is agriculturally developed land and/or land occupied by Chevron (formerly Unocal). Injection well pad OB2 is bordered to the north by an unpaved roadway, beyond which is agriculturally developed land; to the east by Gentry Road, beyond which is agriculturally developed land; and to the south and west by agriculturally developed land. Injection well pad OB3 is bordered to the north and west by agriculturally developed land and to the south and east by unpaved roadways, beyond which are agriculturally developed land. Additionally, a portion of the proposed brine injection pipeline OB3 is bordered by CalEnergy's administration, warehousing, and waste disposal staging site (7030 Gentry Road).

Approximately eight geothermal wells were observed adjacent to the subject property; approximately six were located north of the intersection of Boyle Road and Peterson Road (adjacent to the east of the proposed SSU6 Plant), and two were located at the northwest corner of the intersection of Montgomery Road and Gentry Road (to the north of injection well pad OB2). The borrow site is bordered to the north by the Vulcan/Hoch power plants; to the east by Gentry Road, beyond which is agriculturally developed land; and to the south and west by agriculturally developed land.

The approximate location of these features is illustrated in Figure 2.

#### **2.3.4 Petroleum Hydrocarbons and Hazardous Materials**

No petroleum hydrocarbons or hazardous materials were observed on the subject property during AECOM's site visit.

#### **2.3.5 Aboveground Storage Tanks (ASTs)**

No ASTs were observed on the subject property during AECOM's site visit.

#### **2.3.6 Underground Storage Tanks (USTs)**

No visual evidence of fuel-related USTs (e.g., vent pipes, fill ports) was observed on the subject property during the site visit. In addition, no USTs were listed in the environmental database report reviewed by AECOM, nor did the site contacts indicate knowledge of current or historical USTs at the subject property.

#### **2.3.7 Solid Waste**

As the subject property is currently agricultural land, no solid waste is currently generated onsite. No dumpsters or trash enclosures were observed on the subject property during AECOM's site visit. Varying amounts of miscellaneous trash and debris (e.g., tires, bottles, and household-type items) were scattered at the four corners of the proposed Amended Project plant site.

#### **2.3.8 Storm Water**

As the subject property is currently agricultural land, irrigation piping and adjacent concrete V-shaped irrigation swales (United States Geological Survey [USGS] topographic maps indicate "vail lateral drain") were observed along the perimeter of the agriculture parcels. No municipal storm water systems (e.g., drains, catch basins) were observed in association with the subject property during AECOM's site visit.

The Amended Project plant site will be surrounded by a flood control berm. Onsite drainage will be to an onsite detention basin. No storm water flows will leave the plant site when the Project is operational.

#### **2.3.9 Utilities**

No utilities currently service the subject property. No evidence of utilities was observed on the subject property during AECOM's site visit.

Overhead high-voltage power lines with pole-mounted transformers and their associated utility ROW are generally located along the adjoining roadways.

#### **2.3.10 Polychlorinated biphenyls (PCBs)**

Utility-owned pole-mounted transformers were observed running along Grubbel Road to the south of the proposed SSU6 Plant. AECOM did not observe leaks or stains associated with the pole-mounted

transformers located along the adjoining roadways. AECOM observed capacitors stored on wooden pallets; however, this electrical equipment does not contain PCB fluids.

## 3.0 Environmental Setting

### 3.1 Topography

The Project area is fairly flat. According to the USGS topographic map of the subject property area (Niland, California, quadrangle), the elevation of the subject property ranges between approximately 216 feet below mean sea level (msl) at the site of injection well pads OB1 and OB2 to approximately 230 feet below msl at the northwestern corner of the proposed plant site.

### 3.2 Soil

The subject property is underlain by soil mapping units formed primarily on flood plains and alluvial basin floors and is generally composed of very deep soils, slow runoff, and low-to-high shrink-swell potential. The two soil types found at the proposed plant site are the Imperial-Glenbar Silty Clay Loams (wet) and Hotville Silty Clay (wet). The Imperial-Glenbar Silty Clay Loams (wet) is moderately well drained and water movement in the most restrictive layer is moderately high. This soil type is susceptible to moderate-to-high water erosion and moderate wind erosion. Hotville Silty Clay (wet) has moderate-to-high water erosion and moderate wind erosion potential. Water movement for the most restrictive layer is low for this soil type. This soil type is neither flooded nor ponded. Soil types found near the injection well pads and pipelines are loam (wet), Imperial Silty Clay, Imperial Silty Clay (wet), Indo loam (wet), Meloland Fine Sand, Meloland Very Fine Sandy Loam (wet), Meloland and Hotville Loams (wet), Niland Gravely sand (wet), and Vint Loamy Very Fine Sand (wet).

### 3.3 Groundwater

The subject property is located within the Imperial Hydrologic Unit of the Imperial Valley Planning Area. The Imperial Valley Planning Area encompasses approximately 2,500 square miles. Variable confining clay beds and hydraulic heads lead to inconsistent water levels within the basin. The main source of groundwater recharge to the shallow aquifer system is imported Colorado River water that seeps from canals and is applied as irrigation. Shallow groundwater, ranging in depths from approximately 5 to 20 feet, is drained by an extensive network of ditches and drains in agricultural areas as well as into the Alamo and New Rivers that then drain to the Salton Sea. Because of extensive irrigation, the Project's proximity to the Salton Sea, and the adjacent agricultural ditch to the west, a shallow water table is often present at depths of 36 to 60 inches, and can rise to a depth of 18 inches during periods of heavy irrigation. The average groundwater gradient has been estimated at approximately 28 feet per mile toward the west near Niland and approximately 9 feet per mile toward the northeast near Calipatria. The primary source of groundwater recharge in both areas is suspected to be seepage from the East Highline and Coachella Canals.

## 4.0 Site and Area History

Historical information for the subject property and surrounding properties is based on AECOM's review of the following:

- Aerial photographs dated 1981, 1984, 1996, 2002 and 2005;
- Historical city directories from 1981 and 2006;
- Interviews with Applicant representatives (Mr. Mark Gran and Mr. Mike Fawdry); and
- Topographic maps dated 1943, 1947, 1956, and 1992.

According to EDR, no Sanborn<sup>®</sup> fire insurance maps are available for the subject property. One previously-prepared environmental report was provided for AECOM's review during the course of this assessment. A review and analysis of this report is provided in Section 4.3.

### 4.1 Subject Property

The subject property has been agriculturally developed land with adjacent agricultural roadways since at least the early 1980s, according to reviewed historical aerial coverage of the area. According to Mr. Gran, who obtained information from John and Howard Elmore (site owner) and Vince Signorotti (formerly employed by CalEnergy), the subject property has been extensively used for agriculture since the early 1900s. The corners of the proposed plant site appear to have been used at one time for operating a sump, storage/laydown areas, and geothermal wells (and associated piping for the geothermal wells utilized at the Vulcan/Hoch power plants), which are shown as disturbed areas with scattered structures in the aerial photographs. Two circular structures (possibly ASTs) were located in the northeast corner, specifically in the 1984 aerial. As noted in Section 4.3, the subject property was reported to house one approximately 5,000-gallon AST in the northeast corner of the subject property; however, AECOM did not observe this during their site visit and there was no indication to what was stored within the AST. No additional evidence of previous structures, dwellings, or commercial activity was identified during AECOM's review of historical information.

### 4.2 Adjacent Sites

Historical research indicates that the surrounding sites have generally remained developed with agriculture. According to Ms. Sandra Vasques, the Vulcan Power Plant is located at 7001 Gentry, Del Ranch Power Company is currently identified as Hoch and is located at 7029 Gentry Road, and CalEnergy's administration, warehousing, and waste disposal staging site is located at 7030 Gentry Road. The Chevron-owned parcel (formerly Unocal), located to the east of proposed injection well pad OB1, and the Vulcan/Hoch Power Plants, located east of the proposed SSU6 plant site, are shown with several

structures/buildings in the 1981 aerial and 1992 topographic map. The 1981 and 1986 city directories list CDK Contracting Company, Chicago Cooling Towers, Nooter Construction Company, and Wetcor at 7001 Gentry Road (reported as the Vulcan Power Plant address by the Applicant); Del Ranch Power Company and Magna Power Dow Engineering at 7029 Gentry Road; and Burlington No Geothermal and Vulcan Power Company at 7051 Gentry Road. The 1984 and 1996 aerials and 1992 topographic map shows/depict the Vulcan/Hoch power plants and the Chevron (Unocal) parcel with additional structures/buildings encompassing a larger area of land. In the 2002 and 2005 aerials, additions to the Vulcan/Hoch power plant and to CalEnergy's administration, warehousing, and waste disposal staging site are shown. The 2001 and 2006 city directories list CalEnergy Operating Company at 7030 Gentry Road.

The topographic maps depict "vail lateral drain(s)" which were observed by AECOM during the site visits and described as concrete V-shaped irrigation swales. Generally speaking the subject property and surrounding sites are located in an area highly developed with agriculture, dispersed with geothermal plants and the Salton Sea, wetlands, and wildlife areas. Based on AECOM review of the environmental database report prepared by EDR, observations made during the site visit/reconnaissance, a review of a previously prepared site assessment report (Section 4.3), and a review of possible agency listings, the adjacent sites are not expected to present a concern at the subject property.

### 4.3 Previous Environmental Report

AECOM was provided with and reviewed one environmental report that was previously prepared for the subject property (which appears to include only the proposed SSU6 Plant portion only). AECOM's review and analysis of this report is summarized below.

***Phase I Environmental Site Assessment, Salton Sea Unit 6, Imperial County, California, dated January 29, 2002. Prepared for MidAmerica Energy of Omaha, Nebraska by URS of San Diego, California. URS Project No. 8-00161046.03-01400.***

This report includes the portion of this assessment described as the proposed plant site. The subject property and adjacent site uses were described similarly as they appeared at the time of AECOM's site visit. URS noted an empty plastic AST (estimated capacity 5,000 gallons) and three concrete slabs with what appeared to have piping trenches located in the northeastern portion of the proposed plant site. URS indicated the concrete slabs had cracked surfaces and "the arrangement observed suggested the area may have been used for storage of agricultural chemicals or fertilizers." During the site visit, AECOM did not observe an AST located at the proposed plant site. However, AECOM did observe the concrete slabs identified in the northeastern corner of the proposed plant site. URS indicated the following additional on site and nearby features: pole-mounted transformers around the perimeter of the plant site (with no evidence of leakage or staining observed); wetlands located to the west and northwest and the Salton Sea located within ~600 feet of the proposed plant site.

URS also noted black sheeting and a burned area with bottles, wire, tires, and other debris located in the southwest corner of the proposed plant site; lateral drains, sumps, and pumps (which AECOM observed located throughout the region; information indicated that it is typically the property of Imperial Irrigation District for maintaining groundwater in the region) in the northwest corner of the proposed plant site; and three onsite geothermal wells (identified as M-8 in the southwest, M-9 and DR-12 in the southeast). URS's

observations are generally consistent with AECOM's observations. However, the boundaries of the URS "plant site" and the proposed Amended Project plant site appear to be somewhat different: during AECOM's current assessment, the M-8 geothermal well was determined to be located onsite, while the remaining two geothermal wells are located offsite and associated with the Vulcan/Hoch Power Plants located east of the Amended Project plant site. Additional specific inconsistencies between URS and AECOM's observation are discussed below.

URS indicated the following as Recognized Environmental Conditions (RECs) associated with the Plant Site:

- "Possible impacts from the unknown use of concrete slabs and possible chemical storage in the northeast portion of the subject property.
- Possible impacts from the existing geothermal wells and historical geothermal explorations conducted in the southwest, southeast, northwest and northeast portions of the subject property.
- Possible impacts from the burned area observed in the southwest portion of the subject property. Potential pesticide and herbicide contamination of surface and subsurface soil, due to past agricultural practices on the property may have included the use of currently regulated and banned substances, such as organochlorine pesticide and chlorinated herbicides."

It is AECOM's opinion that none of these issues meets the definition of REC. The following is AECOM's rationale for this opinion.

- According to the 2002 Phase I ESA report, URS did not observe visual evidence of staining and/or a hazardous materials release on the concrete or in the immediate vicinity of the slabs. In addition, according to the report, the slabs were surrounded by broccoli fields. No distressed vegetation that would be indicative of a hazardous materials release was observed in vicinity of the concrete slabs. During the September 31, 2008 and November 5, 2008 site visits, AECOM observed this area. Additionally, according to the Applicant, the bare concrete pads were reported to be the well pads for former wells, MM4, which have been plugged and abandoned (however, the date was not disclosed to AECOM). It is AECOM's opinion that URS's conclusion that the concrete slab represents a REC is overly speculative, and not corroborated by the supporting documentation. In AECOM's judgment, the slab is not a REC.
- According to the 2002 Phase I ESA, URS did not observe visual evidence of staining or a hazardous materials release near or in the immediate vicinity of the geothermal wells. In addition, according to the report the wells were surrounded by a broccoli field. No distressed vegetation that would be indicative of a hazardous materials release was observed in vicinity of the geothermal wells. AECOM observed this area during the November 5 and December 11, 2008 site visits. It is AECOM's opinion that URS's conclusion that the wells represent a REC is overly speculative and not corroborated by the supporting documentation. In AECOM's judgment, the wells do not represent a REC.
- According to the Phase I ESA, URS observed a burned area in the southwest corner of the subject property. The burned area reportedly contained bottles, wire, tires and other debris. AECOM observed

this area in the southwest corner of the subject property during the December 11, 2008 site visit. Based on the site visit observations, this area appears to have been a former hay bail storage area. The darkened surface soils appeared to contain decaying and/or molding hay matter. The decaying matter was limited to approximately the upper four inches of the surface soil. The area of discolored soils measured approximate 50 feet by 30 feet. AECOM did not observe evidence of hazardous materials or debris in the vicinity of the former hay bail storage area. It is AECOM's opinion that this area is not a burn area but was a former hay bail storage area. AECOM does not consider this a REC.

- URS concluded that the past agricultural pesticide and herbicide applications to the subject property are REC. While AECOM agrees that residual concentrations of organochlorine pesticides may be present in shallow soil of the subject property, as is common throughout much of the agricultural regions of California, they are rarely found at concentrations that would be subject to a regulatory enforcement action. In addition, it has been AECOM's experience that chlorinated herbicides are not typically prevalent in the environment (due to their limited half-life), and therefore are rarely found in agricultural soils of California. Based on this information, it is AECOM opinion that chlorinated herbicides and the potential presence of residual concentrations of organochlorine pesticides in the shallow onsite soils are not a REC.

## 5.0 Database and Records Review

### 5.1 User Provided Information

AECOM contacted Mark Gran (Applicant representative) regarding his knowledge of title records, environmental liens, specialized knowledge, and/or real estate value reduction issues associated with the subject property. Mr. Gran was not aware of environmental cleanup liens or activity use limitations that had been placed on the subject property. Mr. Gran stated that he did not have specialized knowledge or experience that is material to recognized environmental conditions (RECs) in connection with the subject property. It was Mr. Gran's opinion that the purchase price of the subject property reflected its fair market value.

Mr. Gran stated that it was his impression that the subject property has been vacant undeveloped land with no historical development. He indicated that past uses of the subject property have been farming. He was unaware of the specific chemicals, spills, chemical releases, or environmental cleanups that may have taken place on the subject property. Mr. Gran's opinion was that there were no obvious indicators pointing to the presence or likely presence of contamination at the subject property.

### 5.2 Title Records/Environmental Liens

As specified in the agreed upon scope-of-work, an independent title and lien search was not conducted as part of this ESA. Based on AECOM's assessment of land use and historical research, it is AECOM's opinion that an environmental lien is unlikely to have been placed on the subject property.

### 5.3 Database information

In accordance with the scope of work and ASTM Standard E-1527-05, a search of various governmental databases was conducted by EDR. The EDR report was reviewed to determine the potential for environmental impacts to the subject property from onsite and/or offsite sources of concern. The database abbreviations are provided in the EDR report. Sites that could not be mapped by EDR were researched by AECOM during the site reconnaissance and assessment.

Due to the size of the subject property (approximately 1.3 miles north-south and 1.5 miles east-west) the radius was extended one mile from the specified point in order to fully capture the subject property and area within the ASTM 1527-05 required standard search distances. The area covered in the EDR report extends beyond the search distances required by ASTM 1527-05. A summary of the results of the EDR database search are presented below. A list of the databases searched and the search distances are provided in the EDR report. A copy of the database report is provided in Appendix B.

Based on AECOM's research, the subject property is not located on or within a one-mile radius of tribal lands.

### 5.3.1 Subject Property

A portion of the Vulcan power plant is located on the subject property, specifically the southeast corner of the proposed plant site. The Vulcan power plant was identified on the environmental database report; however, because only a small portion (not including the main infrastructure of the facility) is located on the subject property, this has been discussed below in Section 5.3.2.

### 5.3.2 Surrounding Sites

Two of the surrounding sites were identified in the environmental database report and/or orphan sites summary. These are discussed below:

- **Vulcan Geothermal Plant**, located at 7001 Gentry Road, portions of which are located adjacent to the subject property, was identified on the ERNS, CHIMRS, WUMDS/SWAT, RCRA-LQG, and HAZNET databases searched by EDR. Vulcan is located between proposed Injection Well OB3 (to the east) and the proposed Amended Project plant site (to the west). The Vulcan site is currently owned/operated by CalEnergy, and the site is identified as Vulcan/Hoch. The ERNS listing indicates a release of approximately 150 gallons of geothermal brine onto the soils on September 30, 1991. The release occurred due to an air bubble in the well that caused spray to hit the ground around the well site. The spill was reported to be cleaned up by Vulcan. The CHIRMS listing indicates that Vulcan spilled approximately 265 gallons of bleach at their site on October 31, 2000 and Vulcan spilled approximately 47 gallons of bleach at their site on February 3, 2001. The spills were caused by failure of the sight tube, which caused the release to the ground (a process unit holding the geothermal brine overflowed spilling).

The WMUDS/SWAT listing indicates the site as an industrial facility, with wastes including Drilling Brine Water and Drilling Muds. These wastes create a possible threat to water quality (e.g. hardness, chloride levels), thus they have a registered listing and Waste Discharge Requirements permit. The HAZNET listing reported wastes including other inorganic solid waste; alkaline solution without metals (pH > 12.5); other inorganic solid waste; liquids with pH <UN-> 2; off-specification, aged, or surplus organics; liquids with cadmium > 100 milligrams per liter (mg/l); other organic solids; oil/water separation sludge; unspecified sludge waste; liquids with pH <UN-> 2 with metals; contaminated soil from site cleanups; aqueous solution with 10 percent or more total organic residues; and liquids with pH <UN-> 2. Disposal methods vary among tank treatment, transfer station, land fill disposal, incineration treatment, recycler, etc. However, no violations were reported regarding the generator status.

- **C AND L DR LG CO INC**, located at 7051 Gentry Road (possible spelling error to be Gentry) in Calipatria, was identified on the Haznet database searched by EDR. The HAZNET listing indicates the disposal of contaminated soil from site cleanups which was disposed of at a disposal landfill. As searched on GoogleEarth (under the address 7051 Gentry Road), the site is located approximately 700 feet south of proposed Injection Well OB2.

Based on the non-contamination related nature of the database listings, the case status of the database listings, and/or distance of the site relative to the subject property, the sites listed do not present a REC at the subject property.

No additional offsite sources of concern were identified in the environmental database report, or during AECOM's area reconnaissance.

## **5.4 Agency Review**

### **5.4.1 State Water Resources Control Board**

AECOM conducted a records search of the subject property on the California Environmental Protection Agency's State Water Resources Control Board online GeoTracker database. The GeoTracker database regards contaminated property investigations consisting of LUFT, SLIC, Land Disposal, DOD (non-UST), Wells, and UST sites at sites throughout California. No records were found for the subject property.

### **5.4.2 Department of Toxic Substances Control**

AECOM searched the California Department of Toxic Substances Control (DTSC) online EnviroStor database for California Cleanup Sites involving the DTSC. The EnviroStor database consists of Federal National Priority List (NPL) sites, state response sites, voluntary cleanup sites, and school cleanup sites. No records were found for the subject property.

Additionally, AECOM submitted a records request to the DTSC (Certified Unified Program Agency [CUPA] for Imperial County) Calexico office regarding records associated with the subject property. No records were found for the subject property.

### **5.4.3 U.S. Environmental Protection Agency**

AECOM searched the U.S. Environmental Protection Agency's (EPA) Enforcement & Compliance History Online (ECHO) and online Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) databases. The ECHO database consists of EPA compliance history at a site. The CERCLIS database consists of sites being assessed under the Superfund program (NPL sites), hazardous waste sites, and potential hazardous waste sites. No records were found for the subject property.

## **6.0 Conclusions and Recommendations**

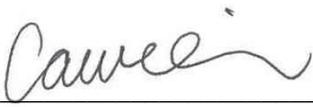
AECOM performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the subject property. Any exception to, or deletions from, this practice are described in Section 1.0 of the report.

Based on AECOM's site visit; review of governmental environmental databases, files, and historical documents; and interviews conducted with selected individuals, this assessment has revealed no RECs, Historical Recognized Environmental Concerns, or de minimis conditions in connection with the subject property.

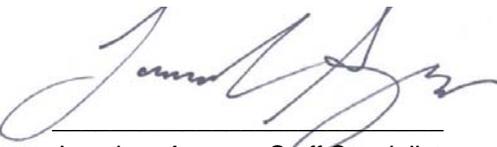
## 7.0 Quality Control/Quality Assurance

### 7.1 Site Visit, Research, and Report Preparation:

The site visit, research and report preparation were conducted by Ms. Cassandra Weir, Staff Specialist in AECOM's Camarillo, California office. Ms. Weir completed this report on December 17, 2008. Ms. Weir has over 3 years of environmental due diligence experience and has performed and/or managed Phase I ESAs of commercial and industrial property located throughout the Western United States. Ms. Weir's signature is below.

Signature:   
Cassandra Weir, Staff Specialist

An additional site visit with associated research and report preparation was conducted by Mr. Jonathan Aguayo, Staff Specialist in AECOM's Camarillo, California office. Mr. Aguayo completed this report on November 20, 2008. Mr. Aguayo has less than 1 year of environmental due diligence experience and has performed several Phase I ESA's of commercial properties in Southern California. Mr. Aguayo's signature is below.

Signature:   
Jonathan Aguayo, Staff Specialist

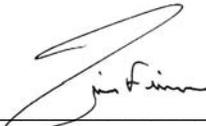
### 7.2 Quality Control Review

A first level review of this report was conducted by Ms. Kirsten Bradford, Project Specialist in AECOM's Camarillo, California, office. Ms. Bradford completed her review of this report on November 21, 2008. Ms. Bradford has 5 years of environmental due diligence experience and has performed and/or managed hundreds of Phase I ESAs of commercial and industrial property located throughout the Western United States. Ms. Bradford's signature is below and her resume is included in Appendix C.

Signature:   
Kirsten Bradford, Project Specialist

A second level review of this report was conducted by Mr. Jim Fickerson, Senior Project Manager in AECOM's Camarillo, California, office. Mr. Fickerson completed his review of this report on November 24, 2008. Mr. Fickerson has over 14 years of environmental due diligence experience and has performed

and/or managed hundreds of Phase I ESAs of commercial and industrial property located throughout the United States. Mr. Fickerson's signature is below and his resume is included in Appendix C.

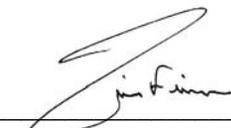
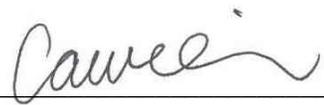
Signature:   
Jim Fickerson, Senior Project Manager

### 7.3 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property.

Signature:   
Jim Fickerson, Senior Project Manager

We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature:    
Jim Fickerson, Senior Project Manager      Cassandra Weir, Staff Specialist

Date: November 24, 2008

## 8.0 References

### 8.1 Persons Interviewed/Agencies Contacted

Fawdry, Mike P. The ICSuS Group, 110 Meeshaway Trail, Medford Lakes, NJ 08055; Phone 518.810.1395. Mail Correspondence to: CalEnergy Corporation, 7030 Gentry Road, Calipatria, CA 92233. Phone 760.348.4032, Email - [MPFawdry@aol.com](mailto:MPFawdry@aol.com).

Gran, Mark T. Vice President of Real Estate Assets and Community Relations, CalEnergy Operating Corporation. 551 West Main Street, Suite 1, Brawley, California 92227. Phone 760.351.3050, 760.604.5855, Fax 760.351.3058, Email – [mark.gran@calenergy.com](mailto:mark.gran@calenergy.com).

Vasquez, Sandra G. Land Specialist, CalEnergy Operating Corporation, 551 West Main Street, Suite 1, Brawley, California 92227. Phone 760.351.3050, Fax 760.351.3058, Email - [sandra.vasquez@calenergy.com](mailto:sandra.vasquez@calenergy.com).

### 8.2 Documents Reviewed

Aerial photograph copyrighted 2008 of the subject property. Photograph reviewed online at Google Earth website, <http://www.google.com>.

Department of Toxic Substances Control (DTSC). EnviroStor online database search conducted at <http://www.envirostor.dtsc.ca.gov/public/>. Records request sent via email to [lflorez@dtsc.ca.gov](mailto:lflorez@dtsc.ca.gov).

Environmental Data Resources (EDR), Certified Sanborn® Map Report, *The EDR-City Directory Abstract, Black Rock, Peterson Road/Gentry Road, Calipatria, CA 92233*, dated September 26, 2008. Inquiry number 2327639.3. "No coverage." Report prepared by EDR, 440 Wheelers Farms Road, Milford, Connecticut 06460, (800) 352-0050.

Environmental Data Resources (EDR), *The EDR Aerial Photos Decade Package, Black Rock, Peterson Road/Gentry Road, Calipatria, CA 92233*, dated October 01, 2008. Inquiry number 2327639.5. Aerial photographs dated 1981, 1984, 1996, 2002, and 2005. Report prepared by EDR, 440 Wheelers Farms Road, Milford, Connecticut 06460, (800) 352-0050.

Environmental Data Resources (EDR), *The EDR-City Directory Abstract, Black Rock, Peterson Road/Gentry Road, Calipatria, CA 92233*, dated October 06, 2008. Inquiry number 2327639.6. City directories dated 1981, 1986, 2001, and 2006. Report prepared by EDR, 440 Wheelers Farms Road, Milford, Connecticut 06460, (800) 352-0050.

Environmental Data Resources (EDR), *The EDR Historical Topographic Map Report, Black Rock, Peterson Road/Gentry Road, Calipatria, CA 92233*, dated October 06, 2008. Inquiry number 2327639.6.

Topographic maps dated 1943, 1956, and 1992, (Calipatria, CA and Obsidian Butte, CA, Quads). Report prepared by EDR, 440 Wheelers Farms Road, Milford, Connecticut 06460, (800) 352-0050.

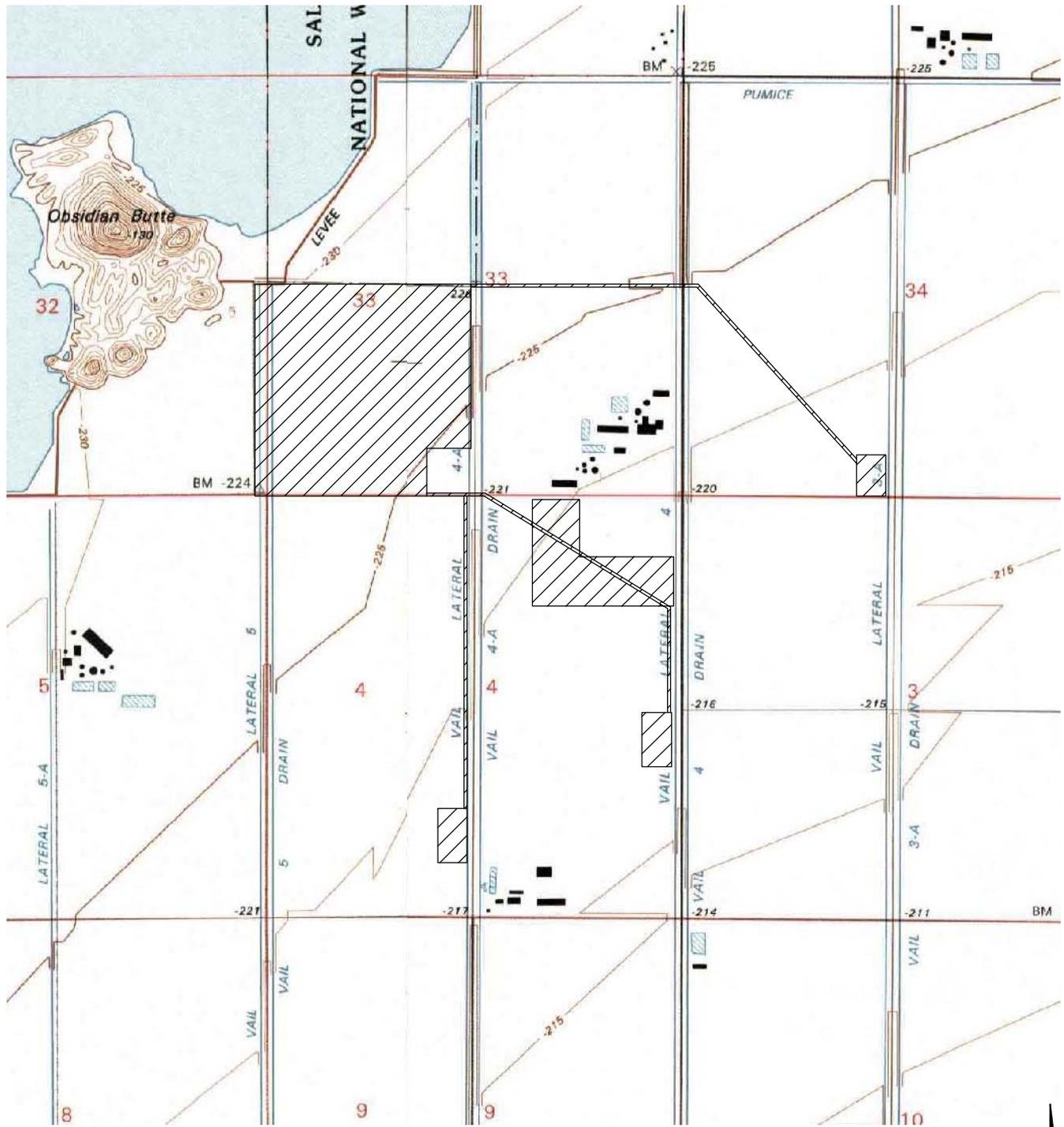
Environmental Data Resources (EDR), The EDR Radius Map™ with GeoCheck®, *Black Rock, Peterson Road/Gentry Road, Calipatria, CA 92233*, dated September 26, 2008. Inquiry number 2327639.2r. Report prepared by EDR, 440 Wheelers Farms Road, Milford, Connecticut 06460, (800) 352-0050.

State Water Resources Control Board (SWRCB). GeoTracker online document search conducted at <http://geotracker.swrcb.ca.gov/>

United States Environmental Protection Agency (EPA). Enforcement & Compliance History Online (ECHO) database search conducted at <http://www.epa.gov/echo>. CERCLIS online database search conducted at <http://cfpub1.epa.gov/supercpad/cursites/srchsites.cfm>.

## **FIGURES**

FILENAME: J:\2008\_Projects\12676 - CalEnergy\001\Phase \Figures\001\Fig 1 Site Location Map.dwg



Approximate Site Location



APPROXIMATE SCALE - 1" = 2000' AT 8.5" x 11"



**AECOM Environment**  
 1220 AVENIDA ACASO  
 CAMARILLO, CALIFORNIA 93012  
 PHONE: (805) 388-3775  
 FAX: (805) 388-3577  
 WEB: HTTP://WWW.ENSR.AECOM.COM

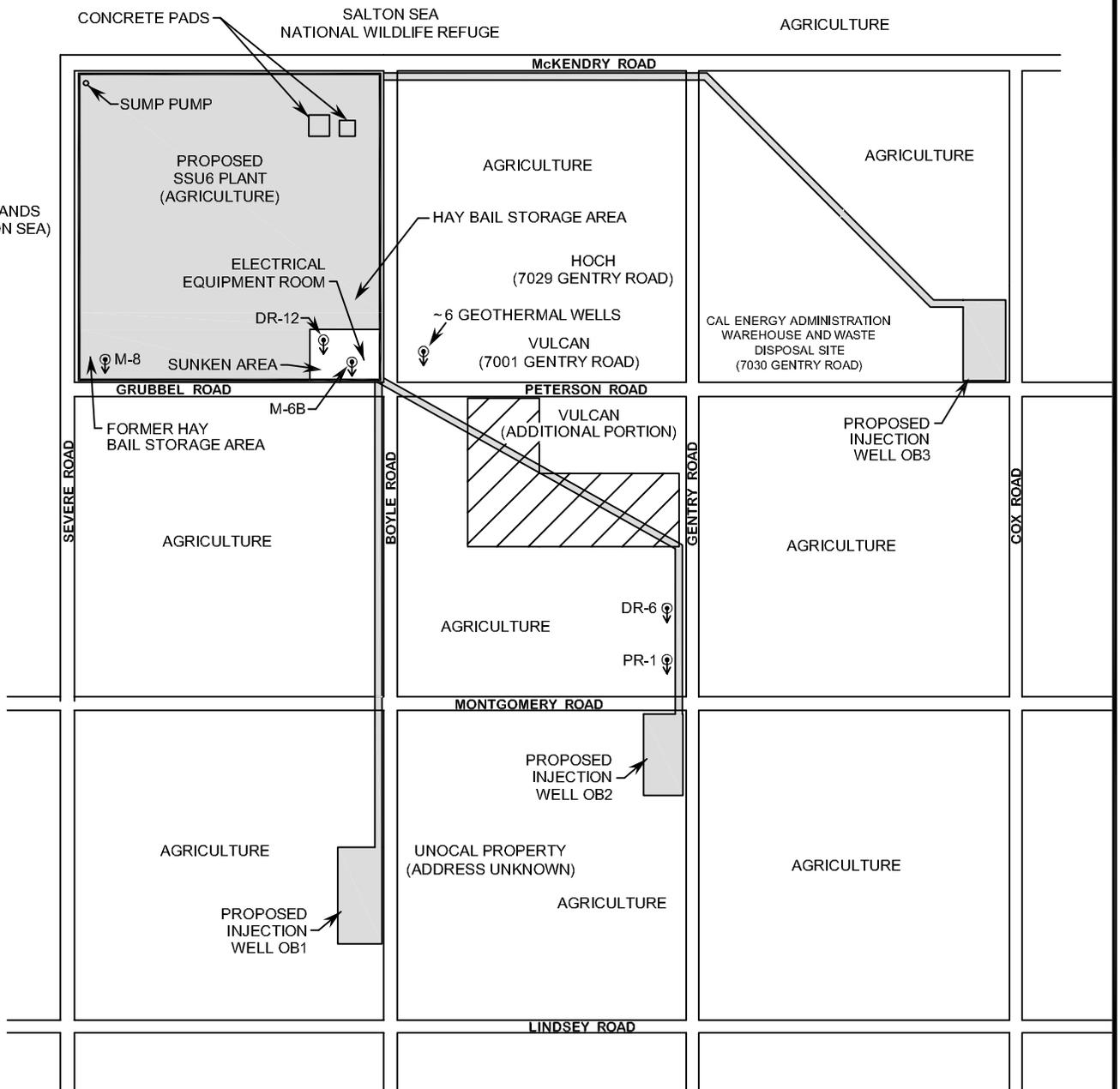
**SITE LOCATION MAP**

Amended Salton Sea Unit 6 (SSU6)  
 Injection Wells and Associated Pipelines  
 and Borrow Site  
 Imperial County, California

FIGURE NUMBER:

**1**

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
T. Burke	12/10/2008	12676-001-171	X



**LEGEND**

-  SUBJECT PROPERTY
-  SUBJECT PROPERTY - BORROW SITE
-  GEOTHERMAL WELL

NOT TO SCALE

J:\2008\_Projects\12676 - CalEnergy\001\Phase 1\Figures\Fig 2 Site Plan.dwg

**AECOM Environment**  
 1220 AVENIDA ACASO  
 CAMARILLO, CALIFORNIA 93012  
 PHONE: (805) 388-3775  
 FAX: (805) 388-3577  
 WEB: HTTP://WWW.ENSRAECOM.COM



**SITE PLAN**  
 Amended Salton Sea Unit 6 (SSU6)  
 Injection Wells and Associated Pipelines  
 and Borrow Site  
 Imperial County, California

FIGURE NUMBER:

**2**

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
T. Burke	12/15/2008	12676-001-171	X

## **APPENDIX A**

### **Representative Site Photographs**

<b>Facility Name:</b> SSU6 Plant, Injection Well OB1, OB2, OB3 and associated Brine Injection Pipelines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
--	--	-------------------------------------

<b>Photo No.</b> <b>1</b>	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b>  Looking West		
<b>Description:</b>  View of proposed Injection Well OB1 location.		

<b>Photo No.</b> <b>2</b>	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b>  Looking South		
<b>Description:</b>  View of proposed Injection Well OB2 location.		

<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines		<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
<b>Photo No.</b> 3	<b>Date:</b> 09/31/08		
<b>Direction Photo Taken:</b> Looking Southeast			
<b>Description:</b> View of the proposed location of the Brine Injection Line OB1.			

<b>Photo No.</b> 4	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b> Look Southeast		
<b>Description:</b> View of the proposed location of the Brine Injection Line OB2.		

<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
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<b>Photo No.</b> <b>5</b>	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b>  Looking Southeast		
<b>Description:</b>  View of the diagonal of the proposed Brine Injection Line OB3. Photograph is taken from the southeast corner of the intersection of McKendry Road and Gentry Road, looking toward the proposed location of Injection Well OB3.		

<b>Photo No.</b> <b>6</b>	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b>  Looking Northeast		
<b>Description:</b>  View of the Vulcan/Hoch Power Plant sites located adjacent to the east of the proposed SSU6 Plant.		

<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
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<b>Photo No.</b> <b>7</b>	<b>Date:</b> 09/31/08	
<b>Direction Photo Taken:</b>  Looking South		
<b>Description:</b>  View of the approximately 60 feet by 40 feet sunken area created during the drilling of a relief well. The sunken area is located off-site and adjacent to the southeast corner of the proposed SSU6 Plant.		

<b>Photo No.</b> <b>8</b>	<b>Date:</b> 10/05/08	
<b>Direction Photo Taken:</b>  Looking Southwest		
<b>Description:</b>  View of the approximately 7 feet by 5 feet electrical equipment room located off-site and adjacent to the southeast corner of the proposed SSU6 Plant.		

<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
---	--	-------------------------------------

<b>Photo No.</b> <b>9</b>	<b>Date:</b> 10/05/08
<b>Direction Photo Taken:</b>  Looking West	
<b>Description:</b>  View of the bare concrete pads located in the northeast corner of the proposed SSU6 Plant. Site contacts reported the pads are former well pads; the wells have been reported to be plugged and abandoned.	



<b>Photo No.</b> <b>10</b>	<b>Date:</b> 12/04/08
<b>Direction Photo Taken:</b>  Not Applicable.	
<b>Description:</b>  View of the electrical capacitors located in the northeast corner of the proposed SSU6 Plant.	



<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
---	--	-------------------------------------

<b>Photo No.</b> <b>11</b>	<b>Date:</b> 10/05/08
<b>Direction Photo Taken:</b>  Looking West	
<b>Description:</b>  View of the piping located off-site and adjacent to the southeast corner of the proposed SSU6 Plant.	



<b>Photo No.</b> <b>12</b>	<b>Date:</b> 10/05/08
<b>Direction Photo Taken:</b>  Looking Southwest	
<b>Description:</b>  View of the geothermal well (M-8) located on the southwest corner of the proposed SSU6 Plant.	



<b>Facility Name:</b> Black Rock – Injection Well OB1, OB2, OB3 and associated Brine Injection Lines	<b>Site Location:</b> Calipatria, Imperial County, California	<b>Project No.</b> 12676-001-171
---	--	-------------------------------------

<b>Photo No.</b> <b>13</b>	<b>Date:</b> 10/05/08
<b>Direction Photo Taken:</b>  Looking South	
<b>Description:</b>  View of the former hay bail storage area located in the southwest corner of the proposed SSU6 Plant.	



<b>Photo No.</b> <b>14</b>	<b>Date:</b> 10/05/08
<b>Direction Photo Taken:</b>  Looking South	
<b>Description:</b>  View of the sump/staging area located on the northwest corner of the proposed SSU6 Plant.	



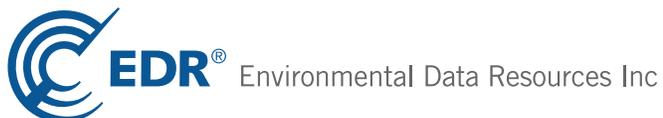
**APPENDIX B**  
**Environmental Database Report**

**Black Rock**

Peterson Road / Gentry Road  
Calipatria, CA 92233

Inquiry Number: 02327639.2r  
September 26, 2008

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	6
Orphan Summary .....	15
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-10
Physical Setting Source Map Findings .....	A-11
Physical Setting Source Records Searched .....	A-20

***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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

PETERSON ROAD / GENTRY ROAD  
CALIPATRIA, CA 92233

#### COORDINATES

Latitude (North): 33.159620 - 33° 9' 34.6"  
Longitude (West): 115.614380 - 115° 36' 51.8"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 629213.2  
UTM Y (Meters): 3669645.8  
Elevation: 214 ft. below sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33115-B5 NILAND, CA  
Most Recent Revision: 1995  
  
West Map: 33115-B6 OBSIDIAN BUTTE, CA  
Most Recent Revision: 1995

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

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

#### FEDERAL RECORDS

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
Delisted NPL..... National Priority List Deletions  
NPL LIENS..... Federal Superfund Liens  
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned  
LIENS 2..... CERCLA Lien Information

## EXECUTIVE SUMMARY

CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	RCRA - Transporters, Storage and Disposal
RCRA-LQG.....	RCRA - Large Quantity Generators
RCRA-SQG.....	RCRA - Small Quantity Generators
RCRA-CESQG.....	RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen.....	RCRA - Non Generators
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
HMIRS.....	Hazardous Materials Information Reporting System
DOT OPS.....	Incident and Accident Data
US CDL.....	Clandestine Drug Labs
US BROWNFIELDS.....	A Listing of Brownfields Sites
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
LUCIS.....	Land Use Control Information System
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
SCRD DRYCLEANERS.....	State Coalition for Redediation of Drycleaners Listing

### **STATE AND LOCAL RECORDS**

HIST Cal-Sites.....	Historical Calsites Database
CA BOND EXP. PLAN.....	Bond Expenditure Plan
SCH.....	School Property Evaluation Program
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
CA WDS.....	Waste Discharge System
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
SWRCY.....	Recycler Database
LUST.....	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST.....	Facility Inventory Database
SLIC.....	Statewide SLIC Cases
UST.....	Active UST Facilities
HIST UST.....	Hazardous Substance Storage Container Database
AST.....	Aboveground Petroleum Storage Tank Facilities
LIENS.....	Environmental Liens Listing
SWEEPS UST.....	SWEEPS UST Listing
DEED.....	Deed Restriction Listing
VCP.....	Voluntary Cleanup Program Properties

## EXECUTIVE SUMMARY

DRYCLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
CDL.....	Clandestine Drug Labs
RESPONSE.....	State Response Sites
EMI.....	Emissions Inventory Data
HAULERS.....	Registered Waste Tire Haulers Listing
ENVIROSTOR.....	EnviroStor Database

### TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land
INDIAN VCP.....	Voluntary Cleanup Priority Listing

### EDR PROPRIETARY RECORDS

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

### 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.

### FEDERAL RECORDS

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 ERNS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VULCAN PLANT (GEOTHERMAL PL)70	VULCAN PLANT (GEOTHERMAN 1/2 - 1 (0.692 mi.)		2	7

### STATE AND LOCAL RECORDS

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is

## EXECUTIVE SUMMARY

1 WMUDS/SWAT site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VULCAN/BN GEOTHERMAL 91-054	7001 GENTRY RD	S 1 - 2 (1.366 mi.)	A6	12

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 CHMIRS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	GENTRY RD / LINDSEY	S 1/2 - 1 (0.832 mi.)	3	7

Notify 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 2 Notify 65 sites within approximately 2 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VULCAN POWER COMPANY	7001 GENTRY ROAD	S 1 - 2 (1.366 mi.)	A4	8
<b>VULCAN POWER COMPANY</b>	<b>7001 GENTRY ROAD</b>	<b>S 1 - 2 (1.366 mi.)</b>	<b>A5</b>	<b>9</b>

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2006 has revealed that there is 1 HAZNET site within approximately 1 mile of the target property.

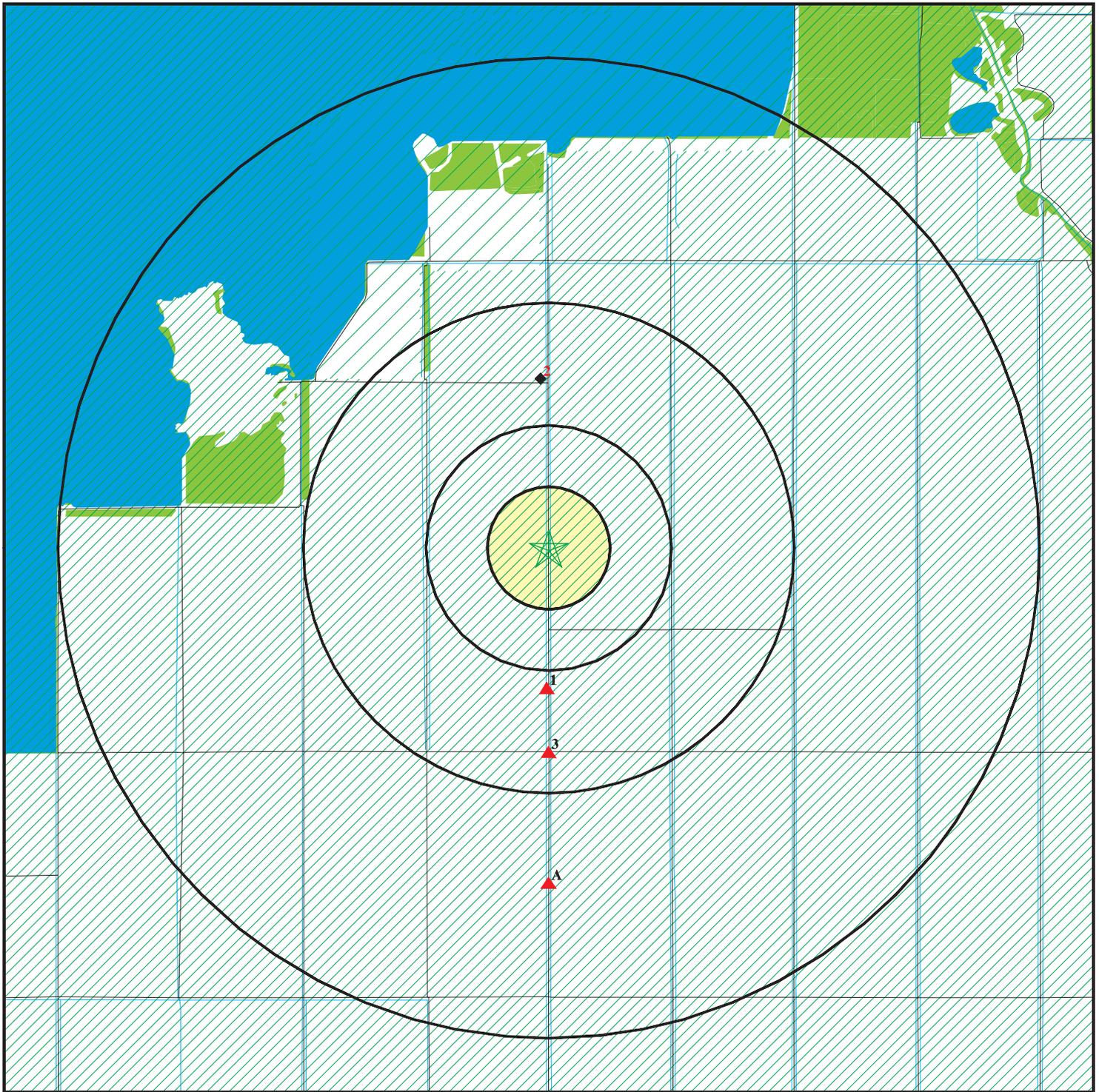
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
C AND L DR LG CO INC	7051 GERTRY RD	S 1/2 - 1 (0.571 mi.)	1	6

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
TITSWORTH UNAUTHORIZED DUMP	CERC-NFRAP
CALIPATRIA STORAGE YARD	CERC-NFRAP
JESSEN & CO INC	CERC-NFRAP
CALIPATRIA AIRPORT	CERC-NFRAP
SUPERIOR CATTLE FEEDERS, LLC	SWF/LF
RED HILL MAR.CL.III WMF 88-119	WMUDS/SWAT
CALENERGY MINERALS LLC	HAZNET
KELOMAR INC	HAZNET
NABORS DRILLING USA INC	HAZNET
CALENERGY MINERALS, LLC	RCRA-LQG
CALENERGY MINERALS LLC	RCRA-LQG
FILTER RECYCLING SERVICES INC	RCRA-NonGen
PLANTERS COTTON GIN	FINDS, EMI
HUDSON RANCH - CALIPATRIA	SLIC
RED HILL MARINA 95-044	CA WDS
CALIPATRIA-EMERG. DISCH.03-010	CA WDS

# OVERVIEW MAP - 02327639.2r



- ★ 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
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

- Areas of Concern

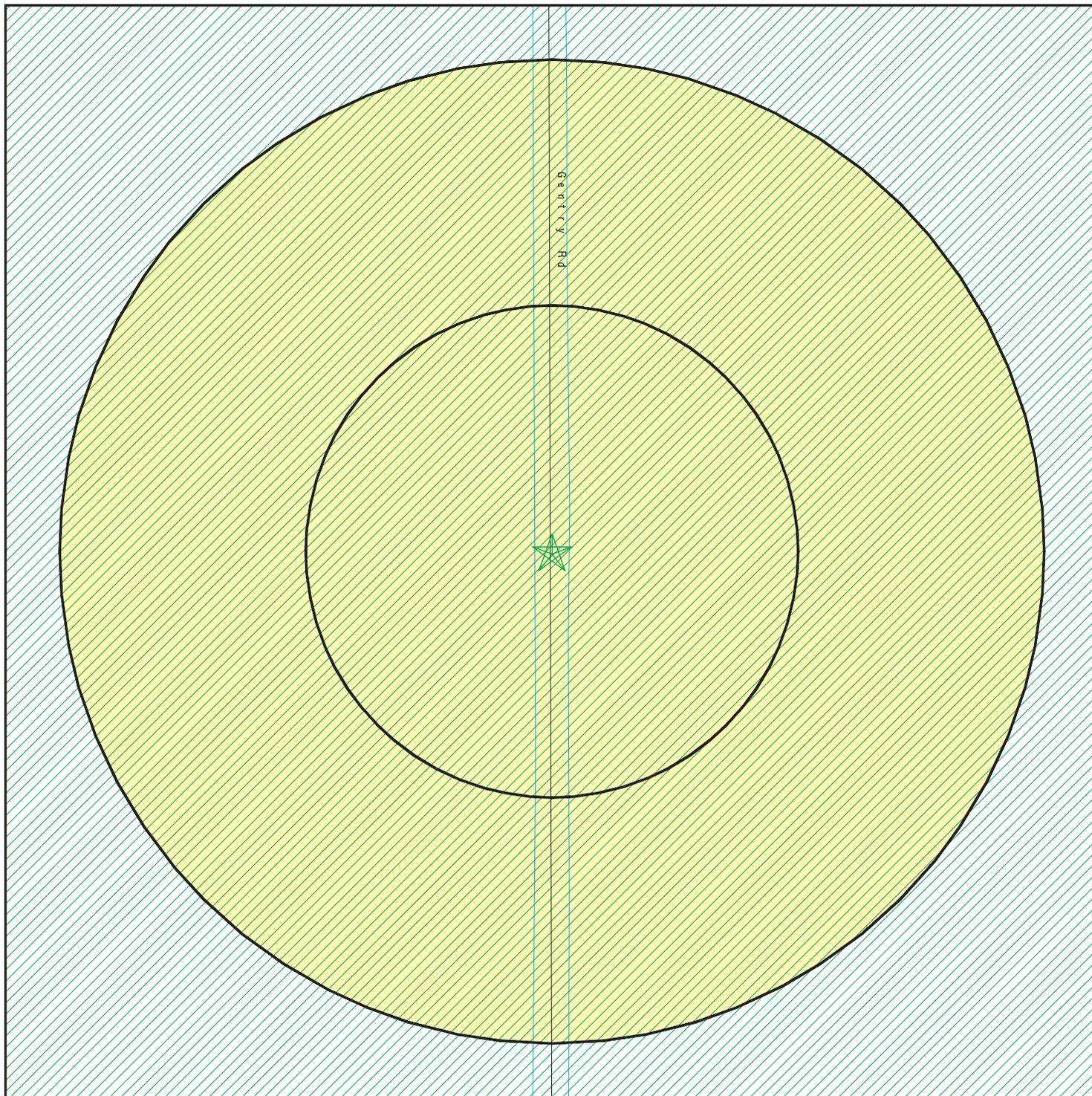


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Black Rock  
 ADDRESS: Peterson Road / Gentry Road  
 Calipatria CA 92233  
 LAT/LONG: 33.1596 / 115.6144

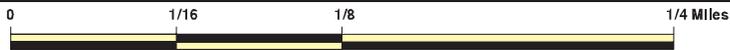
CLIENT: ENSR Consulting & Engineering  
 CONTACT: cassandra weir  
 INQUIRY #: 02327639.2r  
 DATE: September 26, 2008 6:11 pm

# DETAIL MAP - 02327639.2r



- ★ 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- 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: Black Rock  
 ADDRESS: Peterson Road / Gentry Road  
 Calipatria CA 92233  
 LAT/LONG: 33.1596 / 115.6144

CLIENT: ENSR Consulting & Engineering  
 CONTACT: cassandra weir  
 INQUIRY #: 02327639.2r  
 DATE: September 26, 2008 6:12 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL RECORDS</u></b>								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
NPL LIENS		1.000	0	0	0	0	NR	0
CERCLIS		1.500	0	0	0	0	0	0
CERC-NFRAP		1.500	0	0	0	0	0	0
LIENS 2		1.000	0	0	0	0	NR	0
CORRACTS		2.000	0	0	0	0	0	0
RCRA-TSDF		1.500	0	0	0	0	0	0
RCRA-LQG		1.250	0	0	0	0	0	0
RCRA-SQG		1.250	0	0	0	0	0	0
RCRA-CESQG		1.250	0	0	0	0	0	0
RCRA-NonGen		1.250	0	0	0	0	0	0
US ENG CONTROLS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	0	0
ERNS		1.000	0	0	0	1	NR	1
HMIRS		1.000	0	0	0	0	NR	0
DOT OPS		1.000	0	0	0	0	NR	0
US CDL		1.000	0	0	0	0	NR	0
US BROWNFIELDS		1.500	0	0	0	0	0	0
DOD		2.000	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
LUCIS		1.500	0	0	0	0	0	0
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
DEBRIS REGION 9		1.500	0	0	0	0	0	0
ODI		1.500	0	0	0	0	0	0
MINES		1.250	0	0	0	0	0	0
TRIS		1.000	0	0	0	0	NR	0
TSCA		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0
HIST FTTS		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	0	NR	0
ICIS		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	0	0	NR	0
RADINFO		1.000	0	0	0	0	NR	0
FINDS		1.000	0	0	0	0	NR	0
RAATS		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		1.500	0	0	0	0	0	0
<b><u>STATE AND LOCAL RECORDS</u></b>								
HIST Cal-Sites		2.000	0	0	0	0	0	0
CA BOND EXP. PLAN		2.000	0	0	0	0	0	0
SCH		1.250	0	0	0	0	0	0
Toxic Pits		2.000	0	0	0	0	0	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWF/LF		1.500	0	0	0	0	0	0
WMUDS/SWAT		1.500	0	0	0	0	1	1
CA WDS		1.000	0	0	0	0	NR	0
Cortese		1.500	0	0	0	0	0	0
SWRCY		1.500	0	0	0	0	0	0
LUST		1.500	0	0	0	0	0	0
CA FID UST		1.250	0	0	0	0	0	0
SLIC		1.500	0	0	0	0	0	0
UST		1.250	0	0	0	0	0	0
HIST UST		1.250	0	0	0	0	0	0
AST		1.250	0	0	0	0	0	0
LIENS		1.000	0	0	0	0	NR	0
SWEEPS UST		1.250	0	0	0	0	0	0
CHMIRS		1.000	0	0	0	1	NR	1
Notify 65		2.000	0	0	0	0	2	2
DEED		1.500	0	0	0	0	0	0
VCP		1.500	0	0	0	0	0	0
DRYCLEANERS		1.250	0	0	0	0	0	0
WIP		1.250	0	0	0	0	0	0
CDL		1.000	0	0	0	0	NR	0
RESPONSE		2.000	0	0	0	0	0	0
HAZNET		1.000	0	0	0	1	NR	1
EMI		1.000	0	0	0	0	NR	0
HAULERS		1.000	0	0	0	0	NR	0
ENVIROSTOR		2.000	0	0	0	0	0	0
<b><u>TRIBAL RECORDS</u></b>								
INDIAN RESERV		2.000	0	0	0	0	0	0
INDIAN ODI		1.500	0	0	0	0	0	0
INDIAN LUST		1.500	0	0	0	0	0	0
INDIAN UST		1.250	0	0	0	0	0	0
INDIAN VCP		1.500	0	0	0	0	0	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
Manufactured Gas Plants		2.000	0	0	0	0	0	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
South  
1/2-1  
0.571 mi.  
3014 ft.

**C AND L DR LG CO INC**  
**7051 GERTRY RD**  
**CALIPATRIA, CA 92233**

**HAZNET S102814823**  
**N/A**

**Relative:**  
**Higher**

HAZNET:  
Gepaid: CAL000070613  
Contact: LOWELL LEAVITT  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1303 BAUGHMAN RD  
Mailing City,St,Zip: BRAWLEY, CA 922279750  
Gen County: Imperial  
TSD EPA ID: CAD000633164  
TSD County: Imperial  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Disposal, Land Fill  
Tons: 10.9564  
Facility County: Imperial

**Actual:**  
**-211 ft.**

Gepaid: CAL000070613  
Contact: LOWELL LEAVITT  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1303 BAUGHMAN RD  
Mailing City,St,Zip: BRAWLEY, CA 922279750  
Gen County: Imperial  
TSD EPA ID: CAD000633164  
TSD County: Imperial  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Disposal, Land Fill  
Tons: 16.8560  
Facility County: Imperial

Gepaid: CAL000070613  
Contact: LOWELL LEAVITT  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1303 BAUGHMAN RD  
Mailing City,St,Zip: BRAWLEY, CA 922279750  
Gen County: Imperial  
TSD EPA ID: CAD980675276  
TSD County: Kern  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Disposal, Land Fill  
Tons: 16.8560  
Facility County: Imperial

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)      EDR ID Number  
 EPA ID Number

**2**  
 North  
 1/2-1  
 0.692 mi.  
 3655 ft.

**VULCAN PLANT (GEOTHERMAL PL)7001 GENTRY**  
**VULCAN PLANT (GEOTHERMAL PL)7001 GENTRY**  
**CALIPATRIA, CA 92233**

**ERNS 91234824**  
**N/A**

**Relative:**  
**Lower**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**Actual:**  
 -218 ft.  
 3

**GENTRY RD / LINDSEY**  
**UNINCOR CALIPATERIA, CA**

**CHMIRS S105644795**  
**N/A**

**South**  
 1/2-1  
 0.832 mi.  
 4391 ft.

**Relative:**  
**Higher**

**CHMIRS:**  
 OES Incident Number: 014939  
 OES notification: Not reported  
 OES Date: 8/2/1996  
 OES Time: 10:18:37 AM  
 Incident Date: Not reported  
**Date Completed: Not reported**  
 Property Use: Not reported  
 Agency Id Number: Not reported  
 Agency Incident Number: Not reported  
 Time Notified: Not reported  
 Time Completed: Not reported  
 Surrounding Area: Not reported  
 Estimated Temperature: Not reported  
 Property Management: Not reported  
 Special Studies 1: Not reported  
 Special Studies 2: Not reported  
 Special Studies 3: Not reported  
 Special Studies 4: Not reported  
 Special Studies 5: Not reported  
 Special Studies 6: Not reported  
 More Than Two Substances Involved?: Not reported  
 Resp Agncy Personel # Of Decontaminated: Not reported  
 Responding Agency Personel # Of Injuries: Not reported  
 Responding Agency Personel # Of Fatalities: Not reported  
 Others Number Of Decontaminated: Not reported  
 Others Number Of Injuries: Not reported  
 Others Number Of Fatalities: Not reported  
 Vehicle Make/year: Not reported  
 Vehicle License Number: Not reported  
 Vehicle State: Not reported  
 Vehicle Id Number: Not reported  
 CA/DOT/PUC/ICC Number: Not reported  
 Company Name: Not reported  
 Reporting Officer Name/ID: Not reported  
 Report Date: Not reported  
 Comments: Not reported  
 Facility Telephone: Not reported  
 Waterway Involved: YES  
 Waterway: Not reported  
 Spill Site: Not reported  
 Cleanup By: magma power company  
 Containment: Not reported  
 What Happened: Not reported  
 Type: CHEMICAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105644795

Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1996  
Agency: chp  
Incident Date: 0942 02Aug96  
Admin Agency: Not reported  
Amount: unk  
Contained: NO  
Site Type: RD  
E Date: Not reported  
Substance: hydrochloric acid  
Quantity Released: Not reported  
BBLs: Not reported  
Cups: Not reported  
CUFT: Not reported  
Gallons: Not reported  
Grams: Not reported  
Pounds: Not reported  
Liters: Not reported  
Ounces: Not reported  
Pints: Not reported  
Quarts: Not reported  
Sheen: Not reported  
Tons: Not reported  
Unknown: Not reported  
Description: a geo thermal company truck spilled substance for approx 200-300' ft near an agriculture field. the resp party is on scene neutralizing the product.  
Evacuations: NO  
Number of Injuries: NO  
Number of Fatalities: NO  
Description: Not reported

A4  
South  
> 1  
1.366 mi.  
7211 ft.

VULCAN POWER COMPANY  
7001 GENTRY ROAD  
CALIPATRIA, CA 92233  
Site 1 of 3 in cluster A

Notify 65 S100179533  
N/A

Relative:  
Higher

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92233-9750

Actual:  
-209 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

A5  
South  
> 1  
1.366 mi.  
7211 ft.

**VULCAN POWER COMPANY**  
**7001 GENTRY ROAD**  
**CALIPATRIA, CA 92233**

**Notify 65 S100179492**  
**CHMIRS N/A**

**Site 2 of 3 in cluster A**

**Relative:**  
**Higher**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92233-9750

**Actual:**  
**-209 ft.**

CHMIRS:  
OES Incident Number: 00-5078  
OES notification: 10/31/200003:37:29 PM  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Comments: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VULCAN POWER COMPANY (Continued)**

**S100179492**

Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 2000  
Agency: Vulcan Power Co.  
Incident Date: 10/31/2000 12:00:00 AM  
Admin Agency: Imperial County Health Services Dept.  
Amount: Not reported  
Contained: Yes  
Site Type: Utilities/Substation  
E Date: Not reported  
Substance: Bleach  
Quantity Released: Not reported  
BBLs: 0  
Cups: 0  
CUFT: 0  
Gallons: 265  
Grams: 0  
Pounds: 0  
Liters: 0  
Ounces: 0  
Pints: 0  
Quarts: 0  
Sheen: 0  
Tons: 0  
Unknown: 0  
Description: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
Description: Failure of the sight tube, which caused the release to the ground. One of the process units that holds the geothermal brine overflowed spilling.

OES Incident Number: 01-0730  
OES notification: 2/3/2001 06:15:39 PM  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personnel # Of Decontaminated: Not reported  
Responding Agency Personnel # Of Injuries: Not reported  
Responding Agency Personnel # Of Fatalities: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VULCAN POWER COMPANY (Continued)**

**S100179492**

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Cal Energy
Incident Date:	2/3/2001 12:00:00 AM
Admin Agency:	Imperial County Health Services Dept.
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Geothermal Brine
Quantity Released:	Not reported
BBLs:	0
Cups:	0
CUFT:	0
Gallons:	47
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0.000000
Description:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Failure of the sight tube, which caused the release to the ground. One of the process units that holds the geothermal brine overflowed spilling.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A6**  
**South**  
**> 1**  
**1.366 mi.**  
**7211 ft.**

**VULCAN/BN GEOTHERMAL 91-054**  
**7001 GENTRY RD**  
**CALIPATRIA CA, CA 92233**

**WMUDS/SWAT S102266891**  
**N/A**

**Site 3 of 3 in cluster A**

**Relative:**  
**Higher**  
  
**Actual:**  
**-209 ft.**

WMUDS/SWAT:  
 Edit Date: Not reported  
 Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.  
 Primary Waste: Drilling Brine Waters (Includes oil field and geothermal, aquifer reclamation extraction)  
 Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.  
 Secondary Waste: Drilling Muds  
 Secondary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.  
 Base Meridian: Not reported  
 NPID: Not reported  
 Tonnage: 0  
 Regional Board ID: Not reported  
 Municipal Solid Waste: False  
 Superorder: False  
 Open To Public: False  
 Waste List: False  
 Agency Type: Private  
 Agency Name: VULCAN/BN GEOTHERMAL COMPANY  
 Agency Department: Not reported  
 Agency Address: 950 WEST LINDSEY RD  
 Agency City,St,Zip: CALIPATRIA CA 92233  
 Agency Contact: BRUCE CARLSEN  
 Agency Telephone: 7603484000  
 Land Owner Name: Not reported  
 Land Owner Address: Not reported  
 Land Owner City,St,Zip: Not reported  
 Land Owner Contact: Not reported  
 Land Owner Phone: Not reported  
 Region: 7  
 Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
 Facility Description: Not reported  
 Facility Telephone: Not reported  
 SWAT Facility Name: Not reported  
 Primary SIC: 1781  
 Secondary SIC: 4911  
 Comments: Not reported  
 Last Facility Editors: Not reported  
 Waste Discharge System: True

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VULCAN/BN GEOTHERMAL 91-054 (Continued)**

**S102266891**

Solid Waste Assessment Test Program: False  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: Not reported  
Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.

Sub Chapter 15: True  
Regional Board Project Officer: Not reported  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: No  
Waste Discharge Requirements: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Self-Monitoring Rept. Frequency: Monthly Submittal  
Waste Discharge System ID: 7A132138004  
Solid Waste Information ID: Not reported

Edit Date: Not reported  
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

Primary Waste: Drilling Muds  
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Drilling Brine Waters (Includes oil field and geothermal, aquifer reclamation extraction)  
Secondary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Base Meridian: Not reported  
NPID: Not reported  
Tonnage: 0  
Regional Board ID: Not reported  
Municipal Solid Waste: False  
Superorder: False  
Open To Public: False  
Waste List: False  
Agency Type: Private  
Agency Name: DEL RANCH LP  
Agency Department: Not reported  
Agency Address: 950 WEST LINDSEY RD  
Agency City,St,Zip: CALIPATRIA CA 92233  
Agency Contact: BRUCE CARLSEN  
Agency Telephone: 7603484000  
Land Owner Name: Not reported  
Land Owner Address: Not reported  
Land Owner City,St,Zip: Not reported  
Land Owner Contact: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VULCAN/BN GEOTHERMAL 91-054 (Continued)**

**S102266891**

Land Owner Phone: Not reported  
Region: 7  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
Facility Description: Not reported  
Facility Telephone: Not reported  
SWAT Facility Name: Not reported  
Primary SIC: 1781  
Secondary SIC: 4911  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: True  
Solid Waste Assessment Test Program: False  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: Not reported  
Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.  
Sub Chapter 15: True  
Regional Board Project Officer: Not reported  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: No  
Waste Discharge Requirements: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
Self-Monitoring Rept. Frequency: Monthly Submittal  
Waste Discharge System ID: 7A132138005  
Solid Waste Information ID: Not reported

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CALIPATRIA	1003879988	TITSWORTH UNAUTHORIZED DUMP	NE 1/4 OF SEC 5, T13S, R16E	92233	CERC-NFRAP
CALIPATRIA	1006095001	PLANTERS COTTON GIN	5996 HWY 115	92233	FINDS, EMI
CALIPATRIA	1010561799	FILTER RECYCLING SERVICES INC	6395 HWY 115	92233	RCRA-NonGen
CALIPATRIA	1003879056	CALIPATRIA STORAGE YARD	ALAMO & CENTRO AVES	92233	CERC-NFRAP
CALIPATRIA	1003878308	JESSEN & CO INC	447 E BONITA ST	92233	CERC-NFRAP
CALIPATRIA	1001491885	CALIPATRIA AIRPORT	CLIFF HATFIELD MEMORIAL AIRPORT	92233	CERC-NFRAP
CALIPATRIA	S106388948	HUDSON RANCH - CALIPATRIA	SW CORNER SINCLAIR ROAD	92233	SLIC
CALIPATRIA	S101612561	RED HILL MARINA 95-044	7851 GARST RD	92233	CA WDS
CALIPATRIA	1004676198	CALENERGY MINERALS, LLC	6999 GENTRY RD	92233	RCRA-LQG
CALIPATRIA	1007198610	CALENERGY MINERALS LLC	6999 GENTRY ROAD	92233	RCRA-LQG
CALIPATRIA	S105094285	CALENERGY MINERALS LLC	6999 GENTRY RD	92233	HAZNET
CALIPATRIA	S108211071	KELOMAR INC	6798 GENTRY RD	92233	HAZNET
CALIPATRIA	S103678175	NABORS DRILLING USA INC	AT INTERSECTION OF LINDSEY RD	92233	HAZNET
CALIPATRIA	S108484793	SUPERIOR CATTLE FEEDERS, LLC	612 SIMPSON RAOD	92233	SWF/LF
CALIPATRIA	S102003364	CALIPATRIA-EMERG. DISCH.03-010	1/4 MI W OF BRANDT ON LINDSEY	92233	CA WDS
CALIPATRIA	,CA S103442569	RED HILL MAR.CL.III WMF 88-119	7851 GARST ROAD	92233	WMUDS/SWAT

# 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.

## FEDERAL RECORDS

### 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: 08/13/2008	Source: EPA
Date Data Arrived at EDR: 08/27/2008	Telephone: N/A
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/27/2008
	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: 04/30/2008	Source: EPA
Date Data Arrived at EDR: 05/06/2008	Telephone: N/A
Date Made Active in Reports: 06/09/2008	Last EDR Contact: 08/27/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

### 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: 08/14/2008	Source: EPA
Date Data Arrived at EDR: 08/27/2008	Telephone: N/A
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/18/2008
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: No Update Planned

## CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008	Source: EPA
Date Data Arrived at EDR: 07/22/2008	Telephone: 703-412-9810
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 09/19/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/15/2008
	Data Release Frequency: Quarterly

## CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 09/15/2008
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/15/2008
	Data Release Frequency: Quarterly

## 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: 08/19/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/29/2008	Telephone: 202-564-6023
Date Made Active in Reports: 09/09/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 11	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

## CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/25/2008	Source: EPA
Date Data Arrived at EDR: 06/30/2008	Telephone: 800-424-9346
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 09/02/2008
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

## RCRA-TSDF: RCRA - Transporters, 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/20/2008  
Date Data Arrived at EDR: 08/21/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 19

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Quarterly

## 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: 08/20/2008  
Date Data Arrived at EDR: 08/21/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 19

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 08/20/2008  
Date Data Arrived at EDR: 08/21/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 19

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 08/20/2008  
Date Data Arrived at EDR: 08/21/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 19

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 08/20/2008  
Date Data Arrived at EDR: 08/21/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 19

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 07/23/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 703-603-0695
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 06/30/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/29/2008
	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: 07/23/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 703-603-0695
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 06/30/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Varies

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/23/2008	Telephone: 202-267-2180
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 07/25/2008
Number of Days to Update: 54	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Annually

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/30/2008	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/15/2008	Telephone: 202-366-4555
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 07/15/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 10/13/2008
	Data Release Frequency: Annually

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/29/2008
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: Varies

### CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 12/28/2007  
Number of Days to Update: 25

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Quarterly

## US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 08/25/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 07/15/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: Semi-Annually

## 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: 703-692-8801  
Last EDR Contact: 08/08/2008  
Next Scheduled EDR Contact: 11/03/2008  
Data Release Frequency: Semi-Annually

## 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: 12/31/2007  
Date Data Arrived at EDR: 09/05/2008  
Date Made Active in Reports: 09/23/2008  
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/05/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Varies

## 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: 12/09/2005  
Date Data Arrived at EDR: 12/11/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 31

Source: Department of the Navy  
Telephone: 843-820-7326  
Last EDR Contact: 09/09/2008  
Next Scheduled EDR Contact: 12/08/2008  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/25/2008  
Date Data Arrived at EDR: 06/12/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 07/21/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: Varies

## 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: 06/18/2008  
Date Data Arrived at EDR: 07/11/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 45

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Annually

## 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: 07/13/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/15/2008  
Data Release Frequency: Varies

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008  
Date Data Arrived at EDR: 04/17/2008  
Date Made Active in Reports: 05/15/2008  
Number of Days to Update: 28

Source: EPA, Region 9  
Telephone: 415-972-3336  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Varies

## MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/28/2008  
Date Data Arrived at EDR: 06/25/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Semi-Annually

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 09/19/2008  
Next Scheduled EDR Contact: 12/15/2008  
Data Release Frequency: Annually

## 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: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 08/11/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: Every 4 Years

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: 07/12/2008  
Date Data Arrived at EDR: 07/18/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 38

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/15/2008  
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/12/2008  
Date Data Arrived at EDR: 07/18/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 38

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/15/2008  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## 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: 12/31/2006  
Date Data Arrived at EDR: 03/14/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
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: 07/31/2008  
Date Data Arrived at EDR: 08/13/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
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: 12/04/2007  
Date Data Arrived at EDR: 02/07/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 39

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 09/18/2008  
Next Scheduled EDR Contact: 11/03/2008  
Data Release Frequency: Annually

## 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: 07/08/2008  
Date Data Arrived at EDR: 08/05/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 20

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/29/2008  
Date Data Arrived at EDR: 07/31/2008  
Date Made Active in Reports: 08/25/2008  
Number of Days to Update: 25

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/31/2008  
Next Scheduled EDR Contact: 10/27/2008  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/01/2008	Source: EPA
Date Data Arrived at EDR: 07/09/2008	Telephone: (415) 947-8000
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 06/30/2008
Number of Days to Update: 47	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## 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: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 09/12/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Biennially

## SCRD DRYCLEANERS: State Coalition for Redediation 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: 09/08/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2008	Telephone: 615-532-8599
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 08/25/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Varies

## STATE AND LOCAL RECORDS

### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/25/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## 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: 08/25/2008  
Date Data Arrived at EDR: 08/27/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/27/2008  
Next Scheduled EDR Contact: 11/24/2008  
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: 07/28/2008  
Next Scheduled EDR Contact: 10/27/2008  
Data Release Frequency: No Update Planned

## SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/08/2008  
Date Data Arrived at EDR: 09/09/2008  
Date Made Active in Reports: 09/18/2008  
Number of Days to Update: 9

Source: Integrated Waste Management Board  
Telephone: 916-341-6320  
Last EDR Contact: 09/09/2008  
Next Scheduled EDR Contact: 12/08/2008  
Data Release Frequency: Quarterly

## CA 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: 09/16/2008  
Next Scheduled EDR Contact: 12/15/2008  
Data Release Frequency: Quarterly

## WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000  
Date Data Arrived at EDR: 04/10/2000  
Date Made Active in Reports: 05/10/2000  
Number of Days to Update: 30

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Quarterly

## 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). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 05/29/2001  
Date Made Active in Reports: 07/26/2001  
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 07/21/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: No Update Planned

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 07/09/2008  
Date Data Arrived at EDR: 07/10/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 21

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 07/10/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Quarterly

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/03/2008  
Date Data Arrived at EDR: 07/11/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 20

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 07/11/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 07/09/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Quarterly

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/11/2008  
Next Scheduled EDR Contact: 11/10/2008  
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: 09/23/2008  
Next Scheduled EDR Contact: 12/22/2008  
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: 07/22/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Quarterly

## 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: 09/02/2008  
Next Scheduled EDR Contact: 12/01/2008  
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: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: No Update Planned

## LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004  
Date Data Arrived at EDR: 02/26/2004  
Date Made Active in Reports: 03/24/2004  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)  
Telephone: 760-776-8943  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/04/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/03/2008
	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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SLIC: Statewide SLIC Cases

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: 07/03/2008	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/11/2008	Telephone: 866-480-1028
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/11/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/06/2008
	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	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/18/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/17/2008
	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	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 07/09/2008
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/06/2008
	Data Release Frequency: Quarterly

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/11/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/21/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: Varies

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Semi-Annually

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Semi-Annually

## 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: 09/02/2008  
Next Scheduled EDR Contact: 12/01/2008  
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: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 08/25/2008  
Next Scheduled EDR Contact: 11/24/2008  
Data Release Frequency: Annually

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/10/2008  
Date Data Arrived at EDR: 07/10/2008  
Date Made Active in Reports: 07/25/2008  
Number of Days to Update: 15

Source: SWRCB  
Telephone: 916-480-1028  
Last EDR Contact: 07/10/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Semi-Annually

## UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/23/2008  
Date Data Arrived at EDR: 06/23/2008  
Date Made Active in Reports: 07/02/2008  
Number of Days to Update: 9

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Varies

## 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

## AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007  
Date Data Arrived at EDR: 11/27/2007  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 79

Source: State Water Resources Control Board  
Telephone: 916-341-5712  
Last EDR Contact: 07/28/2008  
Next Scheduled EDR Contact: 10/27/2008  
Data Release Frequency: Quarterly

## LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/04/2008  
Date Data Arrived at EDR: 08/08/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 26

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/04/2008  
Next Scheduled EDR Contact: 11/03/2008  
Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 05/09/2008  
Date Made Active in Reports: 06/20/2008  
Number of Days to Update: 42

Source: Office of Emergency Services  
Telephone: 916-845-8400  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993  
Date Data Arrived at EDR: 11/01/1993  
Date Made Active in Reports: 11/19/1993  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: No Update Planned

## DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/30/2008  
Date Data Arrived at EDR: 06/30/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 31

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 06/30/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Semi-Annually

## 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: 08/25/2008  
Date Data Arrived at EDR: 08/27/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/27/2008  
Next Scheduled EDR Contact: 11/24/2008  
Data Release Frequency: Quarterly

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/05/2008  
Date Data Arrived at EDR: 08/05/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 29

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 09/23/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 02/26/2008  
Date Data Arrived at EDR: 04/23/2008  
Date Made Active in Reports: 05/06/2008  
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 07/25/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: Varies

## 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: 12/31/2007  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/06/2008  
Number of Days to Update: 14

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 09/08/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: Varies

## 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: 08/25/2008  
Date Data Arrived at EDR: 08/27/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/27/2008  
Next Scheduled EDR Contact: 11/24/2008  
Data Release Frequency: Quarterly

## 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.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 10/04/2007  
Date Made Active in Reports: 11/07/2007  
Number of Days to Update: 34

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 08/08/2008  
Next Scheduled EDR Contact: 11/03/2008  
Data Release Frequency: Annually

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 04/17/2007  
Date Made Active in Reports: 05/10/2007  
Number of Days to Update: 23

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 04/18/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Varies

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/15/2008  
Date Data Arrived at EDR: 07/18/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 13

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 09/08/2008  
Next Scheduled EDR Contact: 12/08/2008  
Data Release Frequency: Varies

## ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 08/25/2008  
Date Data Arrived at EDR: 08/27/2008  
Date Made Active in Reports: 09/03/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/27/2008  
Next Scheduled EDR Contact: 11/24/2008  
Data Release Frequency: Quarterly

## TRIBAL RECORDS

### 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: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 08/08/2008  
Next Scheduled EDR Contact: 11/03/2008  
Data Release Frequency: Semi-Annually

### 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: 08/25/2008  
Next Scheduled EDR Contact: 11/24/2008  
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: 08/21/2008  
Date Data Arrived at EDR: 09/04/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 5

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Quarterly

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/17/2008  
Date Data Arrived at EDR: 03/27/2008  
Date Made Active in Reports: 05/06/2008  
Number of Days to Update: 40

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-8677
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Semi-Annually

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: 03/12/2008	Source: EPA Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/17/2008
	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: 07/11/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/11/2008	Telephone: 415-972-3372
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/22/2008	Source: EPA Region 10
Date Data Arrived at EDR: 08/22/2008	Telephone: 206-553-2857
Date Made Active in Reports: 09/09/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/05/2008	Source: EPA Region 6
Date Data Arrived at EDR: 09/05/2008	Telephone: 214-665-6597
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land  
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land  
No description is available for this data

Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-9424
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R5: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 12/21/2007  
Date Data Arrived at EDR: 12/21/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 34

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2008  
Date Data Arrived at EDR: 09/05/2008  
Date Made Active in Reports: 09/23/2008  
Number of Days to Update: 18

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Semi-Annually

## INDIAN UST R7: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 06/01/2007  
Date Data Arrived at EDR: 06/14/2007  
Date Made Active in Reports: 07/05/2007  
Number of Days to Update: 21

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/21/2008  
Date Data Arrived at EDR: 09/04/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 5

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 07/11/2008  
Date Data Arrived at EDR: 07/11/2008  
Date Made Active in Reports: 08/08/2008  
Number of Days to Update: 28

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/22/2008  
Date Data Arrived at EDR: 08/22/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 18

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 08/18/2008  
Next Scheduled EDR Contact: 11/17/2008  
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: 04/02/2008  
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 1  
Telephone: 617-918-1102  
Last EDR Contact: 07/21/2008  
Next Scheduled EDR Contact: 10/20/2008  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/21/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Varies

## EDR PROPRIETARY RECORDS

### Manufactured Gas Plants: 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/21/2008	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 08/22/2008	Telephone: 510-567-6700
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 08/20/2008
Number of Days to Update: 12	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 08/21/2008	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 08/22/2008	Telephone: 510-567-6700
Date Made Active in Reports: 08/29/2008	Last EDR Contact: 08/20/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Semi-Annually

### CONTRA COSTA COUNTY:

#### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/03/2008	Source: Contra Costa Health Services Department
Date Data Arrived at EDR: 09/04/2008	Telephone: 925-646-2286
Date Made Active in Reports: 09/18/2008	Last EDR Contact: 08/25/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: Semi-Annually

### FRESNO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 08/07/2008	Source: Dept. of Community Health
Date Data Arrived at EDR: 08/08/2008	Telephone: 559-445-3271
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 08/04/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/03/2008
	Data Release Frequency: Semi-Annually

## KERN COUNTY:

### Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 06/02/2008	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 06/03/2008	Telephone: 661-862-8700
Date Made Active in Reports: 07/02/2008	Last EDR Contact: 09/15/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

## LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998	Source: EPA Region 9
Date Data Arrived at EDR: 07/07/1999	Telephone: 415-972-3178
Date Made Active in Reports: N/A	Last EDR Contact: 07/14/2008
Number of Days to Update: 0	Next Scheduled EDR Contact: 10/13/2008
	Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/30/2008	Source: Department of Public Works
Date Data Arrived at EDR: 06/24/2008	Telephone: 626-458-3517
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/11/2008
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 08/12/2008	Source: La County Department of Public Works
Date Data Arrived at EDR: 08/22/2008	Telephone: 818-458-5185
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 08/13/2008
Number of Days to Update: 12	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Varies

### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2008	Source: Engineering & Construction Division
Date Data Arrived at EDR: 03/20/2008	Telephone: 213-473-7869
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 09/08/2008
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/14/2008	Source: Community Health Services
Date Data Arrived at EDR: 04/10/2008	Telephone: 323-890-7806
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/11/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 05/27/2008	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 06/10/2008	Telephone: 310-524-2236
Date Made Active in Reports: 07/02/2008	Last EDR Contact: 09/10/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 10/23/2003	Telephone: 562-570-2563
Date Made Active in Reports: 11/26/2003	Last EDR Contact: 08/18/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/26/2008	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 02/27/2008	Telephone: 310-618-2973
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 09/10/2008
Number of Days to Update: 16	Next Scheduled EDR Contact: 11/10/2008
	Data Release Frequency: Semi-Annually

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/04/2008	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 08/29/2008	Telephone: 415-499-6647
Date Made Active in Reports: 09/15/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Semi-Annually

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/09/2008	Telephone: 707-253-4269
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 09/22/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/22/2008
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Annually

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 06/02/2008  
Date Data Arrived at EDR: 06/13/2008  
Date Made Active in Reports: 06/20/2008  
Number of Days to Update: 7

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 09/04/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/02/2008  
Date Data Arrived at EDR: 06/16/2008  
Date Made Active in Reports: 06/20/2008  
Number of Days to Update: 4

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 09/04/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 06/02/2008  
Date Data Arrived at EDR: 06/13/2008  
Date Made Active in Reports: 07/14/2008  
Number of Days to Update: 31

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 09/04/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007  
Date Data Arrived at EDR: 07/23/2007  
Date Made Active in Reports: 08/09/2007  
Number of Days to Update: 17

Source: Placer County Health and Human Services  
Telephone: 530-889-7312  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/15/2008  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/15/2008  
Date Data Arrived at EDR: 07/18/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 13

Source: Department of Public Health  
Telephone: 951-358-5055  
Last EDR Contact: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/02/2008	Source: Health Services Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 951-358-5055
Date Made Active in Reports: 08/29/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/13/2008
	Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/08/2008	Telephone: 916-875-8406
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

### ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/08/2008	Telephone: 916-875-8406
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

### 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: 06/23/2008	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 06/23/2008	Telephone: 909-387-3041
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 09/02/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### 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: 05/16/2005	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 05/18/2005	Telephone: 619-338-2268
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 07/29/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/2007  
Date Data Arrived at EDR: 02/05/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 9

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 09/02/2008  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

## 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: 06/04/2008  
Date Data Arrived at EDR: 07/25/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 6

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 07/03/2008  
Next Scheduled EDR Contact: 09/29/2008  
Data Release Frequency: Varies

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 06/02/2008  
Date Data Arrived at EDR: 06/03/2008  
Date Made Active in Reports: 06/20/2008  
Number of Days to Update: 17

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/02/2008  
Date Data Arrived at EDR: 06/03/2008  
Date Made Active in Reports: 07/14/2008  
Number of Days to Update: 41

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 09/15/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 08/26/2008  
Date Data Arrived at EDR: 08/27/2008  
Date Made Active in Reports: 09/15/2008  
Number of Days to Update: 19

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 07/14/2008  
Next Scheduled EDR Contact: 10/13/2008  
Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/18/2008  
Date Data Arrived at EDR: 06/18/2008  
Date Made Active in Reports: 06/20/2008  
Number of Days to Update: 2

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 07/09/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 07/10/2008  
Date Data Arrived at EDR: 07/11/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 20

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 07/09/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

### 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: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: No Update Planned

### LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 07/17/2008  
Date Data Arrived at EDR: 07/18/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Varies

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/02/2008  
Date Data Arrived at EDR: 09/04/2008  
Date Made Active in Reports: 09/18/2008  
Number of Days to Update: 14

Source: City of San Jose Fire Department  
Telephone: 408-277-4659  
Last EDR Contact: 09/02/2008  
Next Scheduled EDR Contact: 12/01/2008  
Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/23/2008  
Date Data Arrived at EDR: 07/09/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 22

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Quarterly

### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2008  
Date Data Arrived at EDR: 07/03/2008  
Date Made Active in Reports: 07/25/2008  
Number of Days to Update: 22

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/22/2008  
Next Scheduled EDR Contact: 12/22/2008  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2008	Source: Department of Health Services
Date Data Arrived at EDR: 07/22/2008	Telephone: 707-565-6565
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/21/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 06/30/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Semi-Annually

## VENTURA COUNTY:

### 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: 05/29/2008	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 09/10/2008
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Quarterly

### Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 09/04/2008	Telephone: 805-654-2813
Date Made Active in Reports: 09/18/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Annually

### Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 09/09/2008
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/08/2008
	Data Release Frequency: Quarterly

### Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/27/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 07/11/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/25/2008	Last EDR Contact: 07/11/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/06/2008
	Data Release Frequency: Quarterly

## YOLO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Comprehensive Facility Report  
Underground storage tank sites located in Yolo county.

Date of Government Version: 08/11/2008	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/29/2008	Telephone: 530-666-8646
Date Made Active in Reports: 09/15/2008	Last EDR Contact: 07/28/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/14/2008
	Data Release Frequency: Annually

## 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: 12/31/2005	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/15/2007	Telephone: 860-424-3375
Date Made Active in Reports: 08/20/2007	Last EDR Contact: 09/12/2008
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 09/30/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/04/2007	Telephone: N/A
Date Made Active in Reports: 12/31/2007	Last EDR Contact: 08/08/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/03/2008
	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: 07/23/2008	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/28/2008	Telephone: 518-402-8651
Date Made Active in Reports: 09/11/2008	Last EDR Contact: 08/28/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/21/2007	Telephone: N/A
Date Made Active in Reports: 01/10/2008	Last EDR Contact: 09/08/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2007	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/03/2008	Telephone: 401-222-2797
Date Made Active in Reports: 08/07/2008	Last EDR Contact: 09/15/2008
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/15/2008
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 08/22/2008  
Date Made Active in Reports: 09/08/2008  
Number of Days to Update: 17

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 08/22/2008  
Next Scheduled EDR Contact: 10/06/2008  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: PennWell Corporation  
Telephone: (800) 823-6277

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.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Licensed Facilities

Source: Department of Social Services  
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

BLACK ROCK  
PETERSON ROAD / GENTRY ROAD  
CALIPATRIA, CA 92233

### **TARGET PROPERTY COORDINATES**

Latitude (North):	33.15962 - 33° 9' 34.6"
Longitude (West):	115.61438 - 115° 36' 51.8"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	629213.2
UTM Y (Meters):	3669645.8
Elevation:	214 ft. below sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	33115-B5 NILAND, CA
Most Recent Revision:	1995

West Map:	33115-B6 OBSIDIAN BUTTE, CA
Most Recent Revision:	1995

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).

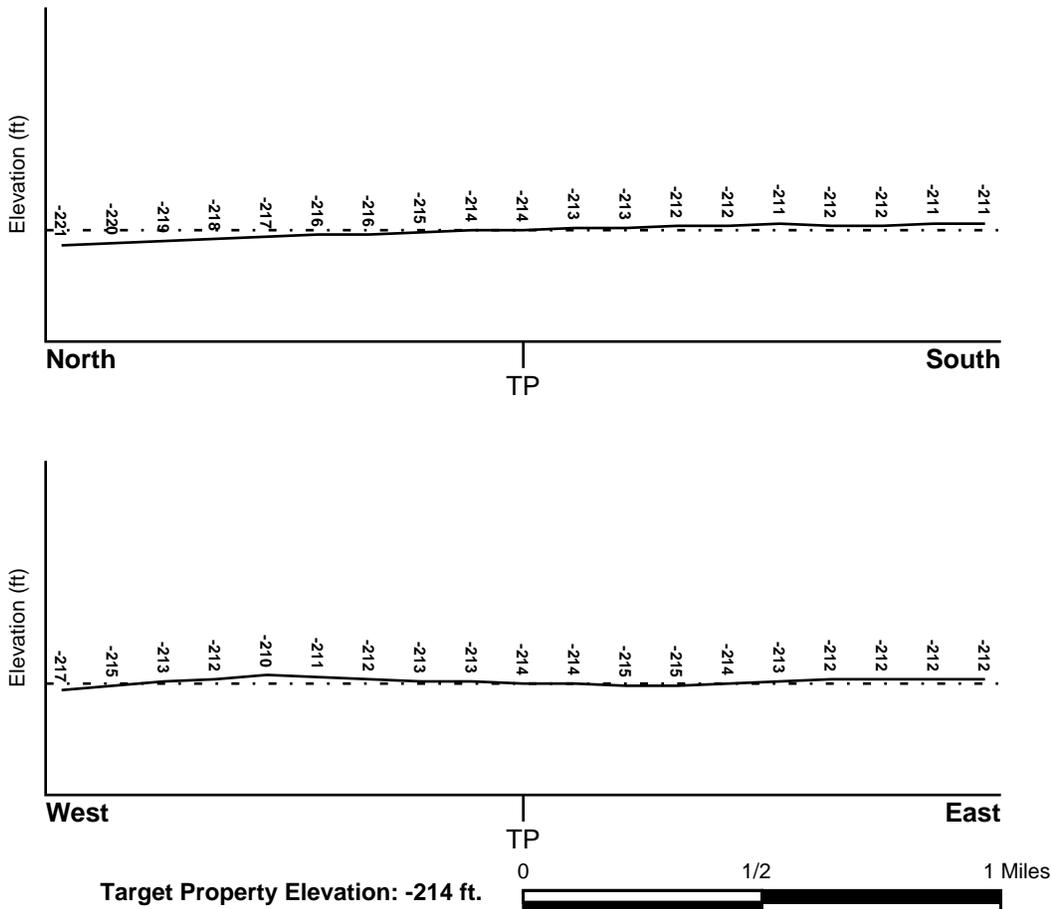
## TOPOGRAPHIC INFORMATION

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 NE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Target Property County</u> IMPERIAL, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0600650425B
Additional Panels in search area:	Not Reported

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> NILAND	<u>NWI Electronic Data Coverage</u> 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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## 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**

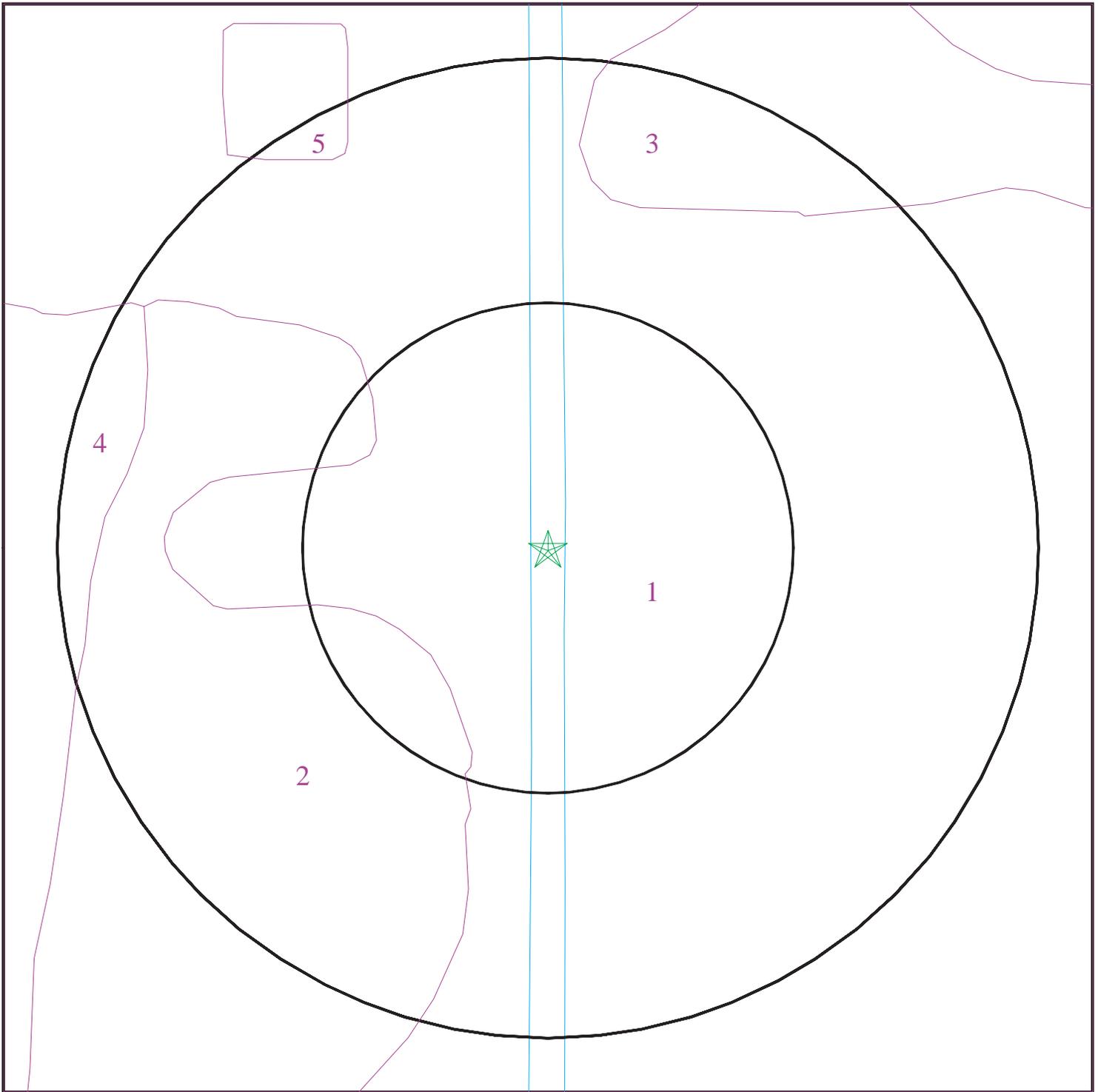
Era: Cenozoic  
System: Quaternary  
Series: Quaternary volcanic rocks  
Code: Qv (*decoded above as Era, System & Series*)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 02327639.2r



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles

SITE NAME: Black Rock  
ADDRESS: Peterson Road / Gentry Road  
Calipatria CA 92233  
LAT/LONG: 33.1596 / 115.6144

CLIENT: ENSR Consulting & Engineering  
CONTACT: cassandra weir  
INQUIRY #: 02327639.2r  
DATE: September 26, 2008 6:12 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Holtville

Soil Surface Texture: silty clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	16 inches	24 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	24 inches	35 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
4	35 inches	59 inches	loamy very fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Imperial

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	11 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

### Soil Map ID: 3

Soil Component Name: Indio

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 8.4 Min: 7.9
2	11 inches	72 inches	stratified loamy very fine sand to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 4	Max: 8.4 Min: 7.9

### Soil Map ID: 4

Soil Component Name: Glenbar

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	12 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

### Soil Map ID: 5

Soil Component Name: Water

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3098070	1/8 - 1/4 Mile NNW
2	USGS3098071	1/4 - 1/2 Mile NW
A3	USGS3098074	1/2 - 1 Mile NW
A4	USGS3098075	1/2 - 1 Mile NW
B5	USGS3098061	1/2 - 1 Mile South
6	USGS3098078	1/2 - 1 Mile NW
C7	USGS3098063	1/2 - 1 Mile SSW
C8	USGS3098062	1/2 - 1 Mile SSW
B9	USGS3098060	1/2 - 1 Mile South
10	USGS3098066	1/2 - 1 Mile West

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

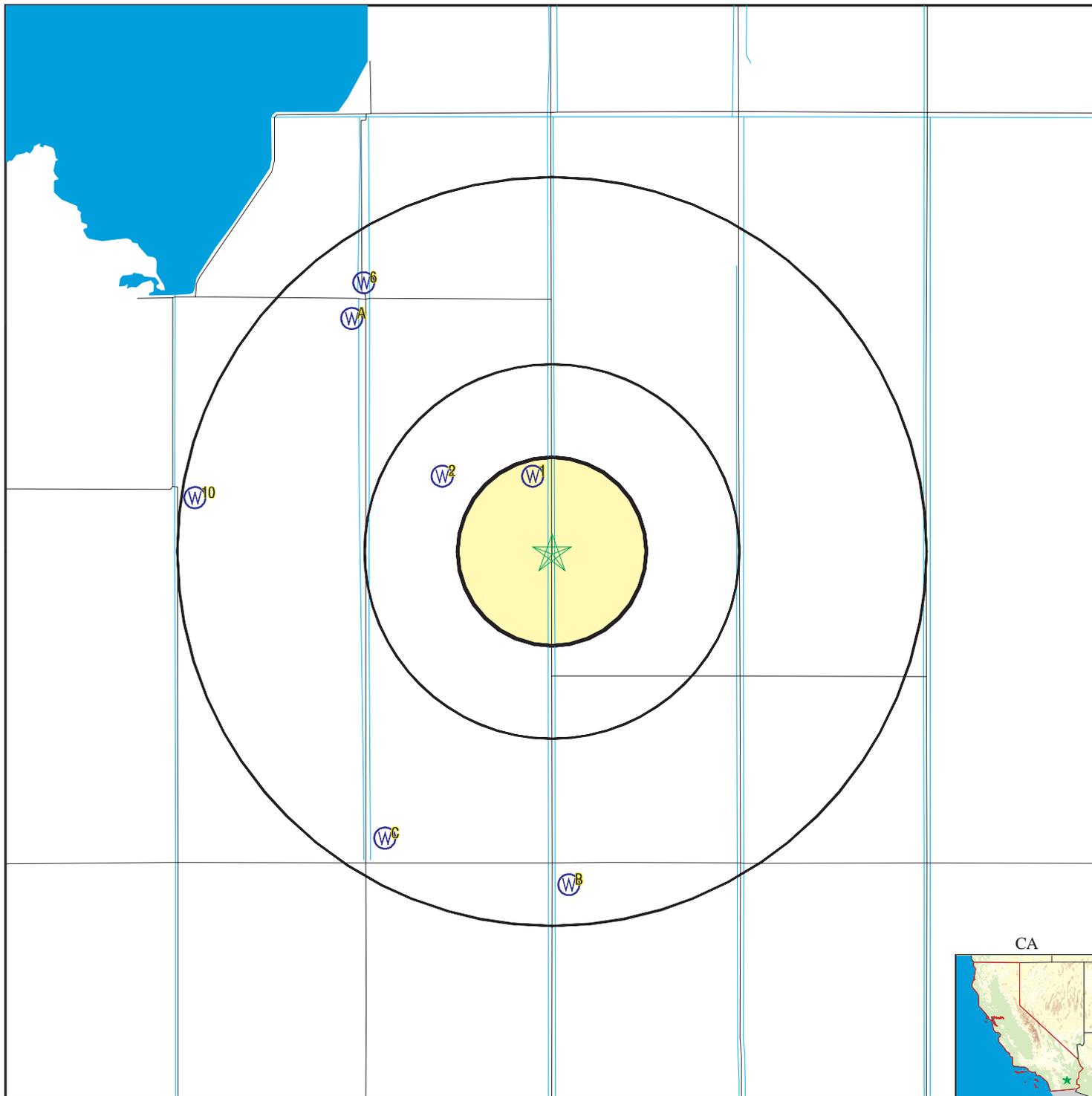
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 02327639.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

No contour lines were detected within this map area.

SITE NAME: Black Rock  
 ADDRESS: Peterson Road / Gentry Road  
 Calipatria CA 92233  
 LAT/LONG: 33.1596 / 115.6144

CLIENT: ENSR Consulting & Engineering  
 CONTACT: cassandra weir  
 INQUIRY #: 02327639.2r  
 DATE: September 26, 2008 6:12 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**

**NNW**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS      USGS3098070**

Agency cd:	USGS	Site no:	330945115365201
Site name:	011S013E33R001S		
Latitude:	330945		
Longitude:	1153652	Dec lat:	33.16254038
Dec lon:	-115.61526874	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1972-02-28
Water quality data end date:	1972-03-01	Water quality data count:	3
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

**2**

**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS3098071**

Agency cd:	USGS	Site no:	330945115370701
Site name:	011S013E33Q001S		
Latitude:	330945		
Longitude:	1153707	Dec lat:	33.16254043
Dec lon:	-115.61943558	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1972-01-17
Water quality data end date:	1972-01-17	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

**A3  
NW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS3098074**

Agency cd:	USGS	Site no:	331007115372201
Site name:	011S013E33L001S		
Latitude:	331007		
Longitude:	1153722	Dec lat:	33.16865137
Dec lon:	-115.62360233	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported  
 Water quality data end date: Not Reported  
 Ground water data begin date: Not Reported  
 Ground water data count: Not Reported

Water quality data begin date: Not Reported  
 Water quality data count: Not Reported  
 Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

**A4**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3098075**

Agency cd:	USGS	Site no:	331007115372202
Site name:	011S013E33L002S		
Latitude:	331007		
Longitude:	1153722	Dec lat:	33.16865137
Dec lon:	-115.62360233	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B5**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3098061**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	330849115364501
Site name:	012S013E10D002S		
Latitude:	330849		
Longitude:	1153645	Dec lat:	33.14698538
Dec lon:	-115.61332441	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	1963-07-03	Water quality data begin date:	1963-00-00
Water quality data end date:	1963-07-03	Water quality data count:	2
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

**6  
NW  
1/2 - 1 Mile  
Lower**

**FED USGS USGS3098078**

Agency cd:	USGS	Site no:	331012115372001
Site name:	011S013E33F001S		
Latitude:	331012		
Longitude:	1153720	Dec lat:	33.1700402
Dec lon:	-115.62304673	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C7**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3098063**

Agency cd:	USGS	Site no:	330855115371701
Site name:	012S013E04Q002S		
Latitude:	330855	Dec lat:	33.14865211
Longitude:	1153717	Coor meth:	M
Dec lon:	-115.62221364	Latlong datum:	NAD27
Coor accr:	U	District:	06
Dec latlong datum:	NAD83	County:	025
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1964-06-04
Water quality data end date:	1964-06-05	Water quality data count:	2
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C8**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3098062**

Agency cd:	USGS	Site no:	330854115371601
Site name:	012S013E04Q001S		
Latitude:	330854		
Longitude:	1153716	Dec lat:	33.14837434
Dec lon:	-115.62193585	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B9**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3098060**

Agency cd:	USGS	Site no:	330847115364701
Site name:	012S013E10D001S		
Latitude:	330847		
Longitude:	1153647	Dec lat:	33.14642985
Dec lon:	-115.61387999	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	2.5		
Altitude datum:	Not Reported		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**10  
West  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS3098066**

Agency cd:	USGS	Site no:	330940115375001
Site name:	S-43		
Latitude:	330942		
Longitude:	1153748	Dec lat:	33.16170729
Dec lon:	-115.63082492	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	025
Country:	US	Land net:	Not Reported
Location map:	OBSIDIAN BUTTE	Map scale:	24000
Altitude:	-224		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Salton Sea. California. Area = 7250 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	19880517	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Drain dug to water table or potentiometric surface to either lower ground-water level or serve as a water supply		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	470646200		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0

Water quality data end date: 1988-05-17

Ground water data begin date: 0000-00-00

Ground water data count: 0

Water quality data begin date: 1988-05-17

Water quality data count: 1

Ground water data end date: 0000-00-00

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for IMPERIAL County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for IMPERIAL COUNTY, CA

Number of sites tested: 2

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
Living Area - 1st Floor	1.450 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> 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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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 Health Services

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

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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## **APPENDIX C**

### **Qualifications of Environmental Professionals**

# Kirsten G. Bradford

Project Specialist

**Years Experience:** 5

## Technical Specialties

- Environmental Site Assessments/Due Diligence
- Limited Environmental Compliance
- Storm Water Pollution Prevention Planning and Permitting
- Oil Spill Control and Countermeasure Planning
- Field Sampling

## Professional History

- AECOM Environment
- Lee & Pierce, Inc.
- Environmental Investigation Services, Inc.
- QTL Biosystems, LLC
- New Mexico Department of Health, Scientific Laboratory Division
- New Mexico Institute of Mining and Technology, Atmospheric & Environmental Chemistry Research Lab
- New Mexico Bureau of Mining & Mineral Resources, Chemistry Division

## Education

- BS (Chemistry) New Mexico Institute of Mining & Technology  
(New Mexico Tech)

## Training

- 40-hour OSHA HAZWOPER
- Refresher &/or Initial General Site Worker Requirements
- Standard First Aid
- CPR - Adult
- Bloodborne Pathogens
- Hydrogen Sulfide Awareness For Exposure In Oil & Gas Prod. Fields & Industrial Facilities
- Environmental Due Diligence
- Effective Scientific and Technical Writing
- Environmental Auditor
- 9th Annual California Certified Unified Program Agency (Cal-CUPA)
- PARCEL eLearning
- Leading an Engaged Workforce
- Risk Based Sales Training

## Representative Project Experience

Compliance

**Teachers Insurance & Annuity Association (TIAA), Limited Compliance Assessment and Desktop Review, Ventura County, California.** Conducted a limited compliance assessment of two apartment home complexes. On-site improvements and activities were related to office buildings, hydraulic-powered elevators, pool and spa systems, maintenance shops, and storage areas.

Visual inspections of the on-site operations, reviews of facility files and records, reviews of federal and state governmental incident databases and files, and interviews with property personnel and governmental officials to evaluate the relative degree of compliance of on-site operations with key federal and state environmental regulations as they relate to hazardous waste; solid waste and asbestos-containing materials; conventional and toxic air emissions; underground and above ground storage tanks; wastewater discharges including storm water; and PCB management.

**Johnson & Johnson, Phase I Environmental Site & Limited Compliance Assessment, Orange County, California.** Conducted assessment of a research and development (R&D) company that designs therapeutic health devices. On-site operations included laboratory and machine shop activities.

Limited compliance applied included Hazardous Materials Business Planning and Inventorying principles to comply with California legislation to meet the requirements of Sections 311 and 312 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (SARA Title III); and wastewater discharge permitting principles to comply with local industrial waste program.

**BOC Edwards, Phase I Environmental Site Assessment and Compliance Evaluation, Maricopa County, Arizona.** Conducted a Phase I ESA of two industrial facilities located in Maricopa County, Arizona that clean and coat parts in support of semiconductor equipment and considered compliance with laws and permits with respect to the following issues as a minimum: Aqueous abstractions and discharges; Atmospheric emissions; Solid and hazardous waste management; Above and below ground tank management; Nuisance; Asbestos; Poly Chlorinated Biphenyls (PCBs). Information provided by the sites was further studied and correlated with existing information to determine findings and to prepare a Phase I ESA report.

Emergency Hazardous Material Spill Response

**Nutro Products, Inc., Hazardous Materials Business Response Plan, Victorville County, California.** Assessed on-site hazardous chemical storage and operations and prepared completed agency plan forms for a dry dog food manufacturing plant. On-site hazardous materials and wastes inventoried included lubricating oils, insecticide mixture oil concentrate, diesel fuel, product ingredients containing oil, bulk storage of vegetable oil, and bulk storage of poultry fat.

Environmental Site Assessments

**Gibson Dunn & Crutcher, Phase I Environmental Site Assessment, Maricopa County, Arizona.** Assessment was conducted of warehouse, repair, and maintenance facilities for heavy-duty trucks and truck parts. Historical setting included on-site fueling operations and remedial action closure activities.

**Public Storage, Inc., Environmental Support with File Review, San Diego County, California.** Conducted site assessment and file review to establish historical on-site remedial action activities including groundwater monitoring, and current site case status with local regulatory agency. Made recommendations for activities directed toward achieving site case closure, and in complying with State of California Geotracker database requirements.

**Teachers Insurance & Annuity Association (TIAA), Phase I Environmental Site Assessment, Maricopa County, Arizona.** Conducted assessment of a multi-story corporate office building. On-site improvements assessed included hydraulic-powered elevators, stormwater retention areas and on-site dry wells, a fuel-powered generator, storage areas, and a rooftop cooling plant. Focused assessment was conducted into observing each on-site tenant space. Assessment activities included American Society Testing Materials (ASTM) 1527 additional scope issues including visual observation for evidences of suspect asbestos-containing materials and of water intrusion and mold growth. Additionally, on-site improvements were investigated by conducting file reviews and interviews with government and regulatory agencies.

**Weil, Gotshal & Manges LLP, Phase I Environmental Site Assessment, Clackamas & Washington Counties, Oregon.** Conducted an assessment of warehouse distribution and office facilities.

On-site retail warehousing activities included an on-site truck wash, a trailer maintenance shop, a fueling island; and fuel-powered generators, hydraulic-powered lifts, and storage areas including for lead-acid (wet-type) batteries to power forklifts.

**International Paper Company, Timberlands Environmental Site Assessment, Alabama.** Conducted assessment of 215,000 acres of timberland in accordance with American Society for Testing and Materials Standard (ASTM) Practice E 2247-02. Used GIS tracking to record routes and mark specific areas of potential environmental concern including log yards and camps, fuel use and storage, pesticide and herbicide use, burning practices, logging roads, sand and gravel pits, hunting camps and leases, and landfills.

**First Industrial Realty Trust, Phase I Environmental Site Assessment, Los Angeles County, California.** Conducted assessment of an office/warehouse facility including an ancillary former hazardous materials storage building and truck loading docks. Assessment included review of local government records to identify historical improvements and uses.

**Acushnet Company, Phase I Environmental Site Assessment, San Diego County, California.** Conducted assessment of agricultural property including historical fuel storage areas.

**General Electric, Phase I Environmental Site Assessments, Santa Barbara County, California.** Conducted assessment of tenant spaces located in three office buildings in the City of Santa Barbara. Presented findings on detailed predetermined form format provided by the user/client. Research included a detailed review of building department permit site record history.

**Quality Project Management, Phase I Environmental Site Assessment & File Reviews, San Diego County, California.** Conducted assessment of two vacant parcels previously developed. Performed 1,500 page file review of site and adjoining sites based on their historically uses as former gasoline service stations, each with historical unauthorized releases affecting groundwater. Analyzed historical soil sampling, remediation activities, and groundwater monitoring data to identify potential environmental impacts to the site from historical uses associated with on-site contamination sources or from off-site contamination sources.

**U.S. Filter Operating Services, Phase I Environmental Site Assessment, Kern County, California.** Conducted assessment of an equipment and maintenance yard including an outdoor storage area for portable equipment used for petroleum dewatering applications, and including two shop buildings in support of metal fabrication and welding of heavy portable equipment, and oil research and development (R&D) laboratory activities.

**Phase I Environmental Site Assessment Portfolio, Los Angeles County, California.** Was the lead assessor in a series of seven Phase I ESAs within the Phase I ESA portfolio which included assessment of non-scope ASTM 1527 items, including methane gas.

**SunTrust, Phase I Environmental Site Assessments, Florida and South Carolina.** Assisted in completing a company-wide environmental due diligence portfolio as a report author of multiple sites located in Florida and South Carolina by using an online database Phase I ESA report collection and preparation tool, PARCEL.

**Algonquin Power, Oil Spill Assessment Portfolio, Southern California.** Conducted oil spill assessments of landfill gas to energy facilities located in Southern California.

**Air Liquide, Phase I Environmental Site Assessment, Salt Lake County, UT and Sweetwater County, WY.** Conducted a Phase I ESA of two planned plant location sites. In conducting the Phase I ESA, ENSR assessed the sites for visible signs of possible contamination, researched public records for the sites, and conducted interviews with representatives of regulatory agencies, the client, and those people deemed knowledgeable of the sites. ENSR successfully observed the sites during extreme weather conditions including snow cover and freezing temperatures.

**Eagle Burgmann Industries LP, Phase I Environmental Site Assessments, Harris and Brazoria Counties, TX.** Conducted two Phase I ESAs of warehouse properties in conformance to the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E 1527-05), which meets the requirements of 40 CFR Part 312 and is intended to constitute all appropriate inquiry for purposes of the landowner liability protections (LLPs).

**Public Storage, Inc., Phase I Environmental Site Assessment, Southern, California.** Conducted assessments of multiple self storage facilities.

**Sargent & Lundy, Phase I Environmental Site Assessment, San Diego County, California.** Conducted assessment in support of Environmental Due Diligence study for the purchase of a site being developed for a future gas-fired power plant. Site characteristics included existing biological and archeological conservation easements. Historical on-site activities investigated included cement truck cleanouts, refueling operations, and grading.

**T.A. Realty Corporation, Phase I Environmental Site Assessments, Southern and Northern California.** Conducted assessments of corporate office buildings (e.g. multi-story, multi-tenant) and distribution warehouses.

On-site improvements assessed have included hydraulic-powered elevators and lifts, loading dock areas, fuel-powered generators, storage areas, and warehouse areas. Focused research was conducted into on-site historical tenant activities. Assessment activities have included American Society Testing Materials (ASTM) 1527 additional scope issues included visual observation for evidences of suspect asbestos-containing materials and of water intrusion and mold growth.

Additionally, off-site potential sources of environmental concern (e.g. abutting CERCLA sites with impacted groundwater from historical site operations) were identified and investigated by conducting regulatory file reviews and interviews with regulatory agencies.

#### NPDES Permitting

**Bendix Commercial Vehicle Systems, LLC, Storm Water Pollution Prevention Plan (SWPPP), Fresno County, California.** Prepared a Storm Water Pollution Prevention Plan (SWPPP) for a heavy-vehicle brake manufacturing facility in Fresno County, California while addressing the current National Pollutant Discharge Elimination System (NPDES) regulations, 40 CFR Section 122.26, and complying with California's General Permit. Incorporated recently proposed changes for the storm water program in California, and made every effort to ensure that the SWPPP developed for the facility would comply with the new requirements. Tasks involved included a site visit, a Best Management Practice (BMP) assessment, and preparation of the Plan.

**ExxonMobil Oil Corporation, Storm Water Pollution Prevention Plan (SWPPP), Los Angeles County, CA.** Supported the completion of a Storm Water Pollution Prevention Plan (SWPPP) for a project site located within a State right-of-way, and the acquisition of an Encroachment Permit from the California Department of Transportation (CalTrans) that is in compliance with requirements of its National Pollutant Discharge Elimination System (NPDES) permit in regards to its submission to the Regional Water Quality Control Board (RWQCB).

**ExxonMobil Oil Corporation, Storm Water Pollution Prevention Plan (SWPPP) Training, Los Angeles County, CA.** Provided training on how to implement the Storm Water Pollution Prevention Plan (SWPPP) and associated Best Management Practices (BMPs) to client staff and contractors at a pre-construction meeting for the client's proposed project. Tasks included preparation of a PowerPoint presentation as well as attendance at the client's pre-construction meetings.

Soil Borings

**Yardi Systems, Inc., Limited Phase II Environmental Site Assessment, Santa Barbara County, California.** Conducted an assessment of a vacant parcel to evaluate soil and groundwater conditions in the area of a former on-site diesel-fuel underground storage tank (UST). Assessment activities included coordination of Geoprobe sampling to a depth of approximately 20 feet below ground surface, and an analysis of laboratory analytical soil and groundwater sample results including total petroleum hydrocarbons in gasoline (TPH-G) and diesel-fuel (TPH-D) and for volatile organic compounds (VOCs).

**Becker Industrial Coatings, Limited Phase II Environmental Site Assessment, San Bernardino County, California.** Conducted a limited Phase II ESA including eight soil borings at an industrial facility and oversaw a contracted truck mounted, hydraulically operated Geoprobe® sampling system and crew. Attempts to advanced the borings to the proposed depth of 20 feet bgs had to be negotiated as cobbles and/or boulders were encountered at drilling depths. Collected soil samples were screened with a photoionization detector (PID). The collected soil samples were preserved and extracted in accordance with U.S. EPA Method 5035.

Soil Vapor & Air Quality Surveys

**Department of Toxic Substances Control, Start-Up Testing of Methane Mitigation System, Ventura County, California.** Supported start-up testing of a methane mitigation system by monitoring for methane concentrations in the field using portable hand-held methane-specific instruments such as a flame-ionization detector (FID) and the LANDTEC Gem, 2000 Landfill Gas Indicator or equivalent instruments. Recorded barometric pressure will with a barometer and measured subsurface concentrations of methane, oxygen, and carbon dioxide using a combination of the FID and LGI instruments. Measured indoor vent-riser pipes with the FID and LGI for methane concentrations.

Spill Contingency Plans

**County of Ventura, Department of Airports, Spill Prevention Control and Countermeasure Plan (SPCC), Ventura County, California.** Assessed on-site petroleum storage facilities and operations and prepared a plan based on SPCC requirements for a general aviation reliever airport. On-site potential petroleum pollutant sources evaluated included an aviation fuel tank farm, diesel fuel aboveground tanks associated with a deluge fire protection system, diesel fuel associated with an emergency backup generator, and used-oil storage.

**Nutro Products, Inc., Spill Prevention Control and Countermeasure Plan (SPCC), Victorville County, California.** Assessed on-site petroleum storage facilities and operations and prepared a plan based on SPCC requirements for a dry dog food manufacturing plant. On-site potential petroleum pollutant sources evaluated included lubricating oils, insecticide mixture oil concentrate, diesel fuel, product ingredients containing oil, bulk storage of vegetable oil, and bulk storage of poultry fat.

***Southern California Gas Company, Integrated Storm Water/Oil Spill Prevention Control and Countermeasure (SPCC) Plan Updates Portfolio, Southern California.*** Conducted site reconnaissance and modified original draft documents of a dozen natural gas compression facilities in order to reconcile and update their existing Integrated SWPP (stormwater) and SPCC (oil spill) Plans.

## Publications

Detection of Single Nucleotide Mismatches via Fluorescent Polymer Superquenching  
Kushon, S.A.; Bradford, K.; Marin, V.; Suhrada, C.; Armitage, B.A.; McBranch, D.;  
Whitten, D.; Langmuir; (Article); 2003; ASAP Article; DOI: 10.1021/la034323v

Detection of DNA Hybridization via Fluorescent Polymer Superquenching  
Kushon, S.A.; Ley, K.D.; Bradford, K.; Jones, R.M.; McBranch, D.; Whitten, D.;  
Langmuir; (Communication); 2002; 18 (20); 7245-7249. DOI: 10.1021/la026211u

Bateman, Kirsten G., *K/Fe Ratio in Wood-Smoke*, Sigma-Xi Poster Session,  
Albuquerque, NM, November 2000.

# Jim K. Fickerson

Senior Project Manager

Years Experience: 15

## Technical Specialties

- Project Management
- Environmental Due Diligence
- Environmental Liability Cost Analysis
- Environmental Permitting
- Integrated Site Closure

## Professional History

- ENSR
- Texaco Refining and Marketing, Inc.
- City of Saratoga

## Education

- BS (Environmental Studies) San Jose State University

## Professional Registrations and Affiliations

- California Registered Environmental Assessor (REA) I, California – REA I - 07745

## Summary

Mr. Fickerson is a Senior Project Manager in ENSR Corporation's, Camarillo, California office. Mr. Fickerson is the client steward for two national real estate investment trusts and one national construction rental company. In this capacity, Mr. Fickerson manages all aspects of the clients environmental risk management, including environmental due diligence, agency negotiations, portfolio acquisition strategy, and environmental liability management. Over the last five years Mr. Fickerson has successfully managed the environmental assessment, remediation and regulatory site closure of three former petroleum bulk plants and three former retail petroleum sites located in Arizona and California.

As a senior environmental assessor, Mr. Fickerson has coordinated and/or personally performed over 1,000 due diligence projects on commercial and industrial property located throughout the country. In this capacity, Mr. Fickerson has managed numerous subsurface investigations, groundwater studies, risk assessments, remedial feasibility studies, remedial cost evaluations, regulatory agency negotiations, and regulatory site closures throughout the United States including in Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Illinois, Massachusetts, Maryland, Minnesota, Nevada, New Jersey, New York, North Carolina, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Maryland, Utah, Washington, and Wisconsin.

## Project Experience

### Integrated Site Closure

June 2005 to February 2008. Chevron Environmental Management Corporation. Mr. Fickerson managed the environmental assessment and remediation of a former gasoline service station located in Santa Barbara, California. During his two and half years as project manager, he managed various site characterization activities; pilot testing of multi-phase extraction, vapor extraction, and bio-sparging remediation technologies; the completion of a sensitive receptors survey; and the rebuilding of a sense of trust with the regulatory agency. Under Mr. Fickerson direction, a conceptual remedial action plan was developed and preparations were made to install a full scale remediation system.

February 2003 to December 2006. Unocal Corporation. Mr. Fickerson managed the environmental site assessment and remediation of a former bulk fuel terminal in Yuma, Arizona. Non aqueous phase liquids were present both onsite and offsite at thickness ranging between 0.5 and 3 feet. Long term remediation costs using conventional remediation technologies were forecast in excess \$2.5M. Due the extent of non aqueous phase liquids (both on and offsite) regulatory site closure was not considered feasible using conventional remedial technologies. In addition, the operation of the existing multi-phase extraction system was costing in excess of \$250K/year with marginal hydrocarbon recovery rates. Mr. Fickerson managed the design, execution, and analysis of a steam injection pilot test at this site. Results of a one month pilot test indicated that steam injection increased hydrocarbon recovery by 500 percent. A financial analysis indicated that over \$1M would be saved by the site wide implementation of a steam injection based remediation system with regulatory site closure estimated at two years from implementation.

February 2003 to December 2006. Chevron Corporation. Mr. Fickerson managed the environmental assessment and remediation of a former bulk fuel terminal in Phoenix, Arizona under the tight time restriction imposed by an Aquifer Protection Permit. Working closely with Arizona Department of Environmental Quality, Mr. Fickerson coordinated a comprehensive subsurface soil and groundwater assessment including the advancement of 38 borings, six groundwater wells from depth ranging between 15 and 110 feet below ground surface. Mr. Fickerson lead the remediation team that excavated 3,500 tons of petroleum impacted soil from nine onsite areas of concern; the installation of eight multi-zone vapor extraction/bio-venting wells, and the construction and startup of a soil vapor extraction system.

March 2004 to November 2005. Unocal Corporation. Mr. Fickerson managed the regulatory site closure of a former gasoline service station in Phoenix, Arizona. The site was located on the corner of a busy street near downtown Phoenix that had become blighted by years of inactivity. The sale of the site and its redevelopment was being hindered by the presence of 1-2-DCA in groundwater at concentrations that exceeded regulatory cleanup objectives. Complicating issues was a nearby dry cleaner whose release was impacting the groundwater beneath the service station. Working with risk assessment team, Mr. Fickerson was able to convince ADEQ that the remaining 1-2-DCA did not present a risk to human health or the environment, and that regulatory site closure should be issued. The site was subsequently redeveloped for beneficial use.

March 2004 to November 2005. Unocal Corporation. Despite extensive onsite assessment and remediation by others, regulatory site closure of a former bulk plant in Safford, Arizona was hindered by a commingled plume from an nearby gasoline service station. Working with a team of hydrologists, Mr. Fickerson was able to convince ADEQ that the presence of benzene along the sites eastern border was a result of the nearby gasoline service station, rather than from an onsite release. Regulatory site closure was granted allowing the site to be sold and redeveloped for beneficial use.

## Due Diligence

July 2006 to Present. Academy of Motion Pictures and Sciences. Phase I and Phase II Environmental Site Assessments. Mr. Fickerson is managing the environmental due diligence and environmental liability analysis associated with the acquisition of one city block located in the middle Hollywood of California. Activities conducted to date include reconnaissance of the site and surrounding neighborhood; a review of various historical resources; an analysis of a regulatory database report, review of local and state regulatory agency files, and researching the physical characteristics of the site. Recognized environmental conditions that were identified included current and former USTs, dry cleaners, and the historical use of chlorinated solvents. These environmental concerns were further evaluated by the implementation of a comprehensive subsurface investigation program including the collection and laboratory analysis of soil, soil vapor, and groundwater samples. Over 10 technical environmental reports were prepared summarizing the results of the numerous investigations. Mr. Fickerson and his project team are currently providing the client with technical guidance regarding vapor intrusion mitigation/remediation and environmental liability cost analysis/budgeting for future site redevelopment.

February to April 2008. The Amargosa Conservancy. Mr. Fickerson performed a Phase I environmental site assessment of the historic mining town of Death Valley Junction, Inyo County, California. The assessment involved a site and area reconnaissance of 246 acres; a review of over 100 years of historical documents; an analysis of a regulatory database report, review of local and state regulatory agency files, researching the physical characteristics of the site, and preparation of a report. Recognized environmental conditions identified included a former gasoline service station, significant hydrocarbon staining beneath a former diesel-fuel ASTs, and a former onsite landfill/debris field.

December 2007. MeadWestvaco. Mr. Fickerson performed a Phase I environmental site assessment of a 100,000 square-foot envelope manufacturing plant located on approximately 3.5 acre parcel near downtown Los Angeles, California. The assessment involved a site and area reconnaissance; a review of various historical resources; an analysis of a regulatory database report, review of local and state regulatory agency files, researching the physical characteristics of the site, and preparation of a report.

November 2007. Isle of Capri Casinos. Mr. Fickerson managed the environmental due diligence of the former Multnomah Greyhound Park located on 30 acres in the town of Wood Village, Oregon. This project involved the rapid mobilization of an assessor to visit the site, and a comprehensive historical, regulatory, and environmental database review, and preparation of a report all within the span of less than two weeks in order to meet client's real-estate transaction requirements. Potential environmental liabilities associated with the transaction were evaluated and a budgetary cost estimate was prepared to assist the client in negotiating an equitable purchase price for the property.

September 2007. Chevron Corporation. Mr. Fickerson performed a technical cost evaluation of 2005 buy-out negotiations between Unocal and Conoco Phillips to determine reasons why the negotiations were not successful including the methods used to generate the allocation values, and document the lessons learned from the project. Results of the negotiations analysis concluded that the negotiations were not successful due in part to the use of differing unit costs, remediation strategy, closure timing, and scope of work. Lessons learned included the importance of having a well-defined cost allocation methodology, agreement on key assumptions, unit costs, and end point prior to beginning negotiations.

September 2007. Air Liquide. Mr. Fickerson performed and managed the environmental due diligence associated with the acquisition of a former gasoline fuel blending facility located on 14 acres in San Bernardino, California. Mr. Fickerson designed and implemented a comprehensive soil boring and geophysical survey program to fully evaluate over 30 recognized environmental conditions that were identified. At the conclusion of the project, a budgetary cost estimate that quantified the environmental liabilities associated with the transaction was prepared.

June 2007. FPL Energy. Mr. Fickerson performed the environmental due diligence of the 2,270 acre Fremont Valley Ranch located near California City, California. This assessment involved an in-depth historical, regulatory, internet, and environmental database report review, in conjunction with a site visit, and interviews with current and former employees of the Ranch. Three recognized environmental conditions were identified including existing underground storage tanks and fueling dispensers. At the conclusion, a budgetary cost estimate was prepared to quantify the potential environmental liability associated with the Ranch.

April 2007. Confidential Client. Mr. Fickerson conducted a Phase I environmental site assessment and limited compliance evaluation of 280,000 square-foot chemical storage facility located in Brisbane, California. The project involved a comprehensive historical, regulatory, and environmental database review; as well as interviews with facility management and workers; a thorough site walk; a lengthy document review of the facilities environmental compliance documentation; and research into the facilities off-site contingent liabilities. The project was conducted under strict client confidentiality that was required by the merger and acquisition of two fortune 500 companies.

July 2006. Public Storage. Project manager for the environmental site screening of 47 self-storage properties located throughout North and South Carolina. The project involved sites visits; historical research; regulatory agency and environmental database review; interviews with facility personal; a review of previously prepared environmental reports; preparation of site-specific summary reports; and a preparation of a comprehensive cost analysis to quantify the environmental liabilities associated with the transaction. This challenging project was completed within a tight two week timeframe.

May 2006. TA Realty Advisors. Project manager for the environmental site assessment of 15 commercial properties located throughout Southern California. This project involved the preparation of 15 Phase I environmental site assessments, five asbestos surveys and a comprehensive cost analysis to quantify the environmental liabilities associated with the transaction.

May 2006. P.S. Business Parks. Mr. Fickerson managed the environmental due diligence associated with three industrial properties located in Signal Hill, California. Recognized environmental conditions identified at the sites included former oil sumps, waste disposal areas, and petroleum production facilities. The environmental concerns associated with each site were further evaluated by the implementation of a comprehensive subsurface soil boring and geophysical program. Identified environmental liabilities were further analyzed and a budgetary cost estimate was prepared to assist the client in their purchase of the sites. The entire project was completed under budget and within the tight time constraints of a real estate transaction.

July to September 2004. Pubic Storage. Project manager for acquisition of 27 self storage sites in Minnesota and Wisconsin. The project involved the performing Phase I environmental site assessments at all 27 sites; asbestos surveys at four sites, subsurface investigations of seven sites; preparation of a comprehensive environmental liability cost estimate; and agency negotiations with Minnesota Pollution Control Agency to obtain letters of "No Association Determination" for four of the 27 sites.

March to August 2005. Nature Conservancy. Mr. Fickerson managed the environmental due diligence of a former worker camp and precious metals mine in Tecopa, California. Recognized environmental conditions identified at the site were further evaluated by the implementation of a comprehensive trenching program. Total metals including cyanide, mercury, lead, and copper were identified in soil at concentrations that exceed hazardous waste criteria. Potential remedial scenarios were evaluated, a preliminary risk assessment was performed, and discussions with the client's legal counsel were conducted. The project team decided that the elevated metals concentrations could be managed in place, thus avoiding costly (in excess of \$1M) remediation, and allowing a conservation easement to be placed on this ecologically sensitive property.

August 2003. Teachers Insurance and Annuity Association. Performed a Phase I environmental site assessment of five multi-story office buildings comprising approximately 380,000 square-feet of commercial office space on approximately 15 acres of land located in San Diego, California. This project involved a site visit; interviews with the buildings tenants; historical, regulatory, and environmental database review; and preparation of a comprehensive report.

May 2003. PS Business Parks. Mr. Fickerson performed a Phase I environmental site assessment and managed a subsurface assessment of a business park containing 437,000 square-feet of commercial office/warehouse space on 25 acres in Santa Ana, California. An extensive historical review indicated that the site was formerly occupied by a sugar beet processing plant. The identified recognized environmental conditions were further evaluated by the implementation of a comprehensive soil boring program. Mr. Fickerson prepared a budget cost estimate and assisted the client in obtaining environmental insurance allowing the client to proceed with the purchase of property.

February to April 2003. Northrop/Vought Aircraft Corporation, Comprehensive Soil and Groundwater Assessment, Hawthorne, California. Assistant Project Manager for a comprehensive fence-line to fence-line soil assessment of an 80-acre aerospace manufacturing facility. The assessment involved the drilling and sampling of over 200 soil borings to assess the extent of soil impacted by halogenated solvents, petroleum hydrocarbons, and metals.

April 2002. FleetBoston Financial Group. Performed a Phase I environmental site assessment and environmental liability analysis of the Buena Park Mall and Buena Park Marketplace located in Buena Park, California. Combined the buildings totaled approximately 380,000 square-feet of commercial space on approximately 51 acres. This project involved visits and interviews with over 100 tenants; historical, regulatory, and environmental database review, and preparation of comprehensive report. At the conclusion of the project a comprehensive environmental liability analysis was performed to quantify potential future environmental costs.

March 2002. Confidential Client. Project manager responsible for a subsurface soil and groundwater assessment of a dry cleaning facility located in Marina Del Rey, California. Despite the presence of chlorinated solvents in groundwater at concentrations that exceed California's maximum contaminant levels, Mr. Fickerson was able to successfully demonstrate that the release was not a risk to human health or the environment and regulatory site closure was granted by the Los Angeles Regional Water Quality Control Board.

November 2001. Shamrock Logistics GP, LLC. Project manager and primary assessor responsible for the technical environmental liability cost evaluation of groundwater impacts associated with the acquisition of 14 tank farms, heating stations, and over 33 miles of connecting pipelines located throughout Southern California.

September 2001. Teachers Insurance Annuity Association. Prepared a phase I environmental site assessments and limited compliance assessment of a shopping center that contained over 270,000 square feet of retail space on 31 acres in San Diego, California. This project involved site visits; interviews with over 50 tenants; compliance documentation review and analysis; historical and, regulatory agency research, environmental database review, and preparation of comprehensive due diligence report.

March 2001. Air Liquide. Prepared phase I environmental site assessments of four compressed gas facilities and one compressed gas terminal located on the islands of Kauai, Maui, Hawaii, and Oahu, Hawaii. This project involved facility visits, historical and regulatory agency research, environmental database review, and preparation of site-specific due diligence reports.