

## DOCKETED

<b>Docket Number:</b>	13-AFC-01
<b>Project Title:</b>	Alamitos Energy Center
<b>TN #:</b>	206427-4
<b>Document Title:</b>	Alamitos Suppl.AFC Appendices 5.10C to 5.15A
<b>Description:</b>	Alamitos Energy Center Supplemental AFC Appendices 5.10C to 5.15A
<b>Filer:</b>	Cathy Hickman
<b>Organization:</b>	AES Southland Development, LLC
<b>Submitter Role:</b>	Applicant
<b>Submission Date:</b>	10/26/2015 2:37:15 PM
<b>Docketed Date:</b>	10/26/2015

**Appendix 5.10C**  
**Records of Conversation**

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**Call To:** Kenna Kirk and Susan Ahn at Long Beach Unified School District (detailed contact info below)

**Phone No.:** (562) 997-8000 (general)  
(562) 997- 8694 (Kenna Kirk)  
(562) 997- 7557 (Susan Ahn)

**Date:** 6/25/2013, 6/27/2013, 6/27/2013  
**Time:** 1:15pm, 10:20am, 10:45am, respectively

**Call From:** Beth Smoker

**Message Taken By:** Beth Smoker

**Subject:** School Information

**Project No.:** 424103.01.04.SE.AL

6/25/13 @ 1:15pm: Left voicemail for the LBUSD Research Department.

6/27/13 @ 10:20am: Spoke with Kenna Kirk from the LBUSD Research Department. She was able to give me information about projected enrollment, and directed me to the Facilities Department for the School Impact Fee questions (562-997-7550) and to the Secondary Middle School Office for the Capacity question (562-997-8115).

6/27/13 @ 10:45am: Spoke with Susan Ahn from Facilities. She was able to answer the School Impact Fee and Capacity questions. See below. Susan requested that LBUSD be notified once the AFC is made public.

### **1. Project Site School Districts and Schools:**

The area in which the AEC site is located is served by the Long Beach Unified School District, District 4. Students in the district (based on AEC site address) would attend Kettering Elementary, Rogers Middle School, and Wilson High School.

LBUSD District Map: <http://www.longbeach.gov/citymanager/redistricting/default.asp>

LBUSD School Finder: [http://www.lbusd.k12.ca.us/Schools/school\\_finder.cfm](http://www.lbusd.k12.ca.us/Schools/school_finder.cfm): Find your local schools by typing in your address (690 Studebaker)

### **2. Projected Enrollment (by grade for each school)**

Project enrollment is 80,446 students for the school district as a whole for school year 2013-2014. This information came from the Budget Department, but was translated to me from Kenna Kirk (Kirk, 2013).

### **3. Schools over capacity? If so, what is being done?**

In general, schools in CA are seeing a decline in enrollment. However, a number of LBUSD's schools were built fairly small and are currently at capacity. All of their High Schools are at capacity, but Elementary Schools are seeing a decline in enrollment. They do have some newer schools and a plan to continue building. In 2008 City of Long Beach passed a bond, Measure K, for a School Building Plan. Susan directed me to their website for more details on the program

(<http://www.lbusd.k12.ca.us/District/MeasureK/MeasureK.cfm>) (Ahn, 2013).

Information from website:

The first school built with Measure K funds was [Nelson Academy in Signal Hill](#) that opened in fall 2012. [McBride High School](#), the first of a number of small high schools being planned, is opening in fall 2013. Other

Measure K projects in the pre-construction or construction stages include [Newcomb Academy](#), [Roosevelt Elementary School](#) and the [new swimming pool at Cabrillo High School](#) (LBUSD, 2013).

Coming further down the line are the conversion of [Jordan Freshman Academy](#) to a small high school, building of a [small high school on the Browning site](#), and major renovation of [Jordan High School](#). (LBUSD, 2013).

**4. One-time fee assessed to new industrial construction within their jurisdiction?**

Yes, Commercial/industrial fee of 47 cents/sqft (effective 7/17/2012), will probably change in the near future (Ahn, 2013).

Kenna Kirk  
Supervising Research Office Technician  
1515 Hughes Way  
Long Beach, CA 90810  
(562) 997- 8694  
[KKirk@lbschools.net](mailto:KKirk@lbschools.net)

Susan Ahn  
Project Manager of Facilities  
1515 Hughes Way  
Long Beach, CA 90810  
(562) 997- 7557  
[SAhn@lbschools.net](mailto:SAhn@lbschools.net)

Ahn, Susan / Long Beach Unified School District, Project Manager of Facilities, 2013. Personal Communication with Beth Smoker/CH2M HILL. June 27.

Kirk, Kenna / Long Beach Unified School District, Supervising Research Office Technician, 2013. Personal Communication with Beth Smoker/CH2M HILL. June 27.

Long Beach Unified School District (LBUSD). 2013. School Building Plan: Measure K. <http://www.lbusd.k12.ca.us/District/MeasureK/MeasureK.cfm>. Accessed June 27.

**Call To:** Ron Miller, Executive Secretary, Los Angeles/Orange County Building Trades Council

**Phone No.:** 213-483-4222

**Date:** 6/24/2013

**Call From:** Beth Smoker

**Time:** 3:30pm

**Message Taken By:** Beth Smoker

**Subject:** Labor Union – workforce availability

**Project No.:** 424103.01.04.SE.AL

I spoke with Ron Miller who confirmed that the local Los Angeles/Orange County Building Trades Council could meet our demand for labor for the project based on the workforce details I provided him below:

Project duration: Q1 2016 – Q3 2027.

Peak workforce of approximately 450 occurring in the first half of 2018 for Construction, reducing down to a peak of approximately 240 for Construction in later years and an average of approximately 140.

There will be an average and peak workforce of approximately 45 and 55, respectively during demolition.

He also mentioned that our client should contact him soon to set up Labor Agreements.

Ron Miller

Executive Secretary Los Angeles/Orange County Building Trades Council

1626 Beverly Blvd

Los Angeles, CA 90026

Phone: 213-483-4222

RonMillerlaoc@sbcglobal.net

Miller, Ron / Los Angeles/Orange County Building Trades Council, Executive Secretary. 2013. Personal Communication with Beth Smoker/CH2M HILL. June 24.

**Call To:** Lisa Lopez, Chief of Staff, Long Beach Police Department

**Phone No.:** (562)570-7260 (general)  
562-570-7301 (Lisa Lopez)

**Date:** 6/25/2013, 6/27/13 (email)  
**Time:** 2:00pm, 5:43pm, respectively

**Call From:** Beth Smoker

**Message Taken By:** Beth Smoker

**Subject:** Law Enforcement Information

**Project No.:** 424103.01.04.SE.AL

6/25/13: I was transferred to the LBPD Media Relations department and spoke with Nancy who requested that I send an email with all of my questions (email= [LBPDMediaRelations@longbeach.gov](mailto:LBPDMediaRelations@longbeach.gov)). I sent an email with all relevant questions.

6/27/13: I received a response email from Lisa Lopez. Her answers to my questions are provided below (her actual email is attached).

#### Law Enforcement

1. Number of stations in the dept  
**Long Beach Police Department has four stations – Public Safety Building and three substations**
2. Address of the headquarter for the dept:  
Long Beach Police Department  
400 W. Broadway  
Long Beach, CA 90802
3. Which station serves the project site (project site: 690 N. Studebaker Rd, Long Beach CA 90803)  
**East Substation, 4800 Los Coyotes Diagonal, Long Beach, 90815**
4. How far is the station identified in #3 above from the project site?  
**Approximately 3.5 miles**
5. How many sworn full-time officers (police officers or sheriffs deputies) are there in total for the dept?  
**Budgeted sworn staffing is 819**
6. How many of these officers are at the station serving the project site?  
**East Division sworn staffing is 108**
7. What would be the response time to an emergency from the project site?  
**Officers respond to calls from the field. The Long Beach Police Department has an average response time to Priority One calls (emergency calls) of less than five minutes.**

#### Service Impacts

8. The project is expected to be under construction for 139 months/11.5 years from Q1 2016 to Q3 2027 with a peak workforce of 450 occurring in the first half of 2018, and reducing to an average of approximately 140 for the remainder of the project (there will be a few more peaks or workforce to about 240 laborers during

these later years as well). Does the department anticipate that this would impact their ability to continue to provide service to their service area?

No

9. If answer to #8 is yes, then what, if any, mitigation measures would the dept propose?

N/A

10. Once the project is operational there will be \_51\_ operational employees. Does the dept anticipate that this would impact its ability to continue to provide service to its service area?

No

11. If answer to #10 is yes, then what, if any, mitigation measures would the dept propose?

N/A

Commander Lisa Lopez  
Chief of Staff  
Long Beach Police Department  
400 West Broadway  
Long Beach, CA 90802  
Phone: 562-570-7301  
[Lisa.Lopez@longbeach.gov](mailto:Lisa.Lopez@longbeach.gov)

Lopez, Lisa / Long Beach Police Department, Chief of Staff. 2013. Personal Communication with Beth Smoker/CH2M HILL. June 27.

**Call To:** Deputy Fire Marshal David Zinnen, City of Long Beach

**Phone No.:** 562-570-2572

**Date:** 6/24/2013, 6/25/13, 7/2/13, 7/3/13, 7/12/13

**Call From:** Beth Smoker

**Time:** 11:10am, 1:40 pm, 12:15pm - 1:20pm -  
2:00pm, 1:15pm – 9:29am, respectively

**Message Taken By:** Beth Smoker

**Subject:** Fire Department Information

**Project No.:** 424103.01.04.SE.AL

6/24/13: Left Voicemail. I believe the given contact number (562-570-2579) above goes to the Deputy Chief's office.

6/25/13: Called, no answer. Did not leave another voicemail. Called the main office general number (562) 570-2500 and found out that Mike DuRee is on vacation this week, returning next week. I will call back next Monday 7/1/13.

7/2/13 @ 12:15: Called the phone number provided for Mike DuRee, but was not receiving the correct mailbox. Called the main office and was given the direct phone number for the office of the Fire Chief (562-570-2565). His secretary, Beverley Crawford, is at lunch right now. I will call back after 1pm.

7/2/13 @ 1:20: Left Voicemail for Fire Chief.

7/2/13 @ 2:00pm: Beverley (Fire Chief Secretary) returned my call, asking for some additional information. Chief DuRee is in a meeting, but she will have him call me back today or tomorrow morning.

7/3/13 @1:10pm: Called Beverly again who informed me that Chief DuRee had passed my request to Deputy Fire Marshal David Zinnen. David called be about 10 minutes later. We decided it would be easiest for him to confirm and update all of Chief DuRee's past responses via email. I sent him an email with all of our questions and Chief DuRee's June 2012 responses.

7/12/13 @ 9:29am David Zinnen responded to my email. His answers are copy/pasted below.

Most questions below were initially answered by Fire Chief DuRee in a Conference Call between Jerry Salamy/CH2MHILL and the City of Long Beach point of contacts on 6/25/12. Deputy Fire Marshal David Zinnen confirmed/updated the Fire Chief's responses on 7/12/13.

## **Fire Protection**

**Zinnen, David / Long Beach Fire Department, Fire Chief and Deputy Fire Marshall. 2013. Personal Communication with Beth Smoker/CH2M HILL. July 12.**

**Mike DuRee**  
**Fire Chief**  
**3205 Lakewood Boulevard**  
**Long Beach, CA 90808**  
**562-570-2565**  
[Michael.DuRee@longbeach.gov](mailto:Michael.DuRee@longbeach.gov)

**David Zinnen**  
**Deputy Fire Marshal**  
**3205 Lakewood Boulevard**  
**Long Beach, CA 90808**  
**562-570-2572**  
[David.Zinnen@longbeach.gov](mailto:David.Zinnen@longbeach.gov)

Hi David,

Thank you for taking the time to answer the following questions. We are working on an environmental document for the CEC that requires gathering the following information from the local fire department for the project.

The **green** indicates answers that were provided by Chief DuRee back in June of 2012. There are a few new questions that are highlighted in yellow. Please confirm Chief DuRee's answers, and update as necessary. [\[David Zinnen's answers are in blue below\]](#)

### **Fire Protection**

1. How many stations are there?

**The Long Beach Fire Department has 23 Stations, including two Fireboat Stations and the Airport Station. Stations are spread across the 52 square miles of the City and broken into specific geographic response zones. The stations are all within 2 miles of each other to create overlapping coverage.**

2. Which one is the Headquarter?

**Fire Headquarters is located at 3205 Lakewood Blvd. Fire Headquarters is a stand-alone facility and does not have an operational company that responds from this location.**

3. Which station serves the project site? And 4) How far is it from the project site (project site = 690 N. Studebaker Rd, Long Beach, CA 90803)?

**The primary responder to this facility is Fire Station 22, located at 6340 Atherton Street. Fire station 22 is approximately one mile from the AES Facility. There are a total of 5 Firefighters assigned to this station daily.**

4. How many personnel/staff and equipment (fire engines, water trucks, etc) are there in the dept? Please note that they may give you a number for volunteer firefighters. Make sure to note this down. We'll include it in the ROC and the text.

**Currently the Long Beach Fire Department deploys 17 Engine Companies, 4 Truck Companies, 8 Paramedic Rescue ambulances, 5 Basic Life Support ambulances, 3 Airport Rescue Firefighting apparatus, 1 Urban Search and Rescue (CATF type 1) unit, 1 Hazardous Materials (Type 1) unit, two 86ft fireboats, four 34ft rescue boats, 3 Beach Lifeguard patrol units, 3 Battalion Chief Officers and apparatus daily. Each Engine, Truck, and specialty unit is staffed with 4 Firefighters broken down as follows: one Captain, one Engineer, one Firefighter and one Firefighter/Paramedic. Rescue ambulances are staffed with two Firefighter Paramedics, and BLS ambulances are staffed with two EMT ambulance operators. Beach lifeguard units are staffed with one Marine Safety Officer, and the Airport units are staffed with one Engineer each and one Firefighter and one Captain on a quick response vehicle.**

5. How many of the fire fighters are at the station serving the project site?

**There are a total of 5 Firefighters assigned to Station 22 daily.**

6. What would be the response time to an emergency from the project site from this station?

**Citywide average response time for first arriving unit is 5:33. Fire Station 22 average response time in district is 4:58.**

7. How many of the fire fighters are trained medics? How many of the ones stationed at the nearest station to the project site are trained medics?

**There are 170 nationally accredited and State Certified Paramedics on the Long Beach Fire Department. Currently, there are 96 full time active Paramedics in the program. The remainders have kept certification but are not active within the ALS program (Engineers and Captains). Fire Station 22 is a Paramedic Assessment Engine and has one Paramedic assigned to the apparatus daily with full scope of practice under Los Angeles County Assessment Engine guidelines. All Firefighters on the long Beach Fire Department are certified EMT's.**

8. In case of major structural fire which station can come to the aid of the station near the project site? How far is this station? How many personnel/staff and equipment does it have?

[New question, not answered by Chief DuRee]

**Multiple stations (14, 4, 22, 8, 17's). Based on the character of the emergency, the initial alarm response would include 3 Engines, a Truck, a Paramedic Rescue and a Battalion Chief. All of this would come from Long Beach Fire and are located within a few miles of the facility.**

9. Does the dept have a mutual aid agreement with another fire dept? If so, which one and what does the aid include?

**Yes. Mutual and Automatic aid agreements have been in place with Los Angeles County Fire Department and the Orange County Fire Authority for over 30 years. The most likely scenario for use of mutual aid to this facility would be with Orange County Fire Authority and would draw resources from Orange County Stations 48, 17 and 42.**

10. The project is expected to be under construction for 139 months/11.5 years from Q1 2016 to Q3 2027 with a peak workforce of 450 occurring in the first half of 2018, and reducing to an average of approximately 140 for the remainder of the project (there will be a few more peaks or workforce to about 240 laborers during these later years as well). Does the department anticipate that this would impact their ability to continue to provide service to their service area?

[New question, not answered by Chief DuRee]

No

11. If answer to #10 is yes, then please ask them what, if any, mitigation measures they would propose.

12. Once the project is operational there will be 51 operational employees. Does the dept anticipate that this would impact its ability to continue to provide service to its service area?

[New question, not answered by Chief DuRee]

No

13. If answer to #12 is yes, then please ask them what, if any, mitigation measures they would propose.

### **Hospitals**

1. Nearest hospital to the project site.

**From the AES facility, Los Alamitos Hospital and Long Beach Community Hospital would be the closest receiving facilities. There are two trauma centers in Long Beach. Saint Mary Medical Center and Long Beach Memorial Medical Center are Level 1 trauma centers. Both trauma centers are less than 6 miles from the facility. There are a total of 6 hospitals within the City of Long Beach that offer Emergency room services and accept patients from the Fire Department ALS and BLS system.**

2. Identify any other hospitals that are likely to serve the project site by asking either the County fire department or the County Sheriff's department or the first hospital you talk to.

**All hospitals within the system in Long Beach are available to be used. Patient destination is predicated on nature of illness or injury and closest receiving facility criteria under Los Angeles County pre-hospital care guidelines.**

3. Who provides ambulance services?

**Long Beach Fire Department provides both ALS and BLS ambulance service.**

4. What is the response time from the project site to the nearest hospital?

[New question, not answered by Chief DuRee]

Within 15 minutes based on traffic and the need for a specialty hospital such as a Trauma Center

### **Hazardous Materials**

1. Who handles hazardous materials? If the fire department, then what is the location of the station that houses the hazmat team?

**All Firefighters and Stations are certified as HAI-FRO and are capable of managing, initially, a hazardous materials related incident. Fire Station 24 and Fire Station 19 house specialized apparatus for hazardous materials response and the personnel assigned to these stations are certified as Hazardous Materials Technicians. These resources can be deployed citywide when requested and under certain circumstances are available to respond to a regional request.**

2. What would be the response time to an emergency from the project site from this station?

**Citywide average response time for first arriving unit is 5:33.**

3. Is the hazmat team capable of handling any hazardous material?

[New question, not answered by Chief DuRee]

Yes

4. How are CUPA duties divided between the County of Los Angeles Fire Department-Health Hazardous Materials Division and the City of Long Beach Fire Department?

**CUPA responsibilities fall solely with the City of Long Beach. The County of Los Angeles Fire Department and Los Angeles County Health Department do not have any direct connection to Long Beach CUPA.**

5. Do any other entities hold CUPA responsibilities (Le., County of Los Angeles Public Works administer underground storage tank permits)?

**The City of Long Beach Health Department is the Cities CUPA (CONTACT?). The Long Beach Fire Department is the participating agency to the CUPA. The Fire Department issues all above ground and underground tank permits and administers the business emergency plan program. The Health Department administers the hazardous waste generator and CalARP program (California Accidental Release Program).**

6. Who administers SPCC plans?

**Spill Prevention, Control and Countermeasure (SPCC) plans are administered jointly between Long Beach Fire and Long Beach Health Departments.**

7. Does the City require a hazardous materials business plan and/or risk management plan?

**Yes, in addition to a business emergency plan.**

Are there any **specific City Codes** that require HMBPs or RMPs, or does the uniform fire code just adopt state requirements?

[New question, not answered by Chief DuRee]

Article 6.95 of the CA Health and Safety Code will require a HMBP and the CA Fire Code will require a HMMP. The CA Fire adopts the International Fire Code with State Amendments.

8. Are there City municipal code sections related to storage, handling, transport, or generation of hazardous materials?

**Yes, Long Beach Municipal Code Chapter 18.48 sections 18.48.240 and 18.18.580.** Please confirm these are correct.

9. Are there sites in the vicinity of the AES Alamos site that store or produce hazardous materials of large enough quantities or of a type that require notification? Where are they located?

**In general proximity to the AES plant there are a number of open top, floating roof storage tanks that are capable of storing hazardous materials. These storage tanks are located within one quarter mile of the facility.**

10. Who can we contact with follow up questions related to hazardous materials emergency response?

**CUPA related questions can be posed to either Deputy Fire Marshal David Zinnen or Hazardous Materials Team program Manager Battalion Chief Steve Raganold.**



**Appendix 5.11A**  
**Soil Loss Estimates**

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**AEC Supplemental AFC Appendix 5.11A**

**Estimate of Total Suspended Particulates (TSP) Emitted from Grading and Wind Erosion**

*Alamitos Energy Center*

<b>Emission Source</b>	<b>Acreage</b>	<b>Duration (months)</b>	<b>Unmitigated TSP (tons)</b>	<b>Mitigated TSP (tons)</b>
<b>Grading Dust:</b>				
AGS Unit 7 Demolition	3.3	6	4.40	1.54
AES Construction	21.1	2	9.28	3.25
Off-site Sewer Line	0.5	1	0.10	0.04
<b>Wind Blown Dust:</b>				
AGS Unit 7 Demolition	3.3	0	0.13	0.04
AES Construction	21.1	48	6.52	2.28
Off-site Sewer Line	4.0	1	0.13	0.04
<b>Estimated Total</b>			<b>20.56</b>	<b>7.20</b>

**Notes:**

Wind blown dust estimates are based on assumption of 50 percent exposed soils during construction, and 20 percent exposed soils for demolition.

**Project Assumptions:**

- Of the entire 71.1-acre property, only the AGS Demolition and AEC Construction sites will be graded (approximately 21.1 acres total, as these areas overlap).
- The construction access roadway through the former 8.81-acre tank farm that is already demolished will be gravelled only and will require no grading.
- Assumes only 50 percent of the AEC site is exposed during construction and only 20 percent of AGS is exposed during demolition.
- The demolition will occur for 6 months. The soil loss estimate only includes the demolition of the structures and their foundations.
- The onsite laydown areas are currently paved, and will remain so for the duration of the project, so soil losses are considered to be negligible.

**Data Sources:**

<sup>a</sup>Emission Factor Source: Jones and Stokes Associates, 2007. URBEMIS2007, available at <http://www.urbemis.com/software/download.html>.

<sup>b</sup> Conversion Factor Source: Southern California Air Quality Management District (SCAQMD). 1993. CEQA Guidelines, Estimating Emissions from Wind Erosion of Storage Piles (Table A9-9-E)

<sup>c</sup> Emission Control Efficiency Source: SCAQMD. 1993. CEQA Guidelines (Table 11-4)

**AEC Supplemental AFC Appendix 5.11A**

**Estimate of Soil Loss by Water Erosion Using Revised Universal Soil Loss Equation (RUSLE2)**

*Alamitos Energy Center*

Feature (acreage)	Activity	Duration (months)	Estimates Using Revised Universal Soil Loss Equation*			
			Soil Loss (tons) without BMPs	Soil Loss (tons) with BMPs	Soil Loss (tons/yr) No Project	
<b>AGS Demolition</b> (17.2 acres total)	Demolition					
		Unit 7	6	0.27	0.01	0.003
		TOTAL Demolition	6	0.3	0.01	0.003
<b>AEC Construction</b> (21.1 acres total)	Grading (all areas)	2	6.0	0.04	0.103	
	Construction					
		CCGT Power Block	33	14.1	0.40	0.062
		SCGT Power Block	16	4.6	0.13	0.041
	TOTAL Construction	51	18.7	0.53	0.103	
<b>Off-site Sewer Line</b> (8.0 acres for construction; 0.46 acres for trench)	Grading	1	0.06	0.01	0.002	
	Construction	1	0.27	0.01	---	
<b>Project Soil Loss Estimates All activities listed above</b>		<b>51</b>	<b>25.2</b>	<b>0.59</b>	<b>0.21</b>	

**Notes:**

\*Soil losses (tons/acre/year) are estimated using RUSLE2 software available online [[http://fargo.nserl.purdue.edu/rusle2\\_dataweb/RUSLE2\\_Index.htm](http://fargo.nserl.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm)].

- The soil characteristics were estimated using the Hanford sandy loam profile, which had a less conservative estimate of erosion-potential than Sorrento loam
- Soil loss (R-factors) were estimated using 2-year, 6-hour point precipitation frequency amount for the nearest National Weather Service station to the AEC site [online at [http://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html?bkmrk=ca](http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=ca)].
- Estimates of actual soil losses use the RUSLE2 soil loss times the duration and the affected area. The No Project Alternative estimate does not have a specific duration so loss is given as tons/year.

**Other Project Assumptions as follows:**

- Of the entire 71.1-acre property, only the AGS Demolition and AEC Construction sites will be graded (approximately 21.1 acres total, as these areas overlap).
- The construction access roadway through the former 8.81-acre tank farm that is already demolished will be gravelled only and will require no grading.
- Assumes only 50 percent of the AEC site is exposed during construction and only 20 percent of AGS is exposed during demolition.
- The AGS demolition will occur in phases, and will take a total of 80 months to complete. The soil loss estimate only includes the demolition of the structures to their foundations.
- The onsite laydown areas are currently paved, and will remain so for the duration of the project, so soil losses are considered to be negligible.

**RUSLE2 Assumptions as follows:**

100-ft slope length. Estimated soil unit slope is the midpoint of the minimum and maximum of the unit slope class.

**Construction/Demolition** soil losses assume the following inputs: Management - Bare ground; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.

**Grading** soil losses assume the following inputs: Management - Bare ground/rough surface; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.

**Construction with BMP** soil losses assume the following inputs: Management - Silt fence; Contouring - Perfect contouring, no row grade; Diversion/terracing - None; Strips and Barriers - 2 fences, 1 at end of RUSLE slope.

**No Project** soil losses assume the following inputs: Management - Dense grass, not harvested; Contouring - None, rows up and down hill; Diversion/terracing - None; Strips and Barriers - None.

**Appendix 5.12A**  
**Heavy Haul Route**

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### Long Beach to Alamitos

Harbor Plaza to Pico	Good corner no obstructions Overpasses on Pico are 17' +
Pico to 10 <sup>th</sup>	Transition, no corner Overpass is 17'
10 <sup>th</sup> changes to 9 <sup>th</sup>	
9 <sup>th</sup> to Santa Fe	Make r/h turn onto wrong side to avoid traffic signal.
Santa Fe to Anaheim	Make r/h turn onto wrong side to avoid traffic signal.
Anaheim to Magnolia	Make r/h turn from far left to avoid pedestrian crossing signal on right corner.
Magnolia to Ocean	Good corner. zig zag lights on Ocean
Ocean to Alamitos	Make turn from far right lane of Ocean
Alamitos to Anaheim	Have utility crews rotate lights on Anaheim
Anaheim to PCH	Make wide turn to avoid lights
PCH to 2 <sup>nd</sup> Street	Good corner
2 <sup>nd</sup> Street to Studebaker	Make l/h turn from far right lane

## Vanco rail siding to Alamitos

Anaheim to Magnolia	Make r/h turn from far left to avoid pedestrian crossing signal on right corner.
Magnolia to Ocean	Good corner. zig zag lights on Ocean
Ocean to Alamitos	Make turn from far right lane of Ocean
Alamitos to Anaheim	Have utility crews rotate lights on Anaheim
Anaheim to PCH	Make wide turn to avoid lights
PCH to 2 <sup>nd</sup> Street	Good corner
2 <sup>nd</sup> Street to Studebaker	Make l/h turn from far right lane

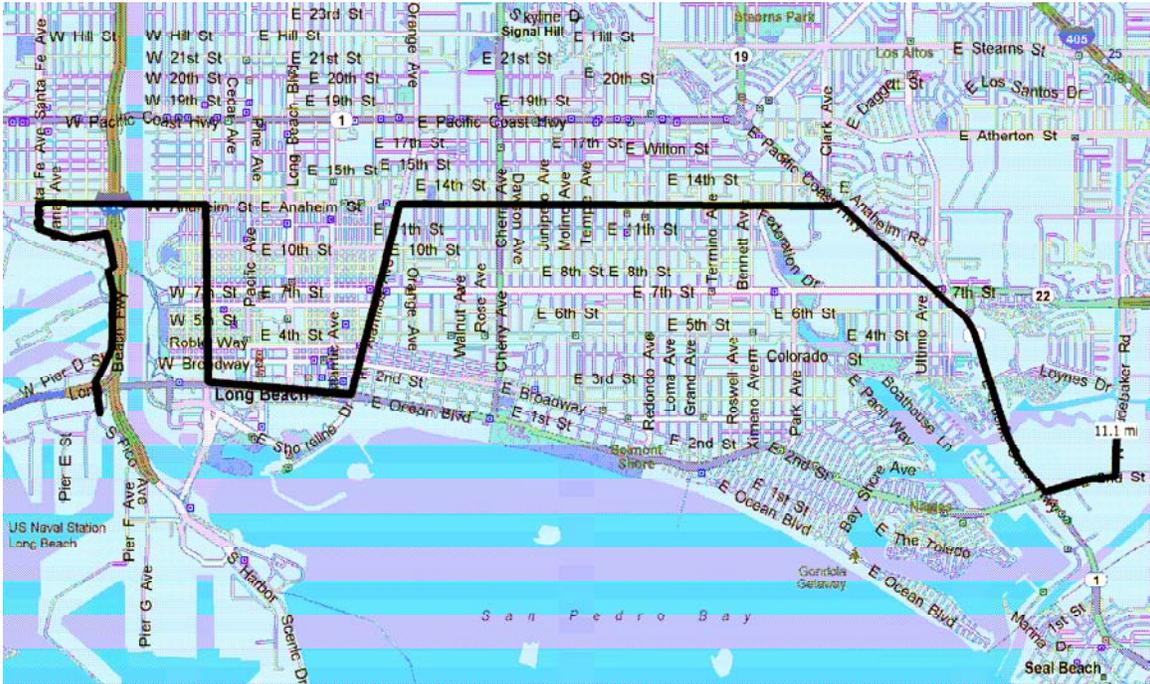
## Summary

The rail siding at Vanco is on Anaheim Street just West of the Long beach area so the same beginning at Anaheim Street.

## Long Beach to Redondo Beach

Harbor Plaza to Pico	Good corner no obstructions Overpasses on Pico are 17' +
Pico to 10 <sup>th</sup>	Transition, no corner Overpass is 17'
10 <sup>th</sup> changes to 9 <sup>th</sup>	
9 <sup>th</sup> to Santa Fe	Make r/h turn onto wrong side to avoid traffic signal.
Santa Fe to PCH	Make l/h turn onto wrong side to avoid traffic signal.

## Long Beach to Alamitos



Pico Ave.



10<sup>th</sup>/9<sup>th</sup>



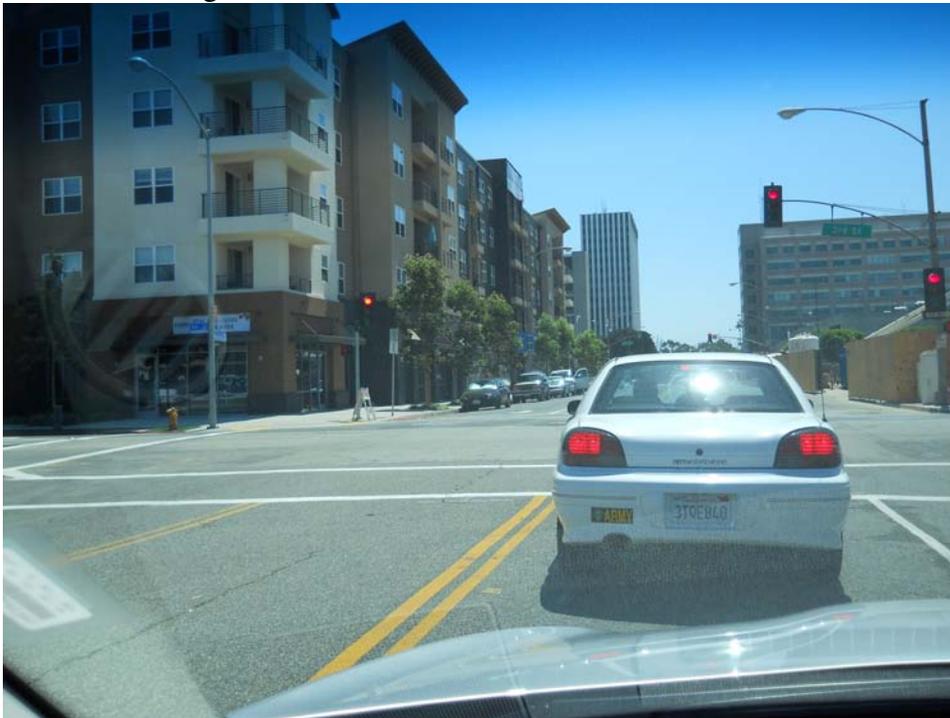
10<sup>th</sup>/9<sup>th</sup> to Santa Fe



Santa Fe to Anaheim



Anaheim to Magnolia



Magnolia to Ocean



Ocean to Alamitos



Alamitos to Anaheim



Anaheim to PCH Hwy 1



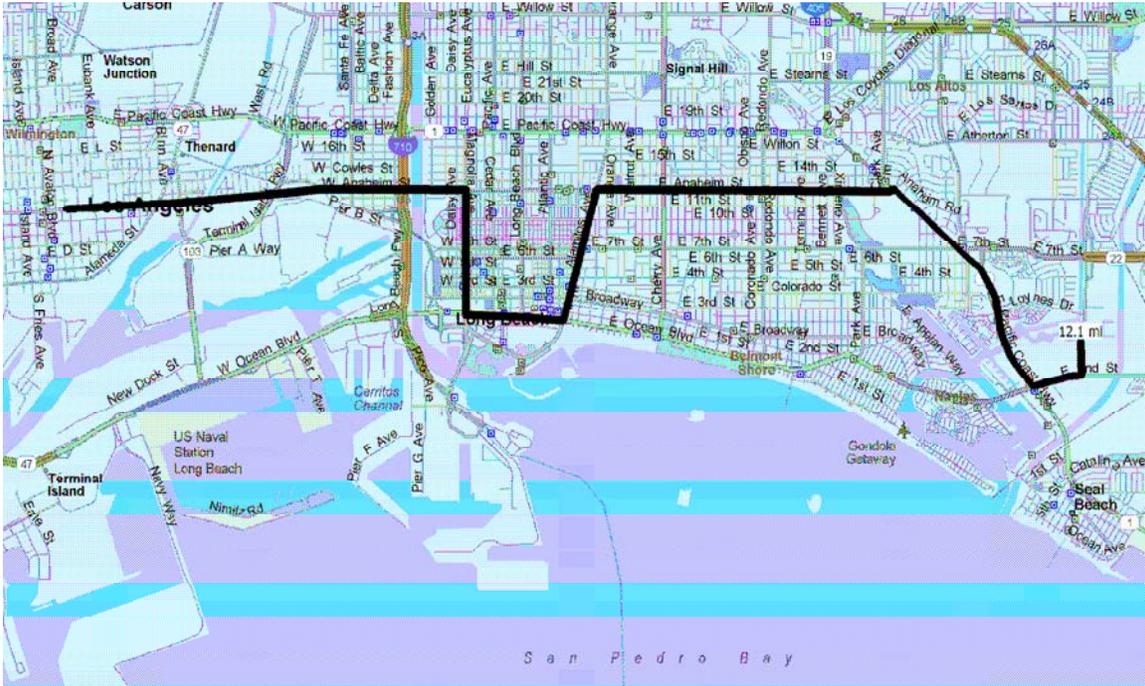
PCH to 2<sup>nd</sup> Street



2<sup>nd</sup> Street to Studebaker



## VANCO Rail Siding to Alamitos



Anaheim Street



Anaheim to Magnolia



Magnolia to Ocean



Ocean to Alamitos



Alamitos to Anaheim



Anaheim to PCH Hwy 1



PCH to 2<sup>nd</sup> Street



2<sup>nd</sup> Street to Studebaker





**Appendix 5.13A**  
**FHWA Rating Sheets**

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Visual Resource Survey:		AES - AEC		Existing Conditions	
KOP Location: Channel View Park/Long Beach Bikeway Route 10		Viewpoint: KOP 1			
Landscape Unit: NA		Date: Oct-15			
Viewpoint Description (Figure Caption):		View to the southeast from Channel View Park/Long Beach Bikeway Route 10. The tallest portions of the existing AGS site (stacks and scaffolding) are visible across the entire span of the view. Located just west of Los Cerritos Channel, this view also represents views from the adjacent single-family residential development as well as an elementary school.			
Photo Orientation: SE					
Viewer Position: _____ Inferior <input checked="" type="checkbox"/> Level    _____ Superior					
View	Notes				
Foreground (0 - 1/2 mile)	Existing infrastructure associated with the Los Cerritos Channel, roadway, transmission structures, and existing AGS site combine to create a highly industrial landscape. The existing AGS project site is located beyond Los Cerritos Channel, immediately across North Studebaker Road. The existing AGS stacks, coiled scaffolding and pipes, combined with several existing transmission lines and structures contribute to the overall industrial nature in the backdrop of the view.				
Middleground (1/2 - 4 miles)	In the right portion of the view, visible AGS stacks are visible above the treetops.				
Background (> 4 miles)	N/A				
Vividness					
Feature	Score*	Notes			
Landform	3	Flat plane of urban development with a thin linear strip of waterway breaking up the landmass.			
Vegetation	4.5	Distinct linear line of deciduous trees and few palms of similar height and form are visible along Studebaker Road in the foreground view. Dense vegetation along this corridor obscures the lower portions of the AGS structures. Round vegetative forms parallel the top portions of riprap along Los Cerritos Channel. A well-maintained green belt is visible in the immediate foreground view within Channel View Park.			
Water Feature	3.5	Thin linear forms of Los Cerritos Channel add and element of visual interest to the industrial view.			
Human-Made	4.5	A mix of horizontal features including fencing, riprap, transmission lines and roadway infrastructure create layered bands across the view which reinforce the urban landscape. Vertical elements including fence posts, transmission structures, and light poles are evenly spaced in an orderly pattern throughout the view. Prominent existing AGS stacks, coiled scaffolding and pipes are visible above the treeline and are distinct elements in the view.			
Overall	3.9	This view is occupied entirely by human-made structures with the most vivid features consisting of the existing AGS power plant which add distinct elements of visual interest to the landscape.			
Intactness					

Visual Resource Survey:		AES - AEC		With Project	
KOP Location: Channel View Park/Long Beach Bikeway Route 10		Viewpoint: KOP 1			
Landscape Unit: NA		Date: Oct-15			
Viewpoint Description (Figure Caption):		View from KOP 1 with AEC constructed. The AEC facilities will not be visible.			
Photo Orientation: SE					
Viewer Position: _____ Inferior <input checked="" type="checkbox"/> Level    _____ Superior					
View	Notes				
Foreground (0 - 1/2 mile)	The existing AGS stacks and scaffold-covered boilers will remain, but the AEC structures will not be visible.				
Middleground (1/2 - 4 miles)	Same				
Background (> 4 miles)	Same				
Vividness					
Feature	Score*	Notes			
Landform	3	No change			
Vegetation	4.5	No change			
Water Feature	3.5	No change			
Human-Made	4.5	No change.			
Overall	3.9	Because the AEC structures will not be visible, there will be no change in the overall vividness of the view.			
Intactness					

Overall	<b>3</b>	In this urbanized landscape, the vertical forms (including stacks, transmission structures, and light poles) and horizontal forms (fencing, riprap, transmission lines, roadway) extend from the foreground to middleground cluttering the view. The existing AGS stacks are sporadically spaced in the view with no apparent order. Human-made features are visible along the horizon as well as above the horizon spanning the entire view creating a moderately low level of intactness.
<b>Unity</b>		
Overall	<b>3.5</b>	The overall view is typical of an industrial zone. Horizontal and vertical human-made elements create a coherent composition consistent with a highly urbanized area.
<b>Overall Visual Quality Score</b>	<b>3.5</b>	Moderately Low

\*Score Key:

1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Overall	<b>3</b>	No change.
<b>Unity</b>		
Overall	<b>3.5</b>	No change.
<b>Overall Visual Quality Score</b>	<b>3.5</b>	Moderately Low

\*Score Key:

1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Visual Resource Survey:		AES - AEC	Existing Conditions
KOP Location:	University Park Estates	Viewpoint: <b>KOP 2</b>	
Landscape Unit:	NA	Date: Oct-15	
Viewpoint Description (Figure Caption):	View to the east from the single-family residential development of University Park Estates located just west of Los Cerritos Channel bound between Seventh Street and Lyons Drive. Prominent views of the existing AGS power plant stacks extend above rooftops in the immediate center foreground view.		
Photo Orientation:	E		
Viewer Position:	_____ Inferior <u>  X  </u> Level    _____ Superior		
View	Notes		
Foreground (0 - 1/2 mile)	The foreground is occupied by a single-family residential neighborhood, behind it in the far-foreground, stack and boilers that are apart of the AGS can ben seen.		
Middleground (1/2 - 4 miles)	N/A		
Background (> 4 miles)	N/A		
Vividness			
Feature	Score*	Notes	
Landform	3	Flat, horizontal plain.	
Vegetation	4	Several well-established deciduous trees and residential landscaping are visible at varied heights and forms across the entire foreground. Existing AGS elements are partially screened to residences in the neighborhood since the trees provide a vegetative buffer which reaches above the rooftops.	
Water Feature	N/A		
Human-Made	4	The AGS power plant stands out as a relatively unique and dominant human-made feature. The whitewashed stacks skyline above the residences as well as the visible vapor plume create a sharp contrast in the view. The scaffolding and pipes on the boilers as well as the transmission lines and structures clutter the view.	
Overall	3.7	This view is occupied entirely by human-made structures with predominant views of the AGS from within the closest residential pocket of development. The prominence of the existing AGS ACC and stacks add a high-level of industrial elements to the residential views which results in a moderate degree of vividness.	
Intactness			
Overall	2.5	The visual pattern of residential development sharply contrasts with the visually encroaching vertical and blocky elements of the AGS stacks and boiler, creating a low level of intactness in the view.	
Unity			

Visual Resource Survey:		AES - AEC	With Project
KOP Location:	University Park Estates	Viewpoint: <b>KOP 2</b>	
Landscape Unit:	NA	Date: Oct-15	
Viewpoint Description (Figure Caption):	View from KOP 2 with the AEC constructed. Two new stacks are partially visible above the rooftops in the right-portion of the view and a small area of solid bulky forms is detectable through existing AGS infrastructure and vegetative screening in the left portion of the view.		
Photo Orientation:	E		
Viewer Position:	_____ Inferior <u>  X  </u> Level    _____ Superior		
View	Notes		
Foreground (0 - 1/2 mile)	New AEC features would be constructed in the far-foreground. The tops of AEC stacks are visible above the rooftops in the right side of the view.		
Middleground (1/2 - 4 miles)	Same		
Background (> 4 miles)	Same		
Vividness			
Feature	Score*	Notes	
Landform	3	No change	
Vegetation	4	No change	
Water Feature	N/A		
Human-Made	4	Addition of tall AEC stacks and associated structures have a negligible impact on the degree to which human-made features contribute to the vividness of the view.	
Overall	3.7	The view continues to have a moderately low level of vividness.	
Intactness			
Overall	2.3	The presence of the two tips of the AEC stacks in the right side of the view results in a small decrease in the views level of intactness.	
Unity			

Overall	<b>3</b>	The overall view is one within a single-family residential development with a focal point in the center-left side of the view dominated by towering features of the existing AGS power plant.
<b>Overall Visual Quality Score</b>	<b>3.1</b>	Moderately Low

\*Score Key:  
1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Overall	<b>2.9</b>	Addition of the two tips over the rooftops in the right side of the view brings about a minor decrease in the visual cohesion.
<b>Overall Visual Quality Score</b>	<b>3.0</b>	Moderately Low

\*Score Key:  
1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Visual Resource Survey:		AES - AEC	Existing Conditions
KOP Location: <b>Marine Stadium Park</b>		Viewpoint: <b>KOP 3</b>	
Landscape Unit: NA		Date: Oct-15	
Viewpoint Description (Figure Caption):		View from within Alamitos Bay at the easternmost edge of Marine Stadium Park. The existing AGS stacks are partially visible through breaks in structures in the center and right side of the view. Both AGS and Los Angeles Department of Water and Power plants anchor the backdrop of the view and reinforce the industrial nature of the landscape.	
Photo Orientation: NE			
Viewer Position: _____ Inferior <u>  X  </u> Level    _____ Superior			
View	Notes		
Foreground (0 - 1/2 mile)	The foreground includes maritime features in the view with the Pacific Coast Highway bridge over the Los Cerritos Channel beyond. Development of residences, commercial business and recreational centers (Long Beach Rowing Center) flank the channelized waterways.		
Middleground (1/2 - 4 miles)	The middleground includes partially obscured existing AGS and LADWP power plants which for the most part span across the entire view.		
Background (> 4 miles)	N/A		
Vividness			
Feature	Score*	Notes	
Landform	3	Flat tidal plain surrounded by interweaving channelized waterways flanked by residential, commercial, and recreational development.	
Vegetation	3.5	Variety of deciduous and evergreen (palm) trees visible throughout the view, varying in height and forms. Very little other vegetation is visible within the urban landscape.	
Water Feature	6	The curvilinear Los Cerritos Channel is the dominant feature in the foreground view which includes the convergence of the inlet empties with Alamitos Bay.	
Human-Made	3.5	Beyond the channel, all visible, non-vegetative features are human-made. The human-made features, especially the stacks, associated with the AGS and LADWP power plants appear as particularly vivid features above the horizon of the view.	
Overall	4.0	While the visible land space surrounding the channel is a mix of commercial and industrial uses, beyond is a highly dense industrial landscape which results in a moderate degree of vividness.	
Intactness			

Visual Resource Survey:		AES - AEC	With Project
KOP Location: <b>Marine Stadium Park</b>		Viewpoint: <b>KOP 3</b>	
Landscape Unit: NA		Date: Oct-15	
Viewpoint Description (Figure Caption):		View from KOP 3 with the AEC constructed. Two of the six AEC stacks and associated HRSG units are visible in the center portion of the view.	
Photo Orientation: NE			
Viewer Position: _____ Inferior <u>  X  </u> Level    _____ Superior			
View	Notes		
Foreground (0 - 1/2 mile)	No change		
Middleground (1/2 - 4 miles)	New AEC features (stacks, HRSG, ACC unit) would be added to the existing AGS structures creating an asymmetric design pattern which appears orderly in the far-middleground view.		
Background (> 4 miles)	Same		
Vividness			
Feature	Score*	Notes	
Landform	3	No change	
Vegetation	3.5	No change	
Water Feature	6	No change	
Human-Made	4	Addition of new AEC structures, though lower and bulkier than AGS forms, slightly increases the vividness of human-made features and overall presence of power generation elements in the view.	
Overall	4.1	This relatively open view across the bay up Los Cerritos Channel maintains an average degree of vividness despite the incremental increase in the existing view's prominent features with the addition of new AEC structures.	
Intactness			

Overall	<b>3.5</b>	The channel and associated mooring structures and buoys that occupy the immediate foreground reinforce the unique coastal character. The existing AGS structures are limited to the middleground. Distant vertical forms including trees, light poles, AGS and LADWP stacks reinforce the vertical and horizontal elements contributing to the repetitive vertical features across the view.
<b>Unity</b>		
Overall	<b>3.5</b>	The natural channelized areas are disrupted sharply by relatively large energy-generating facilities in the background. Vertical elements (stacks) span across the entire view reinforcing the industrial nature of the landscape creating a moderately low level of visual unity.
<b>Overall Visual Quality Score</b>	<b>3.7</b>	Moderately Low

\*Score Key:  
1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Overall	<b>3</b>	The six AEC stacks (in varying scale and height) are added to the six existing AGS stacks and are oriented in no apparent pattern increasing the clutter in the view. The impact of the bulky ACC form and lower stacks fill in areas of what was previously open sky resulting in an incremental degree of change with a moderately low level of intactness.
<b>Unity</b>		
Overall	<b>4</b>	The presence of new AEC stacks and HRSG units create a horizontal pattern across the middleground that reinforces the visual unity of the view by causing the industrial presence to have a more streamlined and slightly more cohesive profile in the landscape.
<b>Overall Visual Quality Score</b>	<b>3.7</b>	Moderately Low

\*Score Key:  
1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Visual Resource Survey:		AES - AEC		Existing Conditions	
KOP Location: Loynes Drive		Viewpoint: KOP 4			
Landscape Unit: NA		Date: Oct-15			
Viewpoint Description (Figure Caption):		View to the east from the bridge over Los Cerritos Channel along Loynes Drive. Both existing AGS and Los Angeles Department of Water and Power plants dominate the panoramic view reinforcing the character of this view as a zone of power generation.			
Photo Orientation: E					
Viewer Position: _____ Inferior <u>  X  </u> Level    _____ Superior					
View	Notes				
Foreground (0 - 1/2 mile)	The foreground includes existing infrastructure associated with the Los Cerritos Channel, roadway, transmission structures, and existing AGS which combine to create a highly industrial landscape. The existing AGS is located beyond Los Cerritos Channel, immediately across North Studebaker Road. The existing AGS stacks, coiled scaffolding and pipes, combined with several existing transmission lines and structures reinforce the existing character of this view as a zone for power generation.				
Middleground (1/2 - 4 miles)	The middleground includes partially obscured existing LADWP power plants stacks and scaffolding which for the most part span across the entire view.				
Background (> 4 miles)	N/A				
Vividness					
Feature	Score*	Notes			
Landform	3	Flat plain of urban development with a thin linear strip of waterway breaking up the landmass.			
Vegetation	3.5	Pockets of deciduous trees with few palms of variable heights and forms are visible along Studebaker Road in the foreground view. A denser hedge along this corridor obscures the lower portions of the existing AGS structures in the center-right portion of the view. Larger deciduous trees obscure larger areas of existing AGS infrastructure in the left edge of the view.			
Water Feature	3.5	Thin linear form of Los Cerritos Channel adds an element of visual interest in the left portion of the view.			
Human-Made	4	Beyond the channel, all visible, non-vegetative features are human-made. The human-made features, especially the stacks, associated with the existing AGS and LADWP power plants appear as particularly vivid dominating features above the horizon of the view.			
Overall	3.5	This view is occupied entirely by human-made structures with the most vivid features consisting of the existing AGS power plant in the foreground view and LADWP power plant in the backdrop which add distinct elements of visual interest to the overall landscape.			
Intactness					

Visual Resource Survey:		AES - AEC		With Project	
KOP Location: Loynes Drive		Viewpoint: KOP 4			
Landscape Unit: NA		Date: Oct-15			
Viewpoint Description (Figure Caption):		View from KOP 4 with the AEC constructed. Four of the six AEC stacks and associated HRSG units as well as the ACC are visible in the center portion of the view.			
Photo Orientation: E					
Viewer Position: _____ Inferior <u>  X  </u> Level    _____ Superior					
View	Notes				
Foreground (0 - 1/2 mile)	New AEC stacks, HRSG units, and the ACC, would be visible among the existing AGS stacks and scaffolding as well as through the lower vegetative buffer within the foreground view.				
Middleground (1/2 - 4 miles)	Same				
Background (> 4 miles)	Same				
Vividness					
Feature	Score*	Notes			
Landform	3	No change			
Vegetation	3.5	No change			
Water Feature	3.5	No change			
Human-Made	4.5	The new AEC stacks are measurably lower and overall infrastructure more streamlined than existing AGS structures. Scale and height of power plant structures result in a slight increase in the degree of industrial development. Addition of AEC structures in the view reinforce the moderate level of vividness in the view.			
Overall	3.6	This relatively open view across the Los Cerritos Channel along Loynes Drive is that of power generation infrastructure. The vividness of the view remains moderately low with the incremental degree of change.			
Intactness					

Overall	<b>2</b>	In this energy production zone, the vertical forms (including stacks, transmission structures, and light poles) and horizontal forms (bridge, fencing, riprap, transmission lines, roadway) extend from the foreground to middleground cluttering the view. The existing AGS stacks are sporadically spaced in the view with no apparent order. Distant forms associated with LADWP Haynes Generating Station reinforce the vertical and horizontal elements contributing to the repetitive vertical features. Human-made features are visible along the horizon as well as above the horizon in no apparent order spanning the entire view creating a low level of intactness.
<b>Unity</b>		
Overall	<b>3</b>	The overall view is typical of an energy production zone. Horizontal and vertical human-made elements create a composition with a moderately low level of visual unity.
<b>Overall Visual Quality Score</b>	<b>2.8</b>	Low

\*Score Key:

1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

Overall	<b>1.5</b>	The six AEC stacks (in varying scale and height) are added to the six existing AGS stacks. The impact of the bulky ACC structure and four stacks increase the intensity of development on the site resulting in a lower level of intactness.
<b>Unity</b>		
Overall	<b>3.5</b>	The presence of new AEC stacks and HRSG units create a horizontal pattern across the foreground that reinforces the visual unity of the view by creating a more cohesive composition.
<b>Overall Visual Quality Score</b>	<b>2.9</b>	Low

\*Score Key:

1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High

KOP	Existing	Simulated	Difference
1	3.5	3.5	0.0
2	3.1	3.0	0.1
3	3.7	3.7	0.0
4	2.8	2.9	0.0

\*Score Key:

1 - Very Low; 2 - Low; 3 - Moderately Low; 4 - Moderate; 5 - Moderately High; 6 - High; 7 - Very High



**Appendix 5.14A**  
**Phase 1 Environmental Site Assessment**

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**PHASE I ENVIRONMENTAL  
SITE ASSESSMENT**

**AES ALAMITOS PLANT  
690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA 90803**



**PROJECT NUMBER EMS514  
AES NORTH AMERICA DEVELOPMENT LLC  
690 N. STUDEBAKER ROAD  
LONG BEACH, CA 90803**

**JULY 2015**

# ***TECHNICAL REPORT***

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## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**AES ALAMITOS PLANT  
690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA**

**JULY 2015**

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**ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.**

*Financially Based,*  
16510 Aston St.  
Tel (949) 679-9500



*Environmental Solutions*  
Irvine, CA 92606  
Fax (949) 679-9501

**CERTIFICATION**

All engineering and geologic information, conclusions, and recommendations in this document were prepared under the supervision of and reviewed by an Environmental Management Strategies, Inc. Professional Geologist in the State of California. Further and to the best of our professional knowledge and belief, the work was performed by professionals who meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and these professionals have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. Our investigation conforms to the U.S. Environmental Protection Agency’s (EPA) Standards and Practices for All Appropriate Inquiries (AAI, 40 CFR Part 312) as well as ASTM International’s (ASTM) Standard E 1527-13 titled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”.



July 16, 2015

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Anthony F. Severini  
President  
Professional Geologist  
No. 3852

Date

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# 1 Executive Summary

Environmental Management Strategies, Inc. (EMS) is pleased to present this Phase I Environmental Site Assessment (Phase I ESA) for the AES Alamitos electrical power plant located at 690 North Studebaker Road, in the City of Long Beach, Los Angeles County, California 90803 (the “Site”, see Figures 1 and 2). AES North American Development, LLC (AES) retained EMS on June 5, 2015 to perform the Phase I ESA in support of AES’ purchase of part of the former aboveground storage tank field adjacent to the site. Our investigation conforms to the U.S. Environmental Protection Agency’s (EPA) Standards and Practices for All Appropriate Inquiries (AAI, 40 CFR Part 312) as well as ASTM International’s (ASTM) Standard E 1527-13 titled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”.

AES previously retained EMS on October 24, 2011 and December 19, 2012 to perform Phase I ESAs for the site. Results of these investigations were presented in EMS’ *Phase I Environmental Site Assessment, Alamitos Electrical Power Plant*, dated February 15, 2012 and *Phase I Environmental Site Assessment, Alamitos Electrical Power Plant*, dated March 6, 2013. In addition to new information, this report re-presents findings included in our Previous Phase I ESAs.

## 1.1 Background

The site is currently occupied by an AES electrical power plant and former aboveground storage tank area formerly operated by Southern California Edison (SCE). The AES Alamitos facility is a natural gas fueled electrical power plant operated by AES since 1998. SCE previously operated the plant using both natural gas and fuel oil until 1989 when fuel oil was permanently retired as a fuel source and natural gas was used exclusively from that year forward.

## 1.2 Scope of Work

EMS performed the following scope of work in support of developing this Phase I ESA:

- EMS reviewed previous reports documenting environmental conditions at the site. This included the Previous Phase I ESAs completed by EMS during February 2012 and March 2013 and reports provided to EMS by Mr. Tracy Powell, Environmental Engineer with AES.
- EMS performed a detailed investigation into the historical use of the site. Our historical investigation entailed the review of reasonably ascertainable documents from standard sources from the late 1800’s to the present.
- EMS conducted a review of reasonably ascertainable regulatory agency information regarding hazardous material use, disposal, and contaminated property information for the site and surrounding area. This review included a search for environmental liens as well as activity and use limitations (AULs) on the site.
- EMS contacted the following public agencies and utilities for additional information for the site: the EPA; the State of California Department of Toxic Substances Control (DTSC); the California Department of Conservation, Division of Oil, Gas and

Geothermal Resources (DOGGR); the State of California Water Resources Control Board (SWRCB); the Los Angeles Regional Water Quality Control Board (RWQCB); and, the South Coast Air Quality Management District (AQMD). EMS contacted the Long Beach Fire Department (LBFD) and the City of Long Beach Department of Health and Human Services (LBDHHS).

- EMS was supplied with an ASTM E 1527-13 User Questionnaire completed by Mr. Tracy Powell, Environmental Engineer, AES Southland.
- EMS performed an inspection of the site on June 5, 2015. During the site inspection, EMS interviewed Mr. Tracy Powell, Environmental Engineer, AES Southland.
- During EMS' Previous Phase I ESAs, EMS interviewed Mr. Mike Linares, Environmental Coordinator with AES, Mr. Steven Maghy, Environmental Manager with AES, Mr. Randall Weidner, Environmental Project Manager with SCE, and Mr. Patrick Hamilton, SCE's consultant.

### ***1.3 Results of Investigation***

EMS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the AES Alamitos electrical power plant located at 690 North Studebaker Road, in the City of Long Beach, Los Angeles County, California. Any exception to, or deletions from, this practice are described in Section 3 of this report. The concerns noted during the performance of EMS' Previous Phase I ESAs in 2012 and 2013 still apply as of the date of this report. EMS' Phase I ESA revealed no evidence of *Recognized Environmental Conditions*, *Historical Recognized Environmental Conditions*, *Controlled Recognized Environmental Conditions* or *De Minimis Conditions* in connection with the site with the following exceptions:

- Historical sources indicate the site may have been utilized for agriculture. Detectable levels of agricultural chemicals, such as fertilizers and pesticides, may be present in the subsurface. Generally these chemicals would not be detected at concentrations that would present an environmental concern to the site unless a specific facility existed where these chemicals were used or handled in a manner that would result in the accumulation of higher concentrations. No such facility was identified on historical use sources with the following exceptions: Small structures that appear to be farm houses and associated outbuildings were observed in the general area of Units 3 and 4 prior to construction of the power plant. In the event soil becomes exposed in this area due to decommissioning of Units 3 and 4, EMS recommends sampling soils in this area for agricultural chemicals.
- The site was previously fueled by petroleum fuel oil. Above-ground storage tanks (ASTs) previously and currently associated with the site are known to have impacted shallow soil with petroleum hydrocarbons. Two former AST areas are now part of the site along with above-ground and underground fuel oil pipelines. The presence of these former AST areas and pipelines represents a *Recognized Environmental Condition* in connection with the site.

- One large AST previously utilized to store jet fuel remains on the site. This was used to fuel jet engines formerly located in the Unit 7 Peaker building; however, these jet engines were removed from the site. The tank is no longer used but may contain residual fuel and water. Jet fuel was transferred from the tank to the Unit 7 Peaker building via underground pipelines. AES was unaware of any subsurface investigations of the tank or the pipelines in this area. The presence of this AST and associated pipelines represents a *Recognized Environmental Condition* in connection with the site.
- Groundwater underlying the site is known to be impacted by metals, volatile organic compounds (VOCs) and 1,4-dioxane. Groundwater is monitored as part of on-going subsurface investigations regarding former SCE operations at the site including former operation of wastewater retention basins. These investigations are currently overseen by the DTSC. The presence of groundwater contamination represents a *Recognized Environmental Condition* in connection with the site.
- EMS did not observe any significant instances of the misuse or improper storage of chemicals or poor housekeeping; therefore, the current chemical use of non-hazardous and hazardous substances is not an environmental concern with the following exception; perchloroethene (PCE, also referred to as tetrachloroethene), trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) were apparently used at the site. These halogenated solvents, and their breakdown products, have been detected in groundwater underlying the site. The previous use of these VOCs and their detections in groundwater represent a *Recognized Environmental Condition* in connection with the site.
- Several spills have been noted at the site. Most documented spills involved petroleum products and were immediately addressed and observed and/or reported to local agencies. Most of these spills appear to represent *De Minimis Conditions* in connection with the site. Oil spills were also reported in the pig launching area and a location where a pipeline crosses under the roadway near units #5 and #6. These spills were reported to have been cleaned up; however, some contamination was noted to remain due to limited access. Staining was also previously noted in the powerblock areas and associated with fuel-oil handling equipment. Although the site is currently powered by natural gas, it is reasonable to assume that historical operations have resulted in spills of fuel oil in various areas of the site. Even if cleanup was performed at the time of the spill, it is reasonable to assume that residual contamination exists and may not be revealed until equipment is decommissioned and removed. The former extensive use of fuel oil represents a *Recognized Environmental Condition* in connection with the site.
- Transformers are currently reported to use non-polychlorinated biphenyl (PCB) containing mineral oil; however, PCB containing oil was used in the past. The former use of PCB containing oil represents a *Recognized Environmental Condition* in connection with the site.
- One underground storage tank (UST) is currently present at the site to store ammonia. The UST is a 20,000-gallon, double-walled UST and includes a monitoring system. Based on this information, this UST does not appear to pose an environmental concern to the site.

Three USTs, including a 550-gallon waste oil, 6,000-gallon diesel tank and 6,000-gallon gasoline tank were reportedly installed in 1986 and removed in April 2003. A closure letter dated May 13, 2003 from the Long Beach/Signal Hill Joint Powers Agency confirmed the satisfactory removal of the three tanks and issued a “no further action” statement. Based on this information, these three former USTs represent a *Historical Recognized Environmental Condition* in connection with the site.

- EDR’s Historical UST (HIST UST) listing identified over 25 HIST UST records for the site. The installation dates range from 1956 to 1982 and the contents are reported as unleaded product, product, waste oil and waste. Some records may be duplicate records or refer to waste contained in below-grade oil/water separators and/or clarifiers; however, a total of eleven are identified as containing product and two contain waste oil. The large number of additional records for USTs at the site without removal and closure documentation represents a *Recognized Environmental Condition* in connection with the site.
- One inactive permit for a “Spray Booth, Paint and Solvent” was identified for the site dated March 3, 1998. AES was aware that it was located near a maintenance shop but did not know an exact location of the former spray booth. The former use of a spray booth represents a *Recognized Environmental Condition* in connection with the site.
- EMS noted asbestos waste being stored onsite in a waste bin prior to its removal from the Site. The presence of asbestos waste on the Site represents a *Recognized Environmental Condition* in connection with the site.
- There were no instances of off-site sources of groundwater contamination that are currently likely to have impacted the site based on available regulatory information and recent groundwater flow; however, the site is located in an area documented to have had commercial and industrial activities dating back several decades. The possibility exists that nearby historical activities and previous groundwater flow directions could have caused off-site migration onto the site in the past. Adjacent properties known or suspected of containing soil contamination include the adjacent ASTs formally associated with the site and now owned by Plains America and Tom Dean, the former hazardous waste site located at Loynes Drive and Studebaker Road to the northwest and the Dredged Materials Area south of the site and east of the Plains America ASTs. The contamination on these adjacent properties represents a *Recognized Environmental Condition* in connection with the site.
- Recent sampling performed in 2012 detected PCBs within wastewater contained in the North Retention Basin. The wastewater was removed, the solids filtered, separated and stored in bins for subsequent disposal as hazardous material. EMS was informed the PCBs were believed to have originated in contaminated oil from the Unit 7 Peaker unit. The presence of PCBs within wastewater represents a *Recognized Environmental Condition* in connection with the site.
- Elevated levels of nickel were detected in well AW-33 near the Central Retention Basin. AES personnel was unsure of the source of the nickel, but indicated the source may be a

corroded transfer line leading from the North Retention Basin that was found to be leaking. This pipeline was cut and replaced. EMS was previously informed that some nickel detected between the basins and the San Gabriel River channel may be from dredged materials. The elevated levels of nickel in well AW-33 may also be the result of these materials and a rising groundwater elevation. The presence of elevated levels of metals in well AW-33 represents a *Recognized Environmental Condition* in connection with the site.

- The discovery of damaged, leaking pipelines noted above, including pipelines that could potentially transport materials such as the PCB contaminated wastewater also noted above, represents a *Recognized Environmental Condition* in connection with the site.
- EMS was previously informed by SCE that the majority of additional soil and soil vapor investigation work, including soil matrix sampling along the fuel-oil pipelines, has been completed and that all work was reported by November 2014. EMS was able to review these reports. EMS was informed by SCE that the soil vapor plume previously identified north of the Central Basin appears limited in extent and significantly degraded, and that residual gasoline from the removed USTs was detected adjacent to the electrical building (former auto shop). EMS' review of the final Soil Characterization Report and Soil Vapor Survey Report indicates that the soil below the Central Basin has been impacted by a release of wastewater and the impacted soil is confined to the basin footprint. EMS believes the confirmed soil contamination along the Central Basin represents a *Recognized Environmental Condition* in connection with the site.

Although not considered *Recognized Environmental Conditions* as defined by the EPA AAI rule and ASTM E 1527-13, EMS also noted the following potential environmental concerns and issues:

- The site buildings were constructed prior to 1980; therefore, asbestos-containing building materials and lead based paint may be present on-site.
- The presence of VOCs in soil and groundwater underlying the site represents a potential vapor intrusion issue in connection with the site.
- The presence of insulation material haphazardly stored in a covered outdoor area of the Site may impact stormwater runoff.

## 2 Introduction

Environmental Management Strategies, Inc. (EMS) is pleased to present this Phase I Environmental Site Assessment (Phase I ESA) for the AES Alamitos electrical power plant located at 690 North Studebaker Road, in the City of Long Beach, Los Angeles County, California 90803 (the “Site”, see Figures 1 and 2). AES North American Development, LLC (AES) retained EMS on May 11, 2015 to perform the Phase I ESA in support of AES’ purchase of part of the former aboveground storage tank field adjacent to the site.

AES previously retained EMS on October 24, 2011 and December 19, 2012 to perform Phase I ESAs for the site. Results of these investigations were presented in EMS’ *Phase I Environmental Site Assessment, Alamitos Electrical Power Plant*, dated February 15, 2012 and *Phase I Environmental Site Assessment, Alamitos Electrical Power Plant*, dated March 6, 2013. In addition to new information, this report re-presents findings included in our Previous Phase I ESAs.

### 2.1 Purpose

The purpose of this Phase I ESA is to identify *Recognized Environmental Conditions* as defined by the U.S. Environmental Protection Agency’s (EPA) Standards and Practices for All Appropriate Inquiries (AAI, 40 CFR Part 312) as well as the American Society for Testing and Materials (ASTM) Standard E 1527-13 titled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”. The ASTM standard defines *Recognized Environmental Condition* as follows: “The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De Minimis* conditions are not *recognized environmental conditions*.”

The EPA’s AAI and ASTM E 1527-13 practices are intended to permit the *User*, AES, to satisfy one of the requirements to qualify for the *Innocent Landowner, Contiguous Property Owner, or Bona Fide Prospective Purchaser* limitations on Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability (also known as “*Landowner Liability Protections*”). Additional requirements include, but are not limited to, complying with activity and use limitations (AULs), taking reasonable steps to prevent releases, complying with legally required release reporting obligations, etc.

In addition to *Recognized Environmental Conditions*, this Phase I ESA also reports on *Historical Recognized Environmental Conditions, Controlled Recognized Environmental Conditions, De Minimis* conditions and other potential environmental concerns and issues (also known as *Business Environmental Risks*) such as Vapor Encroachment Conditions (VECs), asbestos-containing materials (ACM), polychlorinated biphenyl (PCB) containing electrical equipment, lead-based paint, radon, etc.

#### 2.1.1 Special Terms and Conditions

Our investigation conforms to the EPA’s AAI rule and ASTM E 1527-13. This report was prepared by EMS solely for the use and benefit of AES, together with its affiliates, participants, successors and assigns. No other parties shall have any right to rely on this document. The use

of this report is expressly controlled by the terms and conditions in the contract between AES and EMS.

### **2.1.2 Methodology**

Mr. Anthony F. Severini and Mr. Ashley Flores of EMS performed the Phase I ESA. Mr. Severini is a State of California registered Professional Geologists with over thirty years of relevant, full-time experience performing Phase I ESAs within several states throughout the United States. Mr. Flores holds a Bachelor of Science degree in Environmental Science and has over five years of relevant, full-time experience performing Phase I ESAs.

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

Mr. Severini's and Mr. Flores' detailed qualifications are presented in Appendix A. EMS performed the following scope of work in support of developing this Phase I ESA:

- EMS reviewed previous reports documenting environmental conditions at the site. This included the Previous Phase I ESAs completed by EMS during February 2012 and March 2013 and reports provided to EMS by Mr. Tracy Powell, Environmental Engineer, AES Southland.
- EMS performed a detailed investigation into the historical use of the site. Our historical investigation entailed the review of reasonably ascertainable documents from standard sources from the late 1800's to the present.
- EMS conducted a review of reasonably ascertainable regulatory agency information regarding hazardous material use, disposal, and contaminated property information for the site and surrounding area. This review included a search for environmental liens as well as activity and use limitations (AULs) on the site.
- EMS contacted the following public agencies and utilities for additional information for the site: the EPA; the State of California Department of Toxic Substances Control (DTSC); the California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR); the State of California Water Resources Control Board (SWRCB); the Los Angeles Regional Water Quality Control Board (RWQCB); and, the South Coast Air Quality Management District (AQMD). EMS contacted the Long Beach Fire Department (LBFD) and the City of Long Beach Department of Health and Human Services (LBDHHS).
- EMS was supplied with an ASTM E 1527-13 User Questionnaire completed by Mr. Tracy Powell, Environmental Engineer, AES Southland.
- EMS performed an inspection of the site on June 5, 2015. During the site inspection, EMS interviewed Mr. Tracy Powell, Environmental Engineer, AES Southland.

- During EMS' Previous Phase I ESAs, EMS interviewed Mr. Mike Linares, Environmental Coordinator with AES, Mr. Steven Maghy, Environmental Manager with AES, Mr. Randall Weidner, Environmental Project Manager with SCE, and Mr. Patrick Hamilton, SCE's consultant.

## **2.2 Site Description**

The site currently consists of three parcels of land totaling approximately 73.58 acres. The site is currently occupied by an AES electrical power plant formerly operated by Southern California Edison (SCE). The AES Alamitos facility is a natural gas fueled electrical power plant operated by AES since 1998.

### **2.2.1 Site Location**

The site is located at 690 North Studebaker Road in the City of Long Beach, Los Angeles County, California 90803. The site is comprised of land identified by parcel numbers 7237-018-808 for the northern portion of the site, 7237-019-808 for the southern portion of the site and 7237-019-005 for the former aboveground storage tank farm.

### **2.2.2 Site and Vicinity Characteristics**

The site is located in a mixed commercial/industrial and residential area within the City of Long Beach. The site is bordered to the north by a SCE switch yard and self storage facility, to the west by residential and undeveloped land across North Studebaker Road, to the south by a tank farm owned by Plains America and to the east by a City of Los Angeles Department of Water and Power (LADWP) plant located across the San Gabriel River. Half of the Tom Dean property is now part of the Site which includes the two pads which formerly contained two ASTs. The Tom Dean property was also previously owned by Plains America. The Tom Dean and Plains America tank farms were once part of the power plant when SCE operated the site utilizing fuel oil.

### **2.2.3 Description of Structures, Roads and other Improvements**

The site currently consists of a natural gas fueled power plant operating six electrical power generating units and half of a former tank farm. Each unit is comprised of a boiler, turbine and other support facilities. The site includes underground fuel-oil pipelines and wastewater retention basins once operated by SCE. Subsurface investigations regarding former SCE operations are on-going at the site.

### **2.2.4 Information Reported by Property Engineers**

During EMS' site visit, information regarding site operations was provided by Mr. Tracy Powell, Environmental Engineer, AES Southland. During EMS' Previous Phase I ESA, information regarding site operations was provided by Mr. Mike Linares, Environmental Coordinator with AES and Mr. Steven Maghy, Environmental Manager with AES. Pertinent information provided by Mr. Powell, Mr. Linares and Mr. Maghy is included in Section 2.4.

### **2.2.5 Current Uses of the Property**

The site is currently occupied by an AES electrical power plant formerly operated by SCE. The AES Alamitos facility is a natural gas fueled electrical power plant operated by AES since 1998.

## **2.2.6 Past Uses of the Property**

Based on information reviewed by EMS during the performance of EMS' Previous Phase I ESAs, the Site was previously vacant undeveloped land possibly utilized for agricultural purposes prior to construction of the electrical power generating station in the mid 1950s.

## **2.2.7 Past and Current Uses of Adjoining Properties**

Based on information reviewed by EMS during the performance of EMS' previous Phase I ESAs, the Site vicinity was previously vacant undeveloped land possibly utilized for agricultural purposes prior to construction of residential neighborhoods to the west, the LADWP power plant to the east and other commercial/industrial businesses in the surrounding area.

## **2.3 Records Review**

EMS conducted a review of reasonably ascertainable and practically reviewable public information for the site and surrounding area. The information was supplied to EMS both by an outside contractor specializing in compiling such information and by direct contacts made by EMS.

### **2.3.1 Standard Environmental Records Sources: Federal, State, Tribal and Local**

EMS retained Environmental Data Resources, Inc. (EDR) to perform a search of reasonably ascertainable information from databases for facilities with environmental records within the Site vicinity. The information sources utilized by EDR included publicly available databases compiled by federal, state, tribal and local governmental agencies and proprietary databases available through EDR. The EDR report was designed to assist parties seeking to meet the search requirements of the EPA's AAI rule and ASTM E 1527-13. The databases searched provide information on facilities with records including, but not limited to, the following potential environmental concerns: Resource Conservation and Recovery Act Small and Large Quantity Hazardous Waste Generators (RCRA-SQGs and RCRA-LQGs); the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS); registered above-ground storage tanks (ASTs); registered underground storage tanks (USTs); historical USTs (HIST USTs); leaking USTs (LUSTs); non-tank spills of hazardous materials; active and inactive landfills; and facilities engaged in the investigation and cleanup of known releases of hazardous materials. In general, the EPA's AAI rule and ASTM E 1527-13 require a larger search radius for databases with information of greater environmental concern (such as LUSTs, landfills and hazardous substance release facilities) than databases with information of lesser environmental concern (such as registered ASTs, USTs, RCRA-SQGs and RCRA-LQGs).

The EPA's AAI rule and ASTM E 1527-13 require the Phase I ESA to include searches for environmental cleanup liens as well as AULs including institutional and engineering controls, recorded under federal, state, tribal, or local laws. The AAI rule and ASTM E 1527-13 allows that either the prospective property owner or the environmental professional may conduct these searches.

EDR's regulatory agency database search included searches for liens and AULs from the following four EPA databases: Federal Superfund Liens (NPL LIENS); CERCLA Lien Information (LIEN2); Engineering Controls Sites (US ENG CONTROLS); and Sites with Institutional Controls (US INST CONTROLS). EDR's regulatory agency database search also

included a search of the DTSC's Deed Restriction Listing (DEED) and Lien Holder (LIENS) databases. Specific information regarding the databases searched, corresponding search radii, and search results are presented in EDR's report entitled, *EDR Radius Map<sup>TM</sup> with GeoCheck<sup>®</sup>*, included in Appendix B.

EMS also retained EDR to perform an environmental lien search for the site. Due to the multiple parcel numbers for the site, the review of previous parcels on the Site and in order to reduce costs, the search was conducted for the parcel acquired by AES of 7237-019-005 and included a search for environmental liens and other AULs. The results of this lien search are presented in EDR's report entitled, *EDR Environmental LienSearch<sup>TM</sup> Report*, included in Appendix C. The *EDR Property Tax Map Report*, obtained during EMS Previous Phase I ESA, is included in Appendix D.

The site address of 690 North Studebaker Road was not identified on the NPL LIENS, LIENS 2, US ENG CONTROLS, US INST CONTROLS, DEEDS or LIENS databases. No AULs were found for the site's parcel number of 7237-019-005. The EDR report indicates that title for the parcel number of 7237-019-005 site is vested in AES Alamitos Energy, LLC and was received from Loynes Beach Partners, LLC on December 23, 2014. EDR's previous environmental lien search found a DTSC environmental lien for parcel number 7237-019-808 against SCE dated January 31, 2012. The environmental lien appears related to on-going subsurface investigations regarding former SCE operations at the site including former operation of wastewater retention basins. The DTSC determined the draft closure demonstration report is technically complete and that SCE agreed to pay civil payments and reimburse the DTSC for violating provisions of the Hazardous Waste Control Law. The EDR report also included groundwater monitoring reports and other documentation available from the DTSC's EnviroStor website; however, the materials provided by EDR did not include a 1995 *Final Judgment Pursuant to Stipulation* between the DTSC and SCE which included the civil payments and reimbursement amounts (see Section 2.3.5).

The site address was listed under various names including Southern California, Alamitos Generating Station, Alamitos Generating, AES Alamitos Station, SCE Alamitos Genera, AES Alamitos LLC, US Bureau Rec. Pilot, Studebaker LB LLC, SCE Alamitos Gen Sta, Southern California, So Cal Edison Co, AES Alamitos, Edison O and M Servi, Plains West Coast TE, Tank Farm @ 690 N. S, Alamitos Pump Statio, Unit #3, 690 North S, EPTC Alamitos, etc. Please note that EPTC refers to Edison Pipeline and Terminal Company, SCE's pipeline division. The site address was identified on the following databases indicating that a release to the environment had been reported (except air-pollution releases noted below) and/or an investigation of known soil or groundwater contamination had occurred or is ongoing:

- CHMIRS: California Hazardous Material Incident Report System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills);
- ERNS: Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances;

- SLIC: Statewide SLIC Cases. The RWQCB's SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges;
- CORRACTS: Corrective Action Report. CORRACTS identifies hazardous waste handlers with RCRA corrective action activity; and
- TOXIC PITS: Toxic Pits Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

The site address was identified on the following database pertaining to air-pollution regulation compliance and releases to the atmosphere: Requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program

- EMI: Emissions Inventory Data. Toxics and criteria pollutant emissions data collected by the Air Resources Board (ARB) and local air pollution agencies.
- RMP: Risk Management Plan. Requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program.

The site address was also identified on the following database pertaining to regulatory enforcement actions:

- ENF: Enforcement Action Listing. A listing of RWQCB Enforcement Actions;
- EPA WATCH LIST: Lists cases requiring additional dialogue between EPA, state and local agencies regarding alleged violations.

The site address was also identified on the following databases pertaining to chemical handling, chemical storage, waste generation, and disposal activities:

- RCRA-Non-Gen (not a current generator of hazardous waste), RCRA-SQG and RCRA-LQG databases;
- Various historical, known and registered UST databases;
- Registered AST database;
- HAZNET: Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC;
- WDS: Waste Discharge System. Sites which have been issued waste discharge requirements;
- NPDES: National Pollutant Discharge Elimination System Permits. A listing of NPDES permits, including storm water.

The site address was also identified on the following database that summarizes records from other databases, but does not provide detailed site information:

- CA SPILLS 90: The RWQCB maintains reports of sites that have records of spills, leaks, investigations and cleanups.
- FINDS: Facility Index System/Facility Registry System. FINDS contains both facility information and 'pointers' to other sources that contain more detail.
- 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.

A detailed review and summary of all the records identified by EDR for the site is not within the scope of this investigation. Below is a summary of environmental records pertaining to releases to the environment, not including air emissions.

Since 1995 eleven incidents at the site have been recorded by CHMIRS typically involving oil, fuel-oil and petroleum spills. Generally, the incidents were reported to the Long Beach Fire department by site personnel and were either contained at the site by berms, booms or where necessary by vacuum trucks.

Nine ERNS records were identified for the site and are duplicate reports of the CHMIRS records noted above.

The site has received nine ENF notices, only one of them is currently listed as active while the remaining were listed as historical. The active ENF is for a letter sent requesting information in response to temperature violations.

The SLIC, CORRACTS and TOXIC PITs records appear to pertain to ongoing investigation activities to close wastewater retention basins that SCE had operated without a permit or other form of authorization from the DTSC and investigations for the fuel oil ASTs formerly associated with the site. Additional information regarding these activities is included in Sections 2.3.4 and 2.3.5.

The EDR report also has several records pertaining to USTs and ASTs at the site. The Statewide Environmental Evaluation and Planning System (SWEEPS) listing indicate one waste oil, one unleaded motor vehicle fuel and one aqua ammonia UST at the site as of 1993. The UST database lists a dual walled tank at the site address. EDR's HIST UST listing identifies over 25 HIST UST records. The installation dates range from 1956 to 1982 and the contents are reported as unleaded product, product, waste oil and waste.

One AST record was identified. Although the contents were not reported, this 296,752 gallon AST likely contained fuel oil or jet fuel.

Numerous additional environmental records were identified for facilities in the surrounding area. Due to the distance and direction from the site, and the nature of the information present in the

EDR report, most of these records do not appear to represent a potential environmental concern to the site.

EPTC ALAMITOS PARCEL, SCE-ALAMITOS, EPTC – ALAMITOS, EPTC ALAMITOS PARCEL and ALAMITOS STATION reported at 692 Studebaker Road, were identified on the CA ENVIROSTOR, CA AST, State and Tribal Voluntary Cleanup Sites, CA Deed and CA HWP databases. Based on information contained in the CA EnviroStor database, this facility is actually located six miles west of the site in Long Beach harbor. Based on this information, this facility it does not appear to pose an environmental concern to the site.

Five records for solid waste facilities were apparently identified at or near the intersection of Studebaker Road and Loynes Drive. CITY DUMP & SALVAG, CITY DUMP & SALVAGE, STUDEBAKER-CERRITOS and STUDEBAKER-LOYNES were identified on the Solid Waste Facilities/Landfill Sites (CA SWF/LF) and Waste Management Unit Database (CA WMUD/SWAT) databases. All four records were identified to be 0- to 1/8- mile west of the site. Based on information contained in the EDR report, these records appear to pertain to land southwest of the intersection of Studebaker Road and Loynes Drive. This land is separated from the site by the Tom Dean and Planes America properties as well as the southern inlet channel. Based on this information, these records do not appear to pose an environmental concern to the site.

Two records for HAYNES GENERATING ST and LAWP, HAYNES GENERATI reported at 6801 Westminster Ave are included in the CA WMUD/SWAT and CA Toxic Pits databases. These records were identified ¼ - ½ mile south of the Site. These records appear to pertain to land to the southeast of the Site separated by the San Gabriel River. The CA Toxic Pits database also lists the status for this site as “CLOSED” with a closure date of 10/18/90. Based on this information, these records do not appear to pose an environmental concern to the site.

The EDR report also identifies “orphan” facilities that, due to poor or inadequate address information, could not be accurately mapped. No such facilities were identified.

The results of EMS’ review of Standard Environmental Records Sources revealed evidence of *Recognized Environmental Conditions* in connection with the site including documented chemical handling activities, hazardous waste generation and releases of chemicals to land and/or water. Some records pertain to on-going investigations of former SCE operations. In addition, numerous HIST USTs were identified for the site. Additional information regarding these issues is included in Sections 2.3.4 and 2.3.5.

### **2.3.2 Physical Setting Sources**

The EDR Radius Map<sup>TM</sup> Report provides a physical setting source addendum (Geocheck<sup>®</sup>). The Site is located at an elevation of approximately 11-feet above mean sea level (msl). Local topography decreases in elevation to the west-northwest. The site is located in a 500-year Federal Emergency Management Agency (FEMA) flood zone. The EDR report searched for site-specific hydrogeologic data within a 1.25-mile radius from the site. No site-specific hydrogeologic data was found for the site as it is located within an estuary and is subject to tidal influences. EDR has also developed a groundwater information system, known as Aquiflow, which maintains groundwater depth and flow direction data from reports submitted by

environmental professionals to regulatory agencies. No additional data was reported. The EDR report also searched for public water systems and water wells known to the United States Geological Survey (USGS) and water wells known to the State of California. Twelve Federal USGS water wells were listed within one mile of the site. The State Database Well Information also listed two wells within one-mile of the site. No public water supply system was identified within one-mile of the site. The State Oil/Gas Well database identified numerous wells 0.25- to one-mile from the site. The EDR report did not identify any earthquake fault lines within one mile of the site.

EMS reviewed 2009, 2010, 2011 and 2013 annual groundwater monitoring reports and a third quarter 2012 groundwater monitoring report prepared for the site on behalf of SCE. Groundwater is present below the site at depths ranging from approximately 10 to 20 feet. The groundwater gradient is relatively flat and reportedly flows to the east toward a depression in the groundwater elevation located at the South Retention Basin. Additional information regarding on-going investigations on behalf of SCE is included in Section 2.3.4 and 2.3.5.

With the exception of on-going monitoring activities on behalf of SCE, the results of EMS' review of Physical Setting Sources did not reveal any evidence of *Recognized Environmental Conditions* in connection with the site.

### **2.3.3 Historical Use Information**

EMS conducted a review of reasonably ascertainable historical information from standard sources to determine the past land use of the Site and surrounding area including the following: Sanborn<sup>®</sup> fire insurance maps; historical topographic maps; historical aerial photographs; historical city directories; and, historical building permits. The following paragraphs summarize our findings.

#### **2.3.3.1 Sanborn<sup>®</sup> Fire Insurance Map Review**

EMS retained EDR to perform a search for historical Sanborn<sup>®</sup> fire insurance maps for the site vicinity. Sanborn<sup>®</sup> maps were not available for the site vicinity. EDR's *Certified Sanborn<sup>®</sup> Map Report* is included in Appendix E.

#### **2.3.3.2 Historical USGS Topographic Map Review**

EMS retained EDR to provide historical topographic maps prepared by the USGS for the site vicinity. Historical topographic maps were available for the years 1896, 1901, 1902, 1947, 1950, 1951, 1964, 1972 and 1981. The *EDR Historical Topographic Map Report* is included in Appendix F.

No specific land use is identified on the site or immediately adjacent properties in the 1896 through 1947 topographic maps; however the site and immediate area is apparently located in marsh or swamp land. Highways 101 and 22 are present and the marina area west of the site is fully developed and the residential area of Naples and Belmont Shore are fully developed in the 1950 and 1951 topographic map. By the time of the 1950 and 1951 topographic map, the San Gabriel River is identified and the Anaheim Bay Naval Station is present. Also on the 1950 and 1951 topographic map, buildings and the Naval Hospital are identified to the north west of the site. Numerous oil wells are present southeast of the site. The power generating sub-station

(Units 1 through 4) and several large ASTs (currently the Tom Dean and Plains America properties) are present on the site by the 1964 topographic map and the surrounding areas are fully developed into an urban grid setting. The Cerritos Channel is also present. There are no other significant changes to the 1972 and 1981 topographic maps with the exception of increased development in the surrounding area and the addition of Units 5 and 6 and a few other large ASTs on the Plains America property in 1972.

### **2.3.3.3 Aerial Photograph Review**

EMS reviewed historical aerial photographs obtained from EDR for the years, 1928, 1938, 1947, 1952, 1963, 1972, 1977, 1981, 1989, 1994, 2005, 2009, 2010 and 2012. The *EDR Aerial Photo Decade Package* report is included in Appendix G.

The 1927 to 1952 aerial photographs indicate the site and all adjacent properties appear to be comprised of agricultural and vacant undeveloped land with a few small structures. The 1963 photograph appears to show the power plant (Units 1 and 2) and attendant structures. The area immediately west of the site across the Cerritos Channel appears to have been developed with what appears to be residential structures. Four large tanks and two smaller tanks are present south of Units 1 and 2, while two larger tanks are present to the south of the property. The 1972 photograph shows Studebaker fully developed and Loynes Street has been completed across the Cerritos Channel. A new channel has been cut from the Cerritos Channel across the southern portion of the property to the east side to service Units 5 and 6. Five additional large tanks are positioned beyond the southern boundary of the property (Plains America property). The LADWP property across the San Gabriel River east of the site also appears to be developed and there are now six large tanks present on that property. The 1977, 1989, 1994, 2005, 2009 and 2010 photographs do not show many changes to the site and surrounding area other than an increase in the density of urban residential development. The aerial photograph from 2010 indicates that the four large tanks south of Units 1 and 2 were removed from the property.

### **2.3.3.4 City Directory Abstract**

EMS retained EDR to provide a historical city directory search for the site and nearby properties. The city directories identify individuals and businesses by street address. EDR obtained information from sources including city and telephone directories dating from 1920 to 2013. The *EDR City Directory Abstract* is included in Appendix H.

The property address of 690 North Studebaker Road was listed on the Haines Company, Inc., Pacific Telephone and Cole Information Services directories. The properties were operated under various entities including AES, AES Southland LLC, WINTER, AES Alamitos LLC, AES Southland LLC, SCE Power Genera MTC, AES Alamitos and WINTER.

### **2.3.3.5 Building Permit Report**

EMS retained EDR to provide a building permit report for the site and adjacent properties. Permits for the demolition and abatement of aboveground storage tanks #1, #2, #3, #4 and cutter tank 2 were listed as open and issued for the site as of June 23, 2014. A permit for the replacement of the ammonia monitoring system was also issued for the site on December 20, 2012 and currently has a status of closed. Two permits were also issued for the installation of a pneumericator optical leak sensor. A building permit listing the change of use from offices to

charter high school is also listed for October 2, 2007. An electrical permit for the installation of a spray booth by Edison Southern California dated January 26, 1993 was also listed. The remaining permits are for electrical, plumbing and grading done at the site. The *EDR Building Permit Report* is included in Appendix I.

### **2.3.4 Previous Environmental Reports**

EMS has previously visited the site for the completion of two Phase I reports and was provided with access to hardcopy and electronic files of reports documenting various environmental issues for the facility. Due to time and budget and constraints, EMS could not review all of the documents available and chose to review those reports and documents EMS believed would provide the most information in a reasonable time frame. Reports reviewed for information used in EMS' Phase I ESA are listed in Section 5 other reports with additional information on the Site are listed in Section 5.1. Phase I reports completed by EMS were also reviewed and findings not addressed since these reports were completed have been included in Section 4. The following summarizes EMS' review of previous environmental reports.

EMS reviewed the updated AES Alamitos LLC Environmental Management System Manual (EMSM) dated December 2014. The EMSM lists the following regulatory permits, authorizations and approvals for the facility: SCAQMD Title V Permit 115394; RWQCB NPDES Permit CA0001139; Long Beach Fire Department Permit FP07089802; Certified Unified program Agency (CUPA) Permit HC00002282; and EPA Hazardous Waste Generator ID CAR000038265. The EMSM also lists the following legally required plans: Spill Prevention Control and Countermeasures (SPCC), Storm Water Pollution Prevention Plan (SWPPP), Risk Management Plan (RMP), Hazardous Materials Business Plan (HMBP), Hazardous Waste Contingency Plan (HWCP), Laboratory Certification, Water Quality Assurance/Quality Control (QA/QC) and Continuous Emissions Monitoring System (CEMS) QA/QC.

EMS reviewed the SPCC plan. This plan includes a table listing SPCC regulated containers and equipment. Products identified within the equipment included lubricating, turbine and hydraulic oils, waste, waste oils and hydraulic fluids, and petroleum-based mineral oils (non-PCB) of various types.

EMS reviewed a LBFD Underground Storage Tank Inspection Report, Double Walled System, dated January 8, 2010 for the aqua ammonia UST. The report indicates the UST size is "20K" (20,000-gallons) and that all sensors were functioning; however, the MSA Tank Guard VIII panel is obsolete and AES was planning an upgrade prior to May 2010. Additional information regarding the upgrading of this panel is presented in Section 2.4.

EMS reviewed documentation for several Notice of Violation (NOVs) issued by the AQMD and RWQCB. Mr. Powell informed EMS that the facility currently has on outstanding NOV from the AQMD and two from the RWQCB. The NOV from the AQMD is for the submittal of inaccurate emission reports for the first and third quarters of 2013. The first NOV from the RWQCB is for NPDES effluent temperature exceedance while the second is for laboratory issues. Additional information regarding these NOVs is presented in Sections 2.3.5 and 2.4.

EMS was previously provided with monthly hazardous waste reports dating from 2000 to 2011. From January through July 2011, the following wastes were generated at the site: Non-RCRA

Mixed Oil; Off-specification, aged or surplus organics; Unspecified aqueous solution; Unspecified oil-containing waste; Asbestos-containing waste; Corrosive Solids; Other organic solids; Unspecified organic liquid mixture; and Ethylene Glycol. The reports also indicated the quantity, the transporter and final disposal facility for each material. EMS was also supplied with a hazardous waste generation report for 2014 with many of the same wastes being generated during the 2014 year.

Subsequent to the site visit, EMS was provided with a list titled “*Alamitos Chemical Products Index, 2011*” identifying over 300 chemicals used in the daily operational activities associated with the maintenance and production of the Alamitos Generating Station. EMS reviewed chemicals on the list and identified the halogenated solvents perchloroethene (PCE, also referred to as tetrachloroethene), trichloroethene (TCE) and 1,1,1-trichloroethane (TCA). These halogenated solvents, and their breakdown products, have been detected in groundwater underlying the site. According to information supplied to EMS by Mr. Powell the solvents listed above are no longer used at the Site.

EMS was previously provided with a previous Phase I ESA and portions of a Phase II ESA conducted by CH2M Hill during 1997. CH2M Hill’s Phase I ESA executive summary is presented in its entirety below:

“CH2M HILL has performed a Phase I Environmental Site Assessment at the Alamitos Generating Station (ALGS) property located at 690 North Studebaker Road in Long Beach, California in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E1527. This assessment has revealed the following recognized environmental conditions in connection with the property. No other recognized environmental conditions were observed.”

- “An area of potential concern exists at the former hazardous waste site located at Loynes Drive and Studebaker Road. This site is immediately adjacent to the ALGS property to the northwest. The available information from the database search status, dated 11/9/81, indicates that environmental site screening was required at the site. No physical evidence of this site was apparent during the site walk at the ALGS. No other information was available on this site during, the time of the assessment.”
- “Subsurface investigation reports are currently being completed by ALGS for the retention basins located at the east side of the site. These reports are expected to be complete in mid-1996 and consist of a Monitoring Well Installation report, and a Soil Chemistry Investigation at the Central Retention Basin. Past use of the area for retention basins warranted the recent investigation, and therefore, the potential subsurface contamination must be currently considered as an area of potential concern.”
- “Review of existing baseline tank investigation reports indicated that contamination exists at all tank locations investigated to an average depth of approximately 18 inches. This contamination was estimated in the report not to exceed a depth of 2 feet in the immediate area surrounding the tanks and directly beneath the tanks. These tank sites are a future remediation liability, and the presence of the oil in the subsurface makes

these sites a recognized environmental condition.”

- “Spill records and remediation reports for the ALGS were reviewed and the results indicated that an oil spill in the pig launching area had been investigated and cleaned up; however, the subsurface could not be completely cleaned up. This was due to the spill migrating under concrete foundations and footings. Although the area of contamination remaining in the soil is estimated to be relatively small, it still remains as a future remediation liability, and has therefore been classified as a recognized environmental condition. Another spill that resulted from a pipeline break in a location where the pipeline crosses under the roadway near units #5 and #6 was reported during the site reconnaissance. The pipeline was reported to have been repaired; however, the soil contamination that was not accessible beneath the pipeline and road was not remediated due to the low risk of migration of the oil, given the characteristics of low viscosity oil and low permeability of the soils. This spill area is a future environmental liability and a recognized environmental condition.”
- “Transformers at the powerblock area are considered an area of potential concern. The transformers currently contain oil, which is documented to have less than 50 parts per million (ppm) polychlorinated biphenyls (PCBs). The transformers were reported to have contained PCBs before 1976. No records or reports of spills of oil from transformers were discovered, however, it is possible that spillage or releases of transformer oil could have occurred. Therefore, transformers at the site are considered an area of potential concern.”
- “Oil staining was observed on the floors of the powerblock around oil-containing equipment such as pumps and tanks. No records of soil sampling or spills in this area were discovered. Because the oil could have seeped through cracks in the concrete or through the pores in the concrete, it is possible that there may be contaminated soils beneath the powerblock area. As such, this is an area of potential concern that could possibly have future remediation liability.”
- “There are numerous underground pipelines located at ALGS. There is potential for leaks in the pipelines to create areas of contaminated soil. These conditions are considered an area of potential concern.”

EMS was provided with tables, figures and appendices of CH2M Hill’s 1997 Phase II ESA. Based on review of this partial document, existing soil boring and test pit data was available to CH2M Hill for the former ASTs on the current Tom Dean property, the eastern ASTs of the current Plains America property and adjacent property east of these ASTs. CH2M Hill Phase II soil and groundwater sampling locations were spread across other portions of the site including the six power units, UST area located on the eastern portion of the site near the current electric shop and South Retention Basin, transformer areas, cooling water intake units, pump and other areas of potential concern. A Summary of Investigated Site Features (CH2M Hill Table 1) indicated detectable levels of total petroleum hydrocarbons as diesel (TPH-D), volatile organic compounds (VOCs), California Assessment Manual Metals (CAM Metals) and TPH as gasoline (TPH-G) on portions of the site; however, CH2M Hill Table 1 indicated most constituents were detected at de minimis concentrations and in most cases recommended “no further action at this

time” and “agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.” TPH-D, VOCs, CAM Metals, PCBs and semi-volatile organic compounds (SVOCs) were also detected off-site in a “Dredged Materials Area” east of the Plains America ASTs. CH2M Hill recommended additional evaluation of this area.

EMS previously reviewed 2009 and 2010 annual groundwater monitoring reports prepared for the site on behalf of SCE. Groundwater is present below the site at depths ranging from approximately 10 to 20 feet. The groundwater gradient is relatively flat and reportedly flows to the east toward a depression in the groundwater elevation located at the South Retention Basin. The groundwater sampling program is divided into areas including the North Basin, Central Basin, Boiler Chemical Cleaning Basin and the South Basin. Detected chemicals of concern include several CAM Metals, several VOCs including PCE, TCE, 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1-dichloroethane (1,1-DCA), vinyl chloride (VC) and toluene, and the SVOC 1,4-dioxane. Most VOCs concentrations were below laboratory detection limits or relatively low; however, the highest VOC concentration detected during December 2010 was cis-1,2-DCE, detected at 150 micrograms per liter ( $\mu\text{g/L}$ ) in well AW-20, located east of the Central Basin. 1,4-dioxane was also detected at a concentration of 110  $\mu\text{g/L}$  in well AW-25, located south of the Boiler Chemical Cleaning Basin. Figure 12, depicting 1,4-dioxane concentrations during December 2010, is included in Appendix J.

Following EMS’ interview with Mr. Weidner and Mr. Hamilton (see Section 2.3.5) EMS was also provided with the following earlier reports:

- *Hydrogeologic Assessment Report, Alamitos Generating Station, Report prepared for Southern California Edison, Dames and Moore, January 27, 1986; and,*
- *Well Construction Report, Alamitos Generating Station, Report prepared for Southern California Edison, Hamilton, P., April 18, 1997.*

The Dames and Moore investigation included advancement and sampling of five borings, four near the Boiler Chemical Cleaning Basin and one up-gradient of this basin. Three borings were converted to groundwater monitoring wells. The Dames and Moore report concluded that no definitive evidence of leakage from the basin was detected; however, gasoline was detected in one boring. The source was believed to be a nearby UST. SCE reportedly investigated this UST further.

The Hamilton well installation report documents installation of nine additional groundwater monitoring wells at the site. Composite soil samples were collected for chemical analyses. This report also noted that the groundwater gradient at the site is controlled by an extraction well operated by the Los Angeles County Flood Control District as part of a barrier project. The DTSC also noted deterioration of the basin liner and requested soil sample collection and analysis from below the Central Basin liner. Elevated levels of nickel vanadium and TCE were reported.

The 2011 and 2013 Annual Groundwater Monitoring Report showed a groundwater gradient with an eastern flow keeping it consistent with previous annual reports. Concentrations of molybdenum and selenium increased in the wells near the North Basin; arsenic, cadmium and

molybdenum concentrations increased in the Boiler Chemical Cleaning Basin; and, cadmium, nickel and zinc concentrations increased in the South Basin. The other chemicals of concern at the site were generally consistent with the previous annual reports. The overall groundwater elevation has increased slightly since 2010. Figure 3, depicting basin and well locations, and Figures 4 through 7, depicting groundwater gradients during 2011, are included in Appendix J.

During this investigation, Mr. Weidner with SCE indicated that soil matrix sampling along the pipelines is in the early data collection phase; however, results would not likely be available for months (see Section 2.3.5). On July 1, 2015, EMS visited the offices of the DTSC in Chatsworth, California to perform a file review concerning available environmental reports concerning the Site. A discussion of the contents of those reports, including the results of soil matrix sampling, is provided in Section 2.3.5.

EMS' review of previous reports identified evidence of *Recognized Environmental Conditions* in connection with the site including documented soil and groundwater contamination existing prior to AES' operation of the site. Additional information regarding these issues is included in Section 2.3.5.

### **2.3.5 Additional Record Sources**

EMS searched the following regulatory agency websites for any additional information for the AES Alamosa plant: EPA's Envirofacts; DTSC's EnviroStor; SWRCB's GeoTracker; and the AQMD's FINDS websites. The EPA Envirofacts searched returned numerous records for the site. A detailed review and summary of all the records identified by Envirofacts for the site is not within the scope of this investigation. The site was not listed on the GeoTracker website.

The DTSC's EnviroStor website included information pertaining to the ongoing SCE investigation noted above. This included 2009 and 2010 annual groundwater monitoring reports for the facility. The EnviroStor website also included a 1995 *Final Judgment Pursuant to Stipulation* between the DTSC and SCE related to violations of the Health and Safety Code related to SCE operations at the site. SCE agreed to pay the DTSC a total of \$950,000.00 in civil penalties and reimburse the DTSC's costs in the amount of \$300,000.00 within 30 days of the effective date of the Stipulation.

The EnviroStor website also included two documents pertaining to the ASTs located on the Tom Dean property. On September 1, 2006, Mr. Tom Dean representing Studebaker LB LLC entered into a Corrective Action Consent Agreement with the DTSC to remove and investigate four large ASTs formerly associated with the site. This agreement indicates AES purchased the SCE power plant on May 18, 1998 and sold the central portion of the former SCE property including four ASTs to Studebaker LB LLC on December 5, 2002. The second document was an August 27, 2007 DTSC letter to Tom Dean approving a RCRA Facility Investigation Work Plan. An updated Corrective Action Consent Agreement was entered into by Loynes Beach Partners, LLC (Loynes) and the DTSC in February of 2014. In this updated Corrective Action Consent Agreement Loynes is listed as the new owner/operator of the former AST area of the site.

During the performance of this Phase I ESA, the DTSC's EnviroStor website indicated an annual groundwater monitoring report was either completed or due on October 10, 2012; however, an electronic copy of the report was not available. The DTSC issued a letter to SCE dated January

31, 2012 in response to the DTSC's review of SCE's September 2011 draft *Closure Documentation Report*. The DTSC's letter indicated the draft report was technically complete (see Appendix J). An additional letter was available on the DTSC's EnviroStor website stating that the 3<sup>rd</sup> Quarter Groundwater Monitoring Evaluation Report had been submitted, reviewed and approved by the DTSC. A copy of the 3<sup>rd</sup> Quarter Groundwater Monitoring Evaluation Report was not available on the DTSC's EnviroStor website. No additional information or reports were available from the DTSC's EnviroStor website.

On July 1, 2015, EMS visited the offices of the DTSC in Chatsworth, California to perform a file review concerning available environmental reports concerning the Site. EMS reviewed a report concerning a Soil Investigation Work Plan for the Pipelines and Retention Basins dated July 2012 by SCE. The report proposed soil borings to characterize possible leakage from underground pipelines to the retention basin from wastewater generated from drains at the steam generating units, of floor drains at steam drop drains, boiler acid wash drains, fireside wash drains and boiler blowdown drains. The work plan proposed 93 borings with soil samples at 50 foot intervals along the pipelines. The work plan also proposed a soil vapor survey around each of the 4 retention ponds with soil vapor probes placed at 50 foot spacing around the perimeter of the basins and at 25 foot spacing around the north and east side of the Central Basin. The probes were recommended to be installed at 5 and 10 foot depths.

Also reviewed at the DTSC offices was a Sampling and Analysis Plan for the Wastewater Basin Closure Project, dated January 2013 by SCE. The plan updated a previous plan from August 2000 adding new wells and 1,4-Dioxane analyses for all water samples. The plan discussed using 45 monitoring wells, of which 40 would be sampled for chemical analyses and 5 would be used for water level gauging only.

A Soil Vapor Survey Report for the Retention Basins dated May 2013 was also reviewed. The report was commissioned by SCE and was prepared by Tetra Tech Inc., and Jamison and Associates, Inc. Maps depicting results of the shallow soil vapor survey are presented in Appendix J of this report. The soil vapor survey concluded that several small soil vapor plumes existed at the Site, particularly along the north side of the Central Basin. The report concluded that the soil vapor plumes were fully delineated. Some step out sampling at 12.5 foot spacing was performed above what was originally proposed in the Soil Investigation Work Plan in order to fully delineate the plumes. A total of 120 soil vapor probes were installed and results were found to be lower than screening criteria that were developed for the project. The screening criteria were based on residential health risk levels for indoor air of detected compounds compared to an attenuation factor of 0.001 applied to the soil gas result. The report concluded that no further action was warranted based on the results of the soil vapor survey.

A final Soil Characterization Report, dated November 2014 by SCE was also reviewed at the DTSC offices in Chatsworth, California. The report described the results of laboratory testing of soil samples and summary tables of laboratory results are included in Appendix J of this report. The report describes that 355 soil samples from 119 borings were collected by hand auger and analyzed for volatile organic compounds and metals from the area around the Retention Basins along with 52 background soil samples from 18 borings. Along pipelines, 122 borings and 233 soil samples were collected and analyzed for the same constituents plus total petroleum hydrocarbons and dioxin/furans for samples collected adjacent to the traps and sumps. The

report conclusions were based on the analyses of 688 total soil samples and described a complete soil characterization in the view of SCE, stating “soil below the Central Basin has been impacted by a release of wastewater and the impacted soil is confined to the basin footprint. No further soil characterization is required for the Site”.

The AQMD’s FINDS search returned numerous records and permits pertaining to various equipment operated at the site including boilers, turbines, storage tanks, etc. It appears a number of permit applications were cancelled in December 2014 for an Oil/Water Separator, Storage Tank Ammonia, Turbine Engine and Selective Catalytic Reduction based on the applications being incomplete. The AQMD FINDS search listed one “Spray Booth Paint and Solvent” permit issued to the site on March 3, 1998. The permit is listed as inactive. The AQMD’s FINDS search also returned five Notice of Violation (NOVs) records and 14 Notice to Comply (NOC) records for the site from 2000 to 2012. Four NOVs were listed as “Closed Case” and all NOCs were listed as “In Compliance”. The remaining NOV, dated May 31, 2012, was for submitting an “inaccurate QCER (1<sup>st</sup> quarter) and APEP in the 2011 compliance year. Copies of the AQMD FINDS search results are included in Appendix J.

EMS submitted a request to the LBFD for files pertaining to USTs and hazardous materials use and storage for the site address. The LBFD responded on May 26, 2015 that files were available for the address. Additionally EMS submitted a request to LBDHHS requesting to review any records, reports, inspections or any other documents pertaining to environmental issues at this facility. The LBDHHS responded in a letter dated May 22, 2015 that files were available. EMS visited the LBFD and LBDHHS on June 4, 2015 and reviewed the available files. The files at the LBFD primarily consisted of AST and UST inspection and closure reports. The files provided by LBDHHS were primarily annual hazardous waste generator inspection reports and annual AES Business Emergency Plan and Hazardous Emergency Chemical inventory inspections. One file titled “*Underground Tank Program Tracking System*” identified the presence at the site of one 550 gallon waste oil tank, one 6,000 gallon diesel tank and one 6,000 gallon gasoline tank that were installed in 1986. The tanks were described as dual walled fiberglass and the file stated that they were removed in April 2003. A closure letter dated May 13, 2003 from the Long Beach/Signal Hill Joint Powers Agency addressed to AES Environmental Coordinator, Mr. Steve Maghy, confirms the satisfactory removal of the three tanks and issues a “no further action” statement. A copy of the letter and local agency requests are presented in Appendix J.

According to the DOGGR Online Mapping System (DOMS) there are no wells located on the site. One plugged well is located approximately 900 feet southwest of the site. Numerous additional wells were identified to the west and southwest of the property more than 1/4 of a mile away.

During the development of a previous Phase I Report, on January 23, 2012 EMS met with Randy Weidner, CEG, with SCE and Patrick Hamilton, CEG. Mr. Hamilton at the time had been with SCE since 1969. Mr. Weidner and Mr. Hamilton provided EMS with the following general information regarding the site and SCE power plant operations in general. SCE’s pipeline division, EPTC, originally sold the large fuel oil ASTs and pipelines to Pacific Terminal, now named Plaines America. As a common practice, No. 6 fuel oil was used to coat the lower portion of ASTs. Investigations of the retention basins generally began around 1995-96. Much

of the initial soil investigation work that has been performed at the Alamitos site has not yet been provided to the DTSC in a completed report. EMS was also informed that no extensive investigation of the fuel oil pipe lines has been performed. Chemicals of concern in soil and/or groundwater generally included metals, VOCs and 1,4-dioxane. Vanadium is the indicator metal for the boiler cleaning chemicals previously used at the plants. Other metals including nickel and arsenic are also a concern. EMS was informed that some nickel detected between the basins and the San Gabriel River channel may be from dredged materials and that sumps are located between the former auto shop (now electric shop) and channel.

EMS was informed that the initial investigation of the Alamitos retention basins included advancing soil borings within the footprint of the basins followed by groundwater investigations. A soil gas survey indicated a VOC plume between Central and North Retention Basins and there also may be a VOC source related to the Unit 3 and 4 Powerblock. Additional soil and soil gas sampling was to be performed as part of closure activities and a comprehensive soil report was to be prepared for submittal to the DTSC. A final soil vapor survey report was submitted to DTSC in May 2013 and a final soil characterization report was submitted to DTSC in November 2014. A review of those reports was discussed earlier in this section of this report. EMS was informed that a trash dump is located in the southern portion of South Retention Basin that includes some asbestos waste.

EMS requested copies of available environmental reports for the site. Since there are extensive quarterly and annual groundwater monitoring reports, and EMS already obtained copies of the most recent annual groundwater monitoring reports, EMS requested copies of early soil investigation and groundwater monitoring well installation reports. EMS was later provided with the 1986 and 1997 reports noted in Section 2.3.4.

EMS also mentioned the number of USTs identified for the site and requested any information SCE has that could reconcile the total number of USTs that were present and removed from the site. Mr. Weidner informed EMS he was aware that clarifiers and sumps were classified as "USTs" in the past. Mr. Weidner later informed EMS that it may require weeks to track down the UST information, if he could even still find it; therefore, this information is not reasonably ascertainable.

During EMS previous investigation Mr. Weidner of SCE was contacted by e-mail regarding the availability of additional environmental reports and the status of additional site investigation activities. Mr. Weidner indicated that the majority of the soil and soil vapor investigation work had been completed and he anticipated this work would be completed by the end of January 2013. Mr. Weidner indicated formal reports would likely not be available for several months. Mr. Weidner also indicated that his perception is that the soil vapor plume previously identified to the north of the Central Basin is pretty limited in extent and significantly degraded. Also, in the process of investigating soil vapor around the basins, SCE may have detected some residual gasoline from the removed USTs adjacent to the Electrical Building (former garage). Mr. Weidner also indicated that soil matrix sampling along the pipelines is in the early data collection phase; however, results would not likely be available for months. No additional information was supplied by AES to EMS regarding this work. A final soil vapor survey report was submitted to DTSC in May 2013 and a final soil characterization report was submitted to DTSC in November 2014.

### **2.3.6 ASTM E 1527-13 User Questionnaire**

Mr. Tracy Powell, Environmental Engineer, AES Southland provided EMS with an ASTM E 1527-13 User Questionnaire for the site on June 5, 2015. Mr. Powell was aware of an environmental cleanup lien against the Site and noted it as a “1995 Consent Decree from DTSC for SCE. As AES is the current owner and operator of the site, Mr. Powell indicated that AES has specialized knowledge including prior site use, chemical use, chemical releases, cleanups and investigations. A copy of the completed ASTM E 1527-13 User Questionnaire is included in Appendix K.

### **2.4 Information from Site Reconnaissance and Interviews**

Mr. Flores of EMS visited the site on June 5, 2015 to conduct the site inspection. Mr. Powell the Environmental Engineer for AES Southland escorted EMS throughout the site and provided a short overview of site operations and policies. Mr. Powell indicated that he has been Environmental Engineer for AES Southland for approximately 1.5 years and that chemical use has remained relatively consistent since the previous Phase I performed by EMS which stated that use has not changed significantly since AES began operation in 1998.

Seeing as the processes at the facility have not changed, EMS reviewed select plans and tables acquired during the November 10, 2011 site reconnaissance. Select plans and tables for the purpose of describing site facilities and operations are presented in Appendix L. These include the following:

- AES Alamos Facility Site Plan (General Site Map);
- Unit 1 and 2 Drains Map;
- Unit 1 and 2 Lube Oil Storage and Capacities;
- Unit 3 and 4 Drains Map;
- Unit 3 and 4 Lube Oil Storage and Capacities;
- Unit 5 and 6 Drains Map;
- Unit 5 and 6 Lube Oil Storage and Capacities; and,
- List of Tanks and Equipment Containing Petroleum Products.

The site consists of six natural-gas fueled electrical power plant units operated by AES since 1998. The units are located on the site in pairs (see Photograph 1). Natural gas is piped onto the facility via above and underground pipelines. Prior to AES operation, SCE operated the facility utilizing natural gas and fuel oil. Fuel oil was piped onto the site and stored in large ASTs that are no longer a part of the site (see Photograph 2). Fuel oil pipelines remain on portions of the site. The western portion of the former AST area is currently owned by Studebaker LB LLC (Tom Dean property) while the eastern portion is now owned by AES (see Photograph 3). Each unit is comprised of a control room, boiler, turbine and other support facilities including transformers, aqueous ammonia tanks (see Photograph 4), oil-water separator and associated surface water drainage system. Aqueous ammonia is utilized as a reductant in the Selective Catalytic Reduction (SCR) process to reduce NOX emissions.

A previous Phase I performed by EMS indicated that the former large fuel oil ASTs, associated

pipe lines and fuel-oil pumping facilities were sold by SCE to Plains America. The land underneath the remaining fuel-oil ASTs was also sold to Plains America; however, pipelines remain on the site. The land and central ASTs were later sold by Plains America to Tom Dean. According to Mr. Powell the Tom Dean property was purchased by AES and divided into two, with the western portion deeded back to Studebaker LB LLC.

EMS was informed during a previous visit that there are two systems for surface water drainage. One system is for normal surface water runoff (see Photograph 5) identified by blue and white markings while the second is for “oily waste” (see Photograph 6) identified by brown and white markings. EMS was informed that activities that may result in the release of oily waste are performed near these drains. Oily waste is directed to oil-water separators, sumps and retention basins for proper disposal.

The facility uses and stores petroleum products including lube oils, gear oils and transformer mineral oils. Various new and used lube oils were observed in 55-gallon drums for use at the site. New and used lube oil is also stored in bulk on the eastern portion of the site between the Center Retention Basin and the out-of-service Acid Bath Basins (see Photographs 7).

Other chemicals used and stored at the facility include 13% sodium hypochloride, hydrogen in “bullet tanks” (see Photograph 8), compressed nitrogen, caustics and sulphuric acid, and several water tanks to service the boilers and for fire-fighting purposes (see Photograph 9). EMS noted the one UST on the site used to store aqueous ammonia for Units 5 and 6 (see Photograph 10). One large AST previously utilized to store jet fuel remains on the site (see Photograph 11). This AST was used to fuel jet engines formerly located in the Unit 7 Peaker building; however, these jet engines were removed from the site. Mr. Linares stated the tank is no longer used but may contain residual fuel and water. Jet fuel was transferred from the tank to the Unit 7 Peaker building via underground pipelines. Mr. Powell was unaware of any subsurface investigations of the tank or the pipelines in this area.

Mr. Powell confirmed to EMS that AES must further treat city supplied water before use in generating power at the facility. Mr. Powell stated AES used to perform this task; however, this is now performed by an outside contractor, Ionics Ultrapure Water Corporation (Ionics, see Photograph 12). Ionics utilizes reverse osmosis technology to purify city water. The Ionics trailer is located north of the acid and caustics tanks which are currently out-of-service (see Photograph 13). Several other facilities are out-of-service as the plant no longer utilizes fuel oil and other operational changes.

Two channels provide cooling water to the power units. The northern channel provides cooling water to Units 1 through 4 and a southern channel provides cooling water to Units 5 and 6 (see Photograph 14). Intake water is screened for trash and debris prior to entering the units (see Photograph 15). While walking near this area EMS noted a large hazardous waste bin containing asbestos. Mr. Powell was unsure of where the asbestos had come from but stated it was likely removed during maintenance performed at the Site (see Photograph 16). EMS was informed by Mr. Powell that asbestos is removed at the Site when projects are performed in areas that contain asbestos.

Mr. Powell stated that the facility currently has two wastewater retention basins but only one is

being used as the central basin has been taken out of service due to a liner failure. The site also operates one sewage waste treatment plant. SCE, under direction of the DTSC, is currently conducting subsurface investigations related to SCE's former operation of the retention basins. Several groundwater monitoring wells were noted in this area (see Photograph 17). The facility has three outfalls, one for each of the six paired units that discharge to the San Gabriel River.

On the eastern portion of the Site EMS noted a covered parking area which contained a number of vehicles. Mr. Powell informed EMS that some of the employees at AES are allowed to keep their personal boats parked under the covered parking as long as they are permitted (see Photograph 18). Attached to this parking area is a building which according to Mr. Powell was used for storage but is now currently empty. Next to this building was an outdoor storage area which appeared to have old insulation stored in it (see Photograph 19). Mr. Powell was unsure how or why this insulation was stored in this area.

The facility also includes administration buildings, warehouses, a compressor house, an electric shop and maintenance shop. EMS walked through two of the warehouses on the Site. One of the warehouses was located by the administration building on the northern portion of the Site while the other warehouse was located to the south of Units 1 through 4. Both warehouses were being used for storage of equipment and housekeeping in both was very good (see Photographs 18 and 19). The electric shop and maintenance shop appeared to be relatively clean with good housekeeping practices. According to documents reviewed by EMS, SCE had operated an automotive shop with a spray booth but Mr. Powell did not have any knowledge regarding its exact location. The automotive shop was located at the current location of the electric shop. In general, housekeeping in the areas of chemical use and storage appeared very good.

#### **2.4.1 Hazardous Substances in Connection with Identified Uses**

Chemicals including petroleum-based lube oils, transformer mineral oil, aqueous ammonia, sodium hypochloride, compressed hydrogen, compressed nitrogen, caustics, sulphuric acid and various cleaners and maintenance chemicals were noted at the facility. EMS did not observe any significant instances of the misuse or improper storage of chemicals or poor housekeeping; therefore, the current use of non-hazardous and hazardous substances is not an environmental concern with the following exception; PCE, TCE and TCA are apparently used at the site. These halogenated solvents, and their breakdown products, have been detected in groundwater underlying the site.

#### **2.4.2 Other Hazardous Substances and Unidentified Substance Containers**

There were no hazardous substances (not in connection with identified uses) or unidentified substance containers observed on-site during the site inspection.

#### **2.4.3 Storage Tanks**

Numerous storage tanks were noted at the site including one 20,000-gallon UST for storing aqueous ammonia. Several large ASTs were observed on-site during the site inspection for the storage of aqueous ammonia, sodium hypochloride and water. One large AST reportedly stored jet fuel but is no longer in use (see Photograph 11). This AST reportedly contains residual jet fuel and is planned to be cleaned and undergo demolition.

#### **2.4.4 Indications of Polychlorinated Biphenyls (PCBs)**

Several electrical transformers were observed on-site associated with the power generation units. Information provided in previous reports indicated the transformers utilize non-PCB containing mineral oil. PCBs were detected within wastewater contained in the North Retention Basin during 2012. The wastewater was removed, the solids filtered, separated and stored in bins for subsequent disposal as hazardous material.

#### **2.4.5 Indications of Solid Waste Disposal**

There were no noted concerns regarding on-site solid waste disposal during the site inspection, with the exception of a large waste bin containing asbestos. EMS was informed by Mr. Powell that the waste bin would be removed soon.

#### **2.4.6 Physical Setting Analysis, if Migrating Substances are an Issue**

There were no instances of off-site sources of groundwater contamination that are currently likely to have impacted the site based on available regulatory information and recent groundwater flow; however, the site is located in an area documented to have had commercial and industrial activities dating back several decades. The possibility exists that nearby historical activities and previous groundwater flow directions could have caused off-site migration onto the site in the past.

#### **2.4.7 Indications of Asbestos Containing Material (ACM)**

Site buildings were originally constructed prior to 1980; therefore, ACM may be present in building materials such as floor tile, ceiling tile, wall-board, grout, pipe and equipment insulation, etc. EMS was previously informed that SCE had performed comprehensive asbestos surveys and abatement activities in the 1970s and 1980s. EMS was also informed during previous Phase I Reports that numerous asbestos surveys and abatement reports exist; however, there was no report that summarized past work and remaining ACM at the site. EMS was also informed that known materials that have had ACM removed and replaced with non-ACM, such as the above-ground steam piping present throughout the facility, is identified by blue strapping and “asbestos free” notification. Mr. Powell informed EMS that asbestos is removed throughout the Site when projects are performed in areas that are known to contain ACM. According to Mr. Powell approximately 58,004 and 83,164 pounds of asbestos were removed in 2013 and 2014.

#### **2.4.8 Radon Accumulation Potential**

The National Radon Database has been developed by the EPA and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The EPA has established the following three zone classifications for radon:

Zone 1 indoor average level > 4 picocuries per liter (pCi/L),

Zone 2 indoor average level  $\geq 2$  pCi/L and  $\leq 4$  pCi/L,

Zone 3 indoor average level < 2 pCi/L,

The EDR *Geocheck*<sup>®</sup> report contains radon information for Los Angeles County (Appendix B). The EPA Radon Zone for Los Angeles County is Zone 2 (indoor average level  $\geq 2$  pCi/L and  $\leq 4$  pCi/L). The EPA recommended guideline for radon is 4.0 pCi/L. Federal radon information also indicates 98% of first floor living areas and 100 % of basements tested in Los

Angeles County area were below 4 pCi/L. Federal radon information listed the remaining 2% of first floor living areas ranged from 4-20 pCi/L. Second floor living areas were not reported.

The EDR report also contains data from a California State database for radon. This database indicates that of the 49 sites tested for radon within the 90803 Zip Code, no sites had radon levels greater than 4.0 pCi/L.

Because the site is a commercial/industrial facility, EMS noted no potential concerns with respect to radon at the site.

#### **2.4.9 Indications of Lead Based Paint**

The site buildings were constructed prior to 1980; therefore, lead based paint may be present in painted surfaces on the site.

### **3 Data Gaps**

EMS retained EDR to perform an environmental lien search for the site. Due to the multiple parcel numbers for the site, and in order to reduce costs, the lien search was not conducted for all of the site's parcel numbers. Due to the fact that the site has been an electrical power generating station for several decades, and future use of the site will not likely change in the foreseeable future, EMS feels the lack of a lien search for all parcel numbers does not significantly impact EMS' ability to identify *Recognized Environmental Conditions* at the site.

## 4 Findings and Conclusions

EMS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the AES Alamitos electrical power plant located at 690 North Studebaker Road, in the City of Long Beach, Los Angeles County, California. Any exception to, or deletions from, this practice are described in Section 3 of this report. The concerns noted during the performance of EMS' Previous Phase I ESAs in 2012 and 2013 still apply as of the date of this report. Additional information and concerns uncovered during this investigation are presented at the end of this section. EMS' Previous Phase I ESAs revealed no evidence of *Recognized Environmental Conditions*, *Historical Recognized Environmental Conditions*, *Controlled Recognized Environmental Conditions* or *De Minimis Conditions* in connection with the site with the following exceptions:

- Historical sources indicate the site may have been utilized for agriculture. Detectable levels of agricultural chemicals, such as fertilizers and pesticides, may be present in the subsurface. Generally these chemicals would not be detected at concentrations that would present an environmental concern to the site unless a specific facility existed where these chemicals were used or handled in a manner that would result in the accumulation of higher concentrations. No such facility was identified on historical use sources with the following exceptions: Small structures that appear to be farm houses and associated outbuildings were observed in the general area of Units 3 and 4 prior to construction of the power plant. In the event soil becomes exposed in this area due to decommissioning of Units 3 and 4, EMS recommends sampling soils in this area for agricultural chemicals.
- The site was previously fueled by petroleum fuel oil. Above-ground storage tanks (ASTs) previously and currently associated with the site are known to have impacted shallow soil with petroleum hydrocarbons. Two former AST areas are now part of the site along with above-ground and underground fuel oil pipelines. The presence of these former AST areas and pipelines represents a *Recognized Environmental Condition* in connection with the site.
- One large AST previously utilized to store jet fuel remains on the site. This was used to fuel jet engines formerly located in the Unit 7 Peaker building; however, these jet engines were removed from the site. The tank is no longer used but may contain residual fuel and water. Jet fuel was transferred from the tank to the Unit 7 Peaker building via underground pipelines. AES was unaware of any subsurface investigations of the tank or the pipelines in this area. The presence of this AST and associated pipelines represents a *Recognized Environmental Condition* in connection with the site.
- Groundwater underlying the site is known to be impacted by metals, volatile organic compounds (VOCs) and 1,4-dioxane. Groundwater is monitored as part of on-going subsurface investigations regarding former SCE operations at the site including former operation of wastewater retention basins. These investigations are currently overseen by the DTSC. The presence of groundwater contamination represents a *Recognized Environmental Condition* in connection with the site.

- EMS did not observe any significant instances of the misuse or improper storage of chemicals or poor housekeeping; therefore, the current chemical use of non-hazardous and hazardous substances is not an environmental concern with the following exception; perchloroethene (PCE, also referred to as tetrachloroethene), trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) were apparently used at the site. These halogenated solvents, and their breakdown products, have been detected in groundwater underlying the site. The previous use of these VOCs and their detections in groundwater represent a *Recognized Environmental Condition* in connection with the site.
- Several spills have been noted at the site. Most documented spills involved petroleum products and were immediately addressed and observed and/or reported to local agencies. Most of these spills appear to represent *De Minimis Conditions* in connection with the site. Oil spills were also reported in the pig launching area and a location where a pipeline crosses under the roadway near units #5 and #6. These spills were reported to have been cleaned up; however, some contamination was noted to remain due to limited access. Staining was also previously noted in the powerblock areas and associated with fuel-oil handling equipment. Although the site is currently powered by natural gas, it is reasonable to assume that historical operations have resulted in spills of fuel oil in various areas of the site. Even if cleanup was performed at the time of the spill, it is reasonable to assume that residual contamination exists and may not be revealed until equipment is decommissioned and removed. The former extensive use of fuel oil represents a *Recognized Environmental Condition* in connection with the site.
- Transformers are currently reported to use non-polychlorinated biphenyl (PCB) containing mineral oil; however, PCB containing oil was used in the past. The former use of PCB containing oil represents a *Recognized Environmental Condition* in connection with the site.
- One underground storage tank (UST) is currently present at the site to store ammonia. The UST is a 20,000-gallon, double-walled UST and includes a monitoring system. Based on this information, this UST does not appear to pose an environmental concern to the site. Three USTs, including a 550-gallon waste oil, 6,000-gallon diesel tank and 6,000-gallon gasoline tank were reportedly installed in 1986 and removed in April 2003. A closure letter dated May 13, 2003 from the Long Beach/Signal Hill Joint Powers Agency confirmed the satisfactory removal of the three tanks and issued a “no further action” statement. Based on this information, these three former USTs represent a *Historical Recognized Environmental Condition* in connection with the site.
- EDR’s Historical UST (HIST UST) listing identified over 25 HIST UST records for the site. The installation dates range from 1956 to 1982 and the contents are reported as unleaded product, product, waste oil and waste. Some records may be duplicate records or refer to waste contained in below-grade oil/water separators and/or clarifiers; however, a total of eleven are identified as containing product and two contain waste oil. The large number of additional records for USTs at the site without removal and closure documentation represents a *Recognized Environmental Condition* in connection with the site.

- One inactive permit for a “Spray Booth, Paint and Solvent” was identified for the site dated March 3, 1998. AES was aware that it was located near a maintenance shop but did not know an exact location of the former spray booth. The former use of a spray booth represents a *Recognized Environmental Condition* in connection with the site.
- EMS noted asbestos waste being stored onsite in a waste bin prior to its removal from the Site. The presence of asbestos waste on the Site represents a *Recognized Environmental Condition* in connection with the site.
- There were no instances of off-site sources of groundwater contamination that are currently likely to have impacted the site based on available regulatory information and recent groundwater flow; however, the site is located in an area documented to have had commercial and industrial activities dating back several decades. The possibility exists that nearby historical activities and previous groundwater flow directions could have caused off-site migration onto the site in the past. Adjacent properties known or suspected of containing soil contamination include the adjacent ASTs formally associated with the site and now owned by Plains America and Tom Dean, the former hazardous waste site located at Loynes Drive and Studebaker Road to the northwest and the Dredged Materials Area south of the site and east of the Plains America ASTs. The contamination on these adjacent properties represents a *Recognized Environmental Condition* in connection with the site.
- Recent sampling performed in 2012 detected PCBs within wastewater contained in the North Retention Basin. The wastewater was removed, the solids filtered, separated and stored in bins for subsequent disposal as hazardous material. EMS was informed the PCBs were believed to have originated in contaminated oil from the Unit 7 Peaker unit. The presence of PCBs within wastewater represents a *Recognized Environmental Condition* in connection with the site.
- Elevated levels of nickel were detected in well AW-33 near the Central Retention Basin. AES personnel was unsure of the source of the nickel, but indicated the source may be a corroded transfer line leading from the North Retention Basin that was found to be leaking. This pipeline was cut and replaced. EMS was previously informed that some nickel detected between the basins and the San Gabriel River channel may be from dredged materials. The elevated levels of nickel in well AW-33 may also be the result of these materials and a rising groundwater elevation. The presence of elevated levels of metals in well AW-33 represents a *Recognized Environmental Condition* in connection with the site.
- The discovery of damaged, leaking pipelines noted above, including pipelines that could potentially transport materials such as the PCB contaminated wastewater also noted above, represents a *Recognized Environmental Condition* in connection with the site.
- EMS was previously informed by SCE that the majority of additional soil and soil vapor investigation work, including soil matrix sampling along the fuel-oil pipelines, has been completed and that all work was reported by November 2014. EMS was able to review

these reports. EMS was informed by SCE that the soil vapor plume previously identified north of the Central Basin appears limited in extent and significantly degraded, and that residual gasoline from the removed USTs was detected adjacent to the electrical building (former auto shop). EMS' review of the final Soil Characterization Report and Soil Vapor Survey Report indicates that the soil below the Central Basin has been impacted by a release of wastewater and the impacted soil is confined to the basin footprint. EMS believes the confirmed soil contamination along the Central Basin represents a *Recognized Environmental Condition* in connection with the site.

Although not considered *Recognized Environmental Conditions* as defined by the EPA AAI rule and ASTM E 1527-13, EMS also noted the following potential environmental concerns and issues:

- The site buildings were constructed prior to 1980; therefore, asbestos-containing building materials and lead based paint may be present on-site.
- The presence of VOCs in soil and groundwater underlying the site represents a potential vapor intrusion issue in connection with the site.
- The presence of insulation material haphazardly stored in a covered outdoor area of the Site may impact stormwater runoff.

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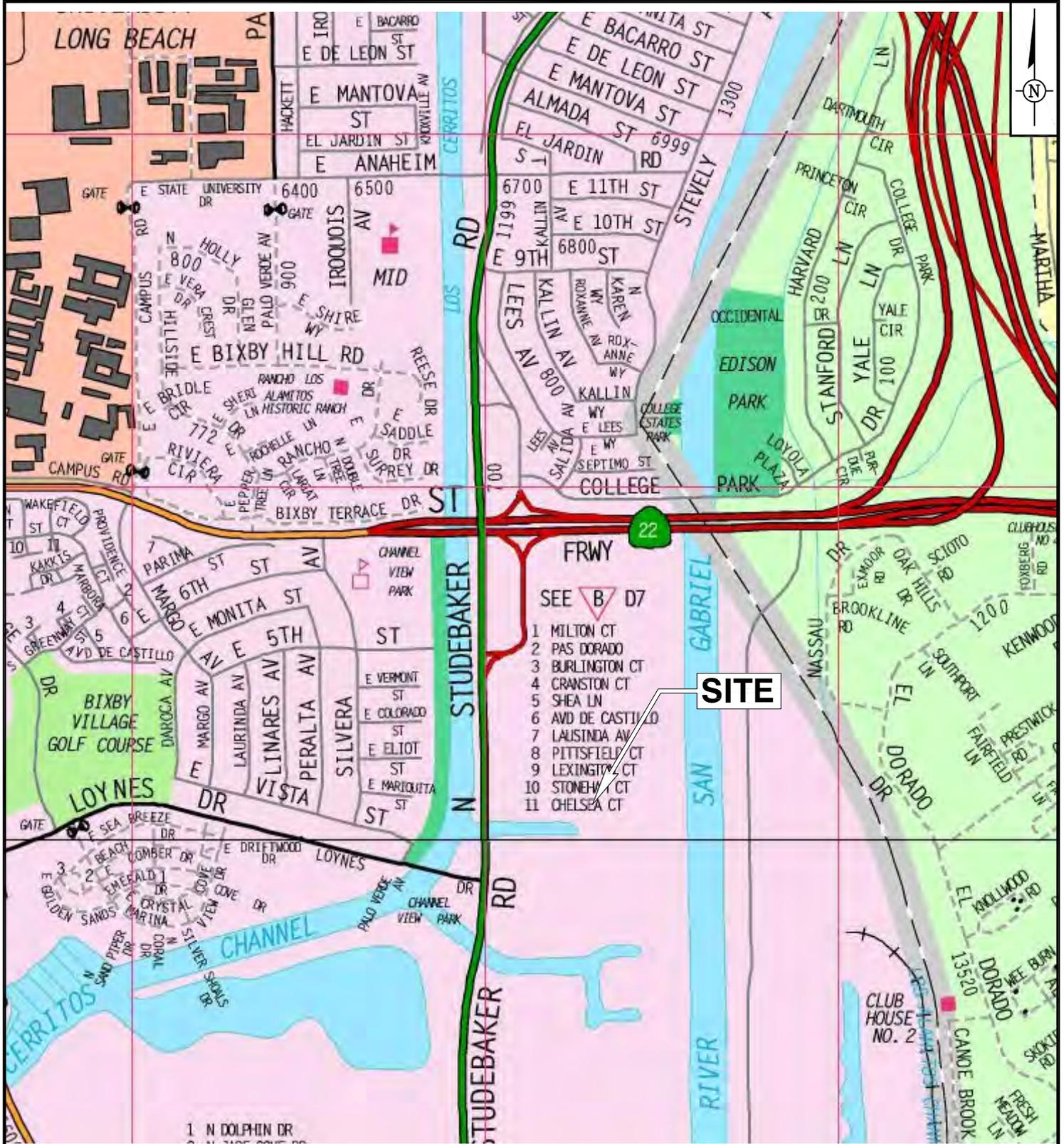
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## **FIGURES**



Map Source: Thomas Guide

NOT TO SCALE		<b>SITE LOCATION MAP</b> AES Alamitos Plant 690 North Studebaker Road Long Beach, California	
Project Number <b>EMS514</b>		Phase I Environmental Site Assessment	
Project Manager <b>MJ</b>	Drafter <b>VM</b>	ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.	
Date <b>12/20/2012</b>		Financially Based, Environmental Solutions	
		Figure <b>1</b>	



EXPLANATION

----- SITE PROPERTY LINE (APPROXIMATE)

NOT TO SCALE

**SITE MAP**  
 AES Alamos Plant  
 690 North Studebaker Rd.  
 Long Beach, California

Project Number  
**EMS514**

Phase I Environmental Site Assessment

Project Manager    Drafter  
**AS                      AF**

**ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.**  
*Financially Based, Environmental Solutions*

Date  
**06/17/2015**

Figure  
**2**

## **PHOTOGRAPHS**

Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 1: Power plant units.



Photograph 2: Above-ground tanks on Plains America property.



Photograph 3: Former above-ground storage tank area now owned by AES.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

Photograph 4: Aqueous ammonia tank.



Photograph 5: Normal storm water runoff drain.



Photograph 6: Oily waste drain location.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 7: New and used lube oil bulk storage.



Photograph 8: Hydrogen in “bullet tanks”.



Photograph 9: Water tanks.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 10: Underground aqueous ammonia storage tank for Units 5 and 6.



Photograph 11: Former jet fuel aboveground storage tank used for Unit 7 Peaker



Photograph 12: Ionics Ultrapure Water Corporation.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 13: Out-of-service acid and caustics tanks.



Photograph 14: Intake channel.



Photograph 15: Screen for intake channel to Units 5 and 6.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 16: Hazardous waste bin containing asbestos.



Photograph 17: Groundwater monitoring well AW-30 located near the Central Basin.



Photograph 18: Covered parking used for personal boat storage.



Client: AES  
Property Name:  
Property Location:

Project Number: EMS514  
AES Alamitos  
690 North Studebaker Road  
Long Beach, CA

# EMS

ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.

Photograph 19: Insulation stored in outdoor storage area.



Photograph 20: Warehouse south of Units 1 through 4.



Photograph 21: Warehouse near administration building.



**APPENDIX A**

**QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**

***Anthony F. Severini, P.G.***

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***Position in the Firm***

Mr. Severini is the President and Owner of Environmental Management Strategies, Inc., headquartered in Irvine, California. Mr. Severini specializes in the fields of damage assessment and cost recovery of environmental remediation, PRP cost assessment and allocation, environmental contractor dispute resolution, the transfer sale and/or divestiture of environmentally impaired property, regulatory dispute resolution, environmental insurance claims and protection, and strategic environmental planning.

Mr. Severini is a licensed Geologist in eight states including California. His 30 years of experience is based upon environmental work performed on over 2000 sites spanning 44 states in the US. Mr. Severini, who is considered one of the top hydrogeologists in Southern California, brings an understanding of complex environmental issues along with business acumen of key financial impacts of environmental damage to assist law firms, industry, insurance companies, lenders and property owners in environmental litigation and cost allocation of environmental pollution.

***Professional Experience***

Mr. Severini provides expert witness testimony for environmental litigation on sites involving soil and ground-water contamination, environmental stigma, cost allocation, NCP applicability and financial damage assessment. He has both testified and provided expert opinions on numerous court cases involving CERCLA claims, toxic torts, and PRP cost allocation. Additionally, he has provided testimony under direct and cross examination and has provided thousands of pages of deposition testimony. Because of his strong environmental background, numerous cases have been settled immediately after Mr. Severini's delivery of an expert report.

Mr. Severini has directed or overseen environmental investigations on sites involving manufacturing, aerospace, chemical storage, manufactured gas plant, automotive assembly, petroleum storage, petroleum refining, landfill / disposal, multiple PRP groundwater plumes, site demolition, and facility decommissioning.

Mr. Severini's areas of environmental technical skills include hydrogeology, geology, geochemistry, property conveyance, ground-water monitoring systems, site assessments, site remediation, environmental audits, vacuum extraction, ground-water remediation, biodegradation, and regulatory negotiation. Mr. Severini is one of the nation's leading consultants on environmental investigations related to due diligence and property transfer, purchasing, and financing, having managed and directed investigations on more than 2000 properties totaling more than \$35 billion in real estate value.

Mr. Severini's experience includes assessing aquifer properties, quantifying ground-water flow, determining the extent of ground-water contamination, and ground-water and contaminant

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**ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.**

***Financially Based,***  
16510 Aston St.  
Tel 949.679.9500



***Environmental Solutions***  
Irvine, CA 92606  
Fax 949.679.9501

[www.goemsinc.com](http://www.goemsinc.com)

modeling in saturated and unsaturated soils. Mr. Severini has experience in interpreting hydrogeologic and geochemical data; estimating hydrogeologic properties of aquifers; and determining ground-water flow paths and travel time. He has worked on ground-water models including data synthesis, developing and calibrating two- and three-dimensional finite-element and finite-difference flow models, sensitivity analysis of input parameters, predictive modeling of contaminant transport, and performance modeling of proposed containment systems. He is also a professional in "forensic-type" analyses for determining unknown sources for contaminant plumes and has received corporate quality awards for excellence in hydrology.

### *Summary of Related Project Experience*

The following is a brief description of a sampling of Mr. Severini's experience on environmentally impaired sites.

- Mr. Severini was the former National Environmental Practice Leader for KPMG's Forensic and Litigation Services Practice. In this capacity, Mr. Severini directed a team of insurance, real estate and engineering professionals in the development of exit strategies for clients with environmentally impaired properties. These exit strategies included the procurement of environmental insurance products, the cleanup of potentially hazardous chemical constituents in the soil and ground water, and the assessment of real estate value based on impaired and unimpaired conditions.
- Consulted on the procurement of remediation cost cap insurance and third party liability insurance products for a \$150 M commercial development in Irvine, California. The site was impaired by two off-site sources of ground-water contamination and the owner wanted to sell an equity interest to an institutional investor. Our staff developed all the necessary environmental due diligence information, coordinated the transfer of data between the insurance broker and insurance carrier, and reviewed sample policies and draft policies during the procurement phase.
- Directed the analysis of potential exit strategies for a \$22 M commercial development in Milpitas, California. The site was impaired by on-site and off-site sources of ground-water contamination. Three exit strategies were selected which included a combination of on-site remediation and insurance products in lieu of indemnifications. The property is currently in remediation stages and will be placed on the market for sale once insurance products are procured.
- Directed the remediation of 240 acres of a former oil production area in Huntington Beach, California. Over 100,000 cubic yards of soil contaminated with petroleum products, arsenic, metals and reduced sulfur compounds were remediated for development of the site for residential housing. Directed the recycling, treatment and disposal of contaminated soil from leaking oil field production wells, methane and odor measurements and abatement, oil storage tanks, oil field sumps, refining facilities and buried pipelines. Assisted with regulatory compliance and permitting. Assisted in the

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#### **ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.**

*Financially Based,*  
16510 Aston St.  
Tel 949.679.9500



*Environmental Solutions*  
Irvine, CA 92606  
Fax 949.679.9501

[www.goemsinc.com](http://www.goemsinc.com)

development plans for the reuse of the former oil production facility as a future residential housing development, area parks and a golf course.

- Directed site characterization studies on four separate refineries in the greater Los Angeles area. Bulk storage terminals, aboveground and underground storage tanks, pumping/transfer stations, marine terminals, and spill areas were investigated with soil borings and monitoring wells. Soil and ground-water contamination, and free-phased floating product were identified.
- Directed a RCRA corrective action remediation of a metal foundry in Paramount, California. The site was identified as a potential school site for the Paramount school district. Tasks included characterization of the vertical and lateral extent of contamination, removal of underground storage tanks, disposal of soil contaminated with metals and solvents, remediation of 4,000 cubic yards of contaminated soil by enhanced biodegradation, free-phase product recovery, ground-water monitoring and remediation.
- For a former oil recycling facility in Santa Fe Springs, California, managed the ground-water and soil characterization studies, negotiated a formal process for removing the site from the Superfund list with regulatory agencies, designed soil and ground-water cleanup measures, managed the removal of aboveground and underground storage tanks, and prepared documents in support of construction financing.
- One of Mr. Severini's specialties is the computer simulation of ground-water aquifers and contaminant plume migration, having completed nearly 30 separate investigations in his career.
- Using optimization modeling, determined the optimal pumping scheme for water supply wells in the Cheyenne, Wyoming municipal water well fields. Analyzed existing aquifer conditions, simulated seasonal performances of the well fields with computer models, and developed pumping strategies that minimized well field drawdown and produced abundant water supply for the city of Cheyenne during normal and below normal precipitation periods.
- Evaluated the effectiveness of recharge strategies for the West Coast Basin ground-water aquifer for the Los Angeles County Flood Control District. Evaluated the effectiveness of recharge basins, evapotranspiration losses, salt-water intrusion barriers, ground-water injection and recharge requirements to meet peak ground-water demand periods during drought years.
- Designed the ground-water extraction system for a mining facility in Denver, Colorado to control ground-water contaminant migration from a mine tailings pond using state-of-the-art computer simulation techniques.

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*Financially Based,*  
16510 Aston St.  
Tel 949.679.9500



*Environmental Solutions*  
Irvine, CA 92606  
Fax 949.679.9501

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- Managed the cost accounting for economic damages caused by regional ground-water contamination for a major aerospace corporation in southern California. Performed and directed the financial analyses of financial statements, databases, invoices, contracts and purchase orders for the development, installation, and operation of a water treatment purification plant. Assisted in the development of financial summary documents to support the submittal of claim packages to insurance carriers.
- Managed ground-water projects for the Department of Energy's program to determine safe geologic media for the deep burial of high-level radioactive waste in the mid-Atlantic and Gulf Coast states. Calculated ground-water flow velocities in deep formations, simulated the performance of the deep repositories with finite-difference and finite-element models in three dimensions, and performed stochastic probability analyses to determine the effects of data error on repository performance. Analyzed the ability to characterize hydrologic properties in deep, fractured crystalline rocks and salt domes through small and large diameter boreholes.
- Directed the investigations of sites contaminated with MTBE in Santa Monica, Irvine and Los Angeles, California. Each site involved the characterization of ground-water plumes, the extent of MTBE plume migration, and the overlap of other plumes with MTBE. Forensic types of analyses were performed using numerical modeling simulations to evaluate the locations of possible sources and the time-rate-of-travel of MTBE. Results indicated the possible times when spillage of MTBE occurred at each of the sources, the volume of ground water contaminated by each source and provided a basis for cost allocation between PRPs for total remediation costs.
- Developed the design for a vapor extraction remediation system for Caltrans in support of freeway expansion in Livingston, California. System was designed to remove free petroleum products from the water table and shallow soils. Project awarded and designed while Mr. Severini was with a former employer. The system designed by Mr. Severini was placed into operation and site closure was achieved.
- Provided senior oversight of hydrogeologic investigations on manufactured gas plant sites in New York and California. Investigations included review of historic operations, locations of potential source areas of contamination, and identification of MGP constituents in soil and ground water.
- Directed the sampling of soils to determine the deposition of air-borne contaminants at residences in the City of Glen Avon in support of the PRP defense committee at the Stringfellow Superfund site in southern California. Provided testimony as to the techniques for sampling, constituents discovered and their likely source.
- Directed the remediation of a large TCE/PCE ground-water plume at a former aerospace facility in Irvine, California. Tasks included delineating the extent of the plume, installing a pump and treat extraction well system, removal of an underground storage

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tank, NPDES permitting, treatment of contaminated effluent by ultraviolet/peroxide purification and carbon adsorption, and treatment of 2,000 yards of contaminated soil by chemical oxidation. Developed a cost allocation model for the settlement of CERCLA claims between existing and previous landowners.

- Managed the cleanup of a gasoline leak from an underground storage tank in Fullerton, California. Permitted, designed, and operated a vapor extraction system using carbon adsorption to achieve eventual cleanup of the contaminated soil.
- Evaluated the effectiveness of ground-water extraction systems at the Rocky Mountain Arsenal in Denver, Colorado. Simulated the recovery of contaminated ground water using a two-dimensional finite-difference computer model and predicted the shape and concentration of the plume over the next 25 years of use. The simulations were used to upgrade the existing extraction system to increase the effectiveness of all control measures.

### ***Former Positions***

Prior to forming Environmental Management Strategies, Inc., Mr. Severini was the National Environmental Practice Leader for KPMG LLP where he was the lead consultant on all environmental litigation engagements.

Prior to joining KPMG, Mr. Severini managed the California operations of Blasland, Bouck & Lee, Inc., an environmental engineering, design and remediation firm, where he was Vice President and General Manager of BBL's Irvine, California office.

Prior to joining BBL, Mr. Severini managed the California operations of TRC Companies, an environmental engineering firm, where he was Vice President and Manager of Hazardous Waste Services for TRC's offices in Irvine, Fresno and San Francisco.

### ***Publications***

Severini, A. and Gibson, J. - *Evaluation of In Situ Hydrogeologic Techniques for Determining Crystalline Rock Permeability in Large- and Small-Diameter Boreholes*. Abstract of the Hydrogeology of Rocks of Low Permeability, International Association of Hydrogeologists, Tucson, Arizona, January 1985.

Severini, A. and Gibson, J. - *Evaluation of Technology for Large- and Small-Diameter Boreholes to Characterize Crystalline Rock*. BMI/OCRD-21, Office of Crystalline Repository Development, Battelle Memorial Institute, Columbus, Ohio, May 1985.

Severini, A., Royalty, P.D., and Bateman, R.L. - *Optimization of Cheyenne Municipal Well-Field Operations: An Application of Parameter Estimation Modeling*. Proceedings of

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***Financially Based,***  
16510 Aston St.  
Tel 949.679.9500



***Environmental Solutions***  
Irvine, CA 92606  
Fax 949.679.9501

[www.goemsinc.com](http://www.goemsinc.com)

Practical Applications of Ground-water Models Conference, National Water Well Association, Worthington, Ohio, August 15-17, 1984.

Severini, A. and Bitner, M.J. - *Two Algorithms to Improve the Efficiency of Existing Well Fields: I. Theoretical Development; II. Applications*. Abstract of the American Geophysical Union, Fall Meeting, San Francisco, December 1984.

Severini, A. and Gibson, J. - *Preliminary Overburden Characterization at Richton Dome*. ONWI-481, Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio, November 1983.

Severini, A., McElwee, C., Butt, M., and Fleming, A. - *Salinity Control on the Smokey Hill River in Central Kansas*. Proceedings of the 1983 International Symposium on State-of-the-Art Control of Salinity, Salt Lake City, July 13-15, 1983.

*Regional Ground-Water Flow Near Richton Dome, Mississippi*. ONWI-456, Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio, November 1983.

Severini, A. and Huntley, D. - *Heat Convection in Warm Springs Valley, Virginia*. Ground Water, 21, No. 6, November 1983.

Severini, A., Denne, J., Stander, T., Sophocleous, M., and Lucus, J. - *An Integrated Approach for Locating Glacial Buried Valley Aquifers*. Ground Water Series 5, Kansas Geological Survey, Lawrence, Kansas, 1982.

Severini, A., McElwee, C., Cobb, P., Fleming, A., and Paschetto, J. - *Study of the Salt Water Intrusion Problem Between Salina, Kansas and Solomon, Kansas, in the Smokey Hill River Valley*. Kansas Geological Survey, Lawrence, Kansas, March 1981.

Severini, A. - *Computer Modeling of Relief Wells Proposed to Alleviate Salt Water Intrusion Between Salina and Solomon, Kansas*. Abstract of the Annual Meeting, National Water Well Association, Kansas City, September 1981.

Severini, A., Denne, J., and Cobb, P. - *Results Comparison Between Conventional and Signal Enhanced DC Resistivity Instruments in Ground-Water Resource and Contaminant Exploration*. Abstracts of the American Geophysical Union, Fall Meeting, San Francisco, December 1981.

Severini, A. - *Resistivity Methods Applicable to the Detection of the Freshwater-Saltwater Interface in Ground-Water Aquifers*. Kansas Water Resources Board, Kansas River Basin, Salt River Intrusion Briefing, February 1980.

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*Environmental Solutions*  
Irvine, CA 92606  
Fax 949.679.9501

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Severini, A. - *Optimization of the Drilling of Water Quality Observation Wells Using Electrical Resistivity*. Annual Meeting of the Big Bend Ground-water Management District No. 5, March 1980.

Severini, A., Denne, J., Sophocleous, M., and Lucus, J. - *Integrated Approach for Locating Glacial Buried Valley Aquifers in Northeastern Kansas*. New Techniques in Assessing Ground-Water Conditions in Glaciated Terrains Symposium, Midwest Ground-Water Conference, October 1980.

Mr. Severini is an author or co-author on over 1,500 technical reports documenting his consulting services to client.

### ***Registrations***

Professional Geologist, Arizona  
Professional Geologist, Arkansas  
Professional Geologist, California  
Professional Geologist, Idaho  
Professional Geologist, Indiana  
Professional Geologist, Oregon  
Professional Geologist, Tennessee  
Professional Geologist, Virginia  
AHERA Certified Asbestos Building Inspector  
AHERA Certified Asbestos Management Planner  
AHERA Certified Asbestos Project Designer  
AHERA Certified Asbestos Contractor Supervisor  
General Engineering A Licensed Contractor, California  
C-57 Certified Well Driller, California

### ***Education***

MS/Geology, 1980, University of Connecticut  
BS/Geology, 1975, University of Connecticut

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## ASHLEY FLORES

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### *POSITION IN THE FIRM*

Mr. Flores has a Bachelor of Science degree in Environmental Science from the University of California Riverside and has been in the environmental consulting industry since 2005. Mr. Flores has joined our team at EMS as a Staff Scientist in 2008. While at EMS Mr. Flores has participated in Potentially Responsible Party (PRP) identification environmental cost allocation, forensic environmental analysis, environmental due diligence, and environmental litigation support.

### *PROFESSIONAL EXPERIENCE*

As a Staff Scientist with EMS, Mr. Flores has conducted Phase I Environmental Site Assessments (Phase I ESAs) and Phase II subsurface investigations. Mr. Flores has also conducted site remediation activities including remedial excavation confirmation sampling and routine soil vapor extraction system operation and maintenance. Mr. Flores site investigation and remediation experience has included work performed at vacant, residential, commercial, and industrial properties. Contaminants of concern included petroleum hydrocarbons, industrial solvents and emergent chemicals. Mr. Flores has experience with traditional hollow-stem auger, direct push and sonic drilling techniques for soil boring and groundwater monitoring well installation. Mr. Flores has also directed soil gas surveys. Mr. Flores has written reports, in whole or in part, documenting Phase I, Phase II and remediation activities.

As a Staff Scientist with EMS, Mr. Flores has conducted sampling of suspected asbestos containing material in commercial and residential structures. Mr. Flores participates in an on-going mold-abatement project for a food distribution warehouse located in Rancho Cucamonga, California.

As an Operations Manager, Mr. Flores managed, organized, and scheduled excavation and housing renovation projects in New Orleans, Louisiana for a crew of 20 employees.

As an Environmental Technician/Scientist Mr. Flores has prepared storm water pollution prevention plans for companies who are required to sample their storm water discharge. Mr. Flores has also prepared toxic chemical release inventory reports and countermeasure plans for spill prevention of hazardous materials or chemicals, also has experience in biohazard cleanup of vehicles and has also taught training sessions for first aid, CPR, and blood borne pathogen exposure.

### *REPRESENTATIVE SITE EXPERIENCE*

- Conducted Due Diligence site assessment activities for numerous residential, commercial and industrial properties located in California. The Due Diligence site assessment activities consisted of the completion of Phase I and Phase II ESAs as well as conducting

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*Financially Based,*  
16510 Aston St.  
Tel: (949) 679-9500



*Environmental Solutions*  
Irvine, CA 92692  
Fax: (949) 679-9501

<http://www.goemsi.com>

and evaluating the results of asbestos, lead based paint, lead in drinking water and radon gas surveys.

- Participates in on-going litigation support projects including PRP identification, detailed evaluation of historic activities, detailed hydrogeological and contaminant distribution evaluations, and cost allocation projects located in Orange and Los Angeles Counties, California.
- Coordinated meetings for mold abatement activities conducted at a 165,000 square foot distribution warehouse in Rancho Cucamonga, California. Meetings were held during the week on a daily basis to ensure the abatement contractor personnel did not interfere with normal warehouse operations. Communication between the warehouse personnel and the abatement contractor personnel allowed the abatement activities to be completed in a timely manner and ahead of schedule. Programmed and oversaw the installation of temperature and humidity data loggers to monitor building conditions.
- Conducted asbestos sampling for the remodeling of office suites at an office complex in the city of Pasadena. Due to the age of the buildings asbestos containing material was suspected to be contained within the building materials of the buildings. Asbestos samples were taken from a number of different medium including drywall, joint compound, carpet glue, etc. in each of the office suites ready for remodeling. The suites sampled did not contain asbestos allowing the suites to be remodeled without any additional expenses for asbestos removal and disposal.
- Performed remedial excavation confirmation soil sampling for a former copier refurbishing facility located in Irvine, California. Activities included screening soil for segregation according to South Coast Air Quality Management District Rule 1166, soil confirmation sampling and determination of final excavation limits.
- Conducted groundwater monitoring on a quarterly basis at a former oil field services bulk plant in northern California. The location previously contained a maintenance shop including underground storage tanks, steam cleaning, sumps, clarifiers, and associated drain lines. Currently conducting quarterly groundwater monitoring at an active plating facility and former aerospace manufacturing facility, both located in southern California. Groundwater underlying the plating facility is impacted with hexavalent chromium, while the aerospace facility is impacted with chlorinated solvents.

#### ***FORMER POSITIONS***

2008 – Present	Scientist, Environmental Management Strategies, Inc., Irvine, California.
2005 – 2008	Operation Manager, BPD Inc., Fontana, California
2003 – 2005	Environmental Technician/Scientist, Jorgenson Environmental, Rancho Cucamonga, California.
2003	Part-time Environmental Technician, Regulation Compliance Inc., Riverside, California.

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***Financially Based,***  
16510 Aston St.  
Tel: (949) 679-9500



***Environmental Solutions***  
Irvine, CA 92692  
Fax: (949) 679-9501

<http://www.goemsinc.com>

***EDUCATION***

Mr. Flores is a graduate from the University of California Riverside, he has received a Bachelor of Science degree in Environmental Science.

***SPECIAL SKILLS / AWARDS***

Fluent in Spanish

Proficient in PC programs such as Excel and Microsoft Word.

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***Environmental Solutions***  
Irvine, CA 92692  
Fax: (949) 679-9501

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**APPENDIX B**

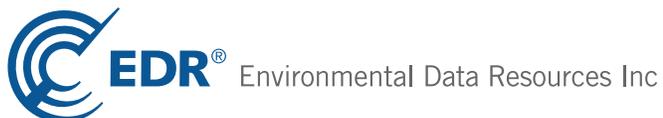
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**AES Alamos Plant**

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May 12, 2015

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

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

### TARGET PROPERTY INFORMATION

#### ADDRESS

690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA 90803

#### COORDINATES

Latitude (North): 33.7673000 - 33° 46' 2.28"  
Longitude (West): 118.1000000 - 118° 5' 60.00"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 398136.5  
UTM Y (Meters): 3736705.0  
Elevation: 11 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33118-G1 LOS ALAMITOS, CA  
Most Recent Revision: 1981

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120505  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA 90803

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	SOUTHERN CALIFORNIA	690 N STUDEBAKER RD	CA HAZNET		TP
A2		690 NORTH STUDEBAKER	CA CHMIRS		TP
A3	ALAMITOS GENERATING	690 NORTH STUDEBAKER	CA SLIC, CA ENF		TP
A4	AES ALAMITOS STATION	690 STUDEBAKER	EPA WATCH LIST		TP
A5		690 STUDEBAKER RD.	CA CHMIRS		TP
A6		690 NORTH STUDEBAKER	ERNS		TP
A7		690 STUDEBAKER RD.	CA CHMIRS		TP
A8	SCE, ALAMITOS GENERA	690 STUDEBAKER ROAD	CA Toxic Pits		TP
A9		690 N STUDEBAKER RD.	CA CHMIRS		TP
A10		690 NORTH STUDEBAKER	CA CHMIRS		TP
A11	ALAMITOS GENERATING	690 STUDEBAKER RD	CA FID UST, CA SWEEPS UST, CA WDS		TP
A12	AES ALAMITOS LLC	690 N. STUDEBAKER RD	RCRA-LQG, FINDS		TP
A13	AES ALAMITOS, L.L.C.	690 NORTH STUDEBAKER	RMP		TP
A14	AES ALAMITOS, LLC	690 NORTH STUDEBAKER	RMP		TP
A15		690 STUDEBAKER RD GE	CA CHMIRS		TP
A16		690 STUDEBAKER RD	ERNS		TP
A17	US BUREAU REC. PILOT	690 N STUDEBAKER RD	CA WDS		TP
A18	AES ALAMITOS L.L.C.	690 N STUDEBAKER ROA	CA AST		TP
A19	ALAMITOS GENERATING	690 N STUDEBAKER RD	CA HIST UST		TP
A20		690 STUDEBAKER RD	ERNS		TP
A21	STUDEBAKER LB, LLC	690 N STUDEBAKER RD	CA HAZNET		TP
A22		690 N. STUDEBAKER RO	ERNS		TP
A23	AES ALAMITOS LLC	690 STUDEBAKER RD SE	CA HAZNET		TP
A24		690 N. STUDEBAKER RO	ERNS		TP
A25	SCE-ALAMITOS GEN STA	0690 STUDEBAKER RD	CA UST		TP
A26	SOUTHERN CALIFORNIA	690 STUDEBAKER ROAD	CA SPILLS 90		TP
A27	SO CAL EDISON CO	690 STUDEBAKER ROAD	CA EMI		TP
A28	AES ALAMITOS	690 STUDEBAKER	CA UST		TP
A29		690 N. STUDEBAKER RD	CA CHMIRS		TP
A30		690 NORTH STUDEBAKER	CA CHMIRS		TP
A31	ALAMITOS GENERATING	690 NORTH STUDEBAKER	CA NPDES, CA CHMIRS, LA Co. Site Mitigation		TP
A32	EDISON O AND M SERVI	690 N STUDEBAKER RD	CA HAZNET		TP
A33	PLAINS WEST COAST TE	690 N STUDEBAKER	CA NPDES, CA HIST UST, CA CHMIRS, CA HAZNET, CA...		TP
A34		TANK FARM @ 690 N. S	CA CHMIRS		TP
A35		690 NORTH STUDEBAKER	ERNS		TP
A36		690 NORTH STUDABAKER	ERNS		TP
A37	EDISON O AND M SERVI	690 STUDEBAKER RD BL	RCRA NonGen / NLR		TP
A38		690 N STUDABAKER ROA	ERNS		TP
A39	ALAMITOS PUMP STATIO	690 N STUDEBAKER RD	CA HIST UST		TP

MAPPED SITES SUMMARY

Target Property Address:  
690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA 90803

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A40</a>		UNIT #3, 690 NORTH S	CA CHMIRS		TP
<a href="#">A41</a>	EPTC ALAMITOS	690 N. STUDEBAKER RD	CORRACTS, RCRA-SQG, NY MANIFEST, US AIRS		TP
<a href="#">A42</a>		690 STUDEBAKER RD LO	ERNS		TP
<a href="#">Reg 43</a>	SEAL BEACH NAVAL WEA	ALAMITOS GENERATING	DOD	Same	4786, 0.906, SE
<a href="#">44</a>	LOYNES BEACH PARTNER	400 N STUDEBAKER ROA	CA ENVIROSTOR	Lower	124, 0.023, WSW
<a href="#">B45</a>	STUDEBAKER-CERRITOS	SW OF STUDEBAKER & L	CA WMUDS/SWAT	Lower	277, 0.052, West
<a href="#">B46</a>	STUDEBAKER - LOYNES	LOYNES DR. & STUDEBA	CA WMUDS/SWAT	Lower	277, 0.052, West
<a href="#">B47</a>	CITY DUMP AND SALVAG	LOYNES DRIVE AND NOR	CA SWF/LF	Lower	295, 0.056, West
<a href="#">B48</a>	ALAMITOS STATION	692 N STUDEBAKER RD	CA HAZNET, CA HWP	Lower	332, 0.063, West
<a href="#">B49</a>	EPTC ALAMITOS PARCEL	692 NORTH STUDEBAKER	CA NPDES, CA DEED, CA VCP, CA ENVIROSTOR	Lower	332, 0.063, West
<a href="#">B50</a>	SCE-ALAMITOS	692 N STUDEBAKER ROA	CA ENVIROSTOR	Lower	332, 0.063, West
<a href="#">B51</a>	EPTC - ALAMITOS	692 N STUDEBAKER ROA	CA AST	Lower	332, 0.063, West
<a href="#">52</a>	CITY DUMP & SALVAGE	STUDEBAKER RD & VIST	CA SWF/LF, CA WMUDS/SWAT	Lower	515, 0.098, West
<a href="#">C53</a>	HAYNES GENERATING ST	6801 EAST 2ND. STREE	RCRA-TSDF, RCRA-LQG	Higher	1437, 0.272, South
<a href="#">C54</a>	HAYNES GENERATING ST	6801 WESTMINSTER AVE	CA UST, CA WDS, CA WMUDS/SWAT	Higher	1450, 0.275, South
<a href="#">C55</a>	LAWP,HAYNES GENERATI	6801 WESTMINSTER AVE	CA Toxic Pits	Higher	1450, 0.275, South
<a href="#">56</a>	LCW OIL OPERATIONS P	6433 E 2ND STREET	CERCLIS	Lower	2435, 0.461, SW
<a href="#">57</a>	LA DEF AREA NIKE BAT		CA ENVIROSTOR	Higher	2791, 0.529, NW
<a href="#">58</a>	NWS SEAL BEACH		FUDS, LUCIS	Higher	4400, 0.833, SE

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SOUTHERN CALIFORNIA 690 N STUDEBAKER RD LONG BEACH, CA 90803	CA HAZNET GEPAID: CAC002697616	N/A
690 NORTH STUDEBAKER 690 NORTH STUDEBAKER LONG BEACH, CA 90803	CA CHMIRS OES Incident Number: 97-4832 OES Incident Number: '08-2148	N/A
ALAMITOS GENERATING 690 NORTH STUDEBAKER LONG BEACH, CA 90803	CA SLIC Facility Status: Site Assessment  CA ENF Status: Active Status: Historical Status: Active Facility Id: 207266	N/A
AES ALAMITOS STATION 690 STUDEBAKER LONG BEACH, CA 90803	EPA WATCH LIST Facility ID: 0603700005	N/A
690 STUDEBAKER RD. 690 STUDEBAKER RD. LONG BEACH, CA	CA CHMIRS OES Incident Number: 04-0095	N/A
690 NORTH STUDEBAKER 690 NORTH STUDEBAKER LONG BEACH, CA 90803	ERNS EDR ID:: 640715	N/A
690 STUDEBAKER RD. 690 STUDEBAKER RD. LONG BEACH, CA 90803	CA CHMIRS OES Incident Number: 05-0242	N/A
SCE, ALAMITOS GENERA 690 STUDEBAKER ROAD LONG BEACH, CA 90803	CA Toxic Pits Task #: 04010 Status: ACTIVE Closure Date: / /	N/A
690 N STUDEBAKER RD. 690 N STUDEBAKER RD. LONG BEACH, CA 90803	CA CHMIRS OES Incident Number: 14-1200	N/A

## EXECUTIVE SUMMARY

690 NORTH STUDEBAKER 690 NORTH STUDEBAKER LONG BEACH, CA 90803	CA CHMIRS OES Incident Number: 99-3840	N/A
ALAMITOS GENERATING 690 STUDEBAKER RD LONG BEACH, CA 90815	CA FID UST Facility Id: 19028797 Status: A  CA SWEEPS UST Comp Number: 66347 Status: A Tank Status: A  CA WDS Facility Status: A Facility Id: 4B192111006	N/A
AES ALAMITOS LLC 690 N. STUDEBAKER RD LONG BEACH, CA 90803	RCRA-LQG EPA ID:: CAR000038265  FINDS Registry ID:: 110000522113	CAR000038265
AES ALAMITOS, L.L.C. 690 NORTH STUDEBAKER LONG BEACH, CA 90803	RMP	N/A
AES ALAMITOS, LLC 690 NORTH STUDEBAKER LONG BEACH, CA 90803	RMP	N/A
690 STUDEBAKER RD GE 690 STUDEBAKER RD GE LONG BEACH, CA 90803	CA CHMIRS OES Incident Number: 006784	N/A
690 STUDEBAKER RD 690 STUDEBAKER RD LONG BEACH, CA 90803	ERNS EDR ID:: 967975	N/A
US BUREAU REC. PILOT 690 N STUDEBAKER RD LONG BEACH, CA 90803	CA WDS Facility Status: A Facility Id: 4B197600038	N/A
AES ALAMITOS L.L.C. 690 N STUDEBAKER ROA LONG BEACH, CA 90803	CA AST	N/A
ALAMITOS GENERATING 690 N STUDEBAKER RD LONG BEACH, CA 90815	CA HIST UST Facility Id: 00000022174 Facility Id: 00000066347	N/A

## EXECUTIVE SUMMARY

690 STUDEBAKER RD 690 STUDEBAKER RD LONG BEACH, CA	ERNS EDR ID:: 742687	N/A
STUDEBAKER LB, LLC 690 N STUDEBAKER RD LONG BEACH, CA 90803	CA HAZNET GEPaid: CAC002658387	N/A
690 N. STUDEBAKER RO 690 N. STUDEBAKER RO LONG BEACH, CA 90803	ERNS EDR ID:: 742660	N/A
AES ALAMITOS LLC 690 STUDEBAKER RD SE LONG BEACH, CA 90803	CA HAZNET GEPaid: CAR000038265	N/A
690 N. STUDEBAKER RO 690 N. STUDEBAKER RO LONG BEACH, CA	ERNS EDR ID:: 746747	N/A
SCE-ALAMITOS GEN STA 0690 STUDEBAKER RD LONG BEACH, CA	CA UST	N/A
SOUTHERN CALIFORNIA 690 STUDEBAKER ROAD LONG BEACH, CA 90803	CA SPILLS 90 Status: SITE ASSESSMENT Site Id: SLC40710D	N/A
SO CAL EDISON CO 690 STUDEBAKER ROAD LONG BEACH, CA 90815	CA EMI Facility Id: 800125	N/A
AES ALAMITOS 690 STUDEBAKER LONG BEACH, CA	CA UST	N/A
690 N. STUDEBAKER RD 690 N. STUDEBAKER RD LONG BEACH, CA	CA CHMIRS OES Incident Number: 04-6199 OES Incident Number: 07-2370	N/A
690 NORTH STUDEBAKER 690 NORTH STUDEBAKER LONG BEACH, CA 90804	CA CHMIRS OES Incident Number: 05-0244	N/A

## EXECUTIVE SUMMARY

<p>ALAMITOS GENERATING 690 NORTH STUDEBAKER LONG BEACH, CA 90803</p>	<p>CA NPDES Facility Status: Active</p> <p>CA CHMIRS OES Incident Number: 07-2375 OES Incident Number: '10-7700 OES Incident Number: 14-3736</p> <p>LA Co. Site Mitigation</p>	<p>N/A</p>
<p>EDISON O AND M SERVI 690 N STUDEBAKER RD LONG BEACH, CA 90803</p>	<p>CA HAZNET GEPaid: CAR000096438</p>	<p>N/A</p>
<p>PLAINS WEST COAST TE 690 N STUDEBAKER LONG BEACH, CA 90802</p>	<p>CA NPDES Facility Status: Active</p> <p>CA HIST UST Facility Id: 00000022165</p> <p>CA CHMIRS OES Incident Number: 98-3807 OES Incident Number: 11-1018</p> <p>CA HAZNET GEPaid: CAC002739565</p> <p>CA EMI Facility Id: 115394</p>	<p>N/A</p>
<p>TANK FARM @ 690 N. S TANK FARM @ 690 N. S LONG BEACH, CA 90805</p>	<p>CA CHMIRS OES Incident Number: 05-3682</p>	<p>N/A</p>
<p>690 NORTH STUDEBAKER 690 NORTH STUDEBAKER LONG BEACH, CA</p>	<p>ERNS EDR ID:: 762820</p>	<p>N/A</p>
<p>690 NORTH STUDABAKER 690 NORTH STUDABAKER LONG BEACH, CA 90803</p>	<p>ERNS EDR ID:: 1087857</p>	<p>N/A</p>
<p>EDISON O AND M SERVI 690 STUDEBAKER RD BL LONG BEACH, CA 90803</p>	<p>RCRA NonGen / NLR EPA ID:: CAR000096438</p>	<p>CAR000096438</p>
<p>690 N STUDABAKER ROA 690 N STUDABAKER ROA LONG BEACH, CA</p>	<p>ERNS EDR ID:: 832553</p>	<p>N/A</p>
<p>ALAMITOS PUMP STATIO 690 N STUDEBAKER RD LONG BEACH, CA 90815</p>	<p>CA HIST UST Facility Id: 00000066357</p>	<p>N/A</p>

## EXECUTIVE SUMMARY

UNIT #3, 690 NORTH S  
UNIT #3, 690 NORTH S  
LONG BEACH, CA 90803

CA CHMIRS  
OES Incident Number: '10-5145

N/A

EPTC ALAMITOS  
690 N. STUDEBAKER RD  
LONG BEACH, CA 90815

CORRACTS  
EPA ID:: CAD009694795

CAD009694795

RCRA-SQG  
EPA ID:: CAD009694795

NY MANIFEST  
EPA ID: CAD009694795

US AIRS  
EPA plant ID:: 110000522113

690 STUDEBAKER RD LO  
690 STUDEBAKER RD LO  
LONG BEACH, CA 90803

ERNS  
EDR ID:: 000560953

N/A

### DATABASES WITH NO MAPPED SITES

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

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

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

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***Federal RCRA generators list***

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

## EXECUTIVE SUMMARY

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***State- and tribal - equivalent NPL***

CA RESPONSE..... State Response Sites

### ***State and tribal leaking storage tank lists***

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

### ***State and tribal registered storage tank lists***

INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
CA SWRCY..... Recycler Database  
CA HAULERS..... Registered Waste Tire Haulers Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US CDL..... Clandestine Drug Labs  
CA HIST Cal-Sites..... Historical Calsites Database  
CA SCH..... School Property Evaluation Program  
CA AOC CONCERN..... San Gabriel Valley Areas of Concern  
CA CDL..... Clandestine Drug Labs  
US HIST CDL..... National Clandestine Laboratory Register

#### ***Local Land Records***

LIENS 2..... CERCLA Lien Information  
CA LIENS..... Environmental Liens Listing

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CA LDS..... Land Disposal Sites Listing  
CA MCS..... Military Cleanup Sites Listing  
CA Orange Co. Industrial Site. List of Industrial Site Cleanups

### ***Other Ascertainable Records***

DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
US 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  
RAATS..... RCRA Administrative Action Tracking System  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
CA UIC..... UIC Listing  
CA Cortese..... "Cortese" Hazardous Waste & Substances Sites List  
CA HIST CORTESE..... Hazardous Waste & Substance Site List  
CA CUPA Listings..... CUPA Resources List  
CA Notify 65..... Proposition 65 Records  
CA DRYCLEANERS..... Cleaner Facilities  
CA WIP..... Well Investigation Program Case List  
CA LOS ANGELES CO. HMS..... HMS: Street Number List  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
CA MWMP..... Medical Waste Management Program Listing  
CA Financial Assurance..... Financial Assurance Information Listing  
CA PROC..... Certified Processors Database  
CA HWT..... Registered Hazardous Waste Transporter Database  
PCB TRANSFORMER..... PCB Transformer Registration Database  
US FIN ASSUR..... Financial Assurance Information  
LEAD SMELTERS..... Lead Smelter Sites  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
2020 COR ACTION..... 2020 Corrective Action Program List  
PRP..... Potentially Responsible Parties

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations  
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### ***Exclusive Recovered Govt. Archives***

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

## EXECUTIVE SUMMARY

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LCW OIL OPERATIONS P	6433 E 2ND STREET	SW 1/4 - 1/2 (0.461 mi.)	56	139

#### ***Federal RCRA non-CORRACTS TSD facilities list***

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

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>HAYNES GENERATING ST</i></b>	<b><i>6801 EAST 2ND. STREE</i></b>	<b><i>S 1/4 - 1/2 (0.272 mi.)</i></b>	<b><i>C53</i></b>	<b><i>127</i></b>

## EXECUTIVE SUMMARY

### ***Federal ERNS list***

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 09/29/2014 has revealed that there is 1 ERNS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	ALAMITOS GENERATING	0 - 1/8 (0.000 mi.)	43	112

### ***State- and tribal - equivalent CERCLIS***

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

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 03/11/2015 has revealed that there are 4 CA ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA DEF AREA NIKE BAT Facility Id: 80000285 Status: Inactive - Needs Evaluation		NW 1/2 - 1 (0.529 mi.)	57	141
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOYNES BEACH PARTNER Facility Id: 60001986 Status: Active	400 N STUDEBAKER ROA	WSW 0 - 1/8 (0.023 mi.)	44	113
<b><i>EPTC ALAMITOS PARCEL</i></b> Facility Id: 19130113 Status: Certified O&M - Land Use Restrictions Only	<b><i>692 NORTH STUDEBAKER</i></b>	<b><i>W 0 - 1/8 (0.063 mi.)</i></b>	<b><i>B49</i></b>	<b><i>119</i></b>
SCE-ALAMITOS Facility Id: 80001647 Status: Active	692 N STUDEBAKER ROA	W 0 - 1/8 (0.063 mi.)	B50	123

## EXECUTIVE SUMMARY

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

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, and dated 02/16/2015 has revealed that there are 2 CA SWF/LF sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY DUMP AND SALVAG Status: Closed Site ID: 2236	LOYNES DRIVE AND NOR	W 0 - 1/8 (0.056 mi.)	B47	116
<b>CITY DUMP &amp; SALVAGE</b> Regulation Status: Unpermitted Operational Status: Closed Facility ID: 19-AK-5004	<b>STUDEBAKER RD &amp; VIST</b>	<b>W 0 - 1/8 (0.098 mi.)</b>	<b>52</b>	<b>126</b>

### ***State and tribal registered storage tank lists***

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 CA AST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EPTC - ALAMITOS	692 N STUDEBAKER ROA	W 0 - 1/8 (0.063 mi.)	B51	125

### ***State and tribal voluntary cleanup sites***

CA VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the CA VCP list, as provided by EDR, and dated 03/11/2015 has revealed that there is 1 CA VCP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>EPTC ALAMITOS PARCEL</b> Status: Certified O&M - Land Use Restrictions Only Facility Id: 19130113	<b>692 NORTH STUDEBAKER</b>	<b>W 0 - 1/8 (0.063 mi.)</b>	<b>B49</b>	<b>119</b>

## EXECUTIVE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

CA 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 CA WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 4 CA WMUDS/SWAT sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HAYNES GENERATING ST</b>	<b>6801 WESTMINSTER AVE</b>	<b>S 1/4 - 1/2 (0.275 mi.)</b>	<b>C54</b>	<b>136</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STUDEBAKER-CERRITOS	SW OF STUDEBAKER & L	W 0 - 1/8 (0.052 mi.)	B45	114
STUDEBAKER - LOYNES	LOYNES DR. & STUDEBA	W 0 - 1/8 (0.052 mi.)	B46	115
<b>CITY DUMP &amp; SALVAGE</b>	<b>STUDEBAKER RD &amp; VIST</b>	<b>W 0 - 1/8 (0.098 mi.)</b>	<b>52</b>	<b>126</b>

#### ***Local Lists of Hazardous waste / Contaminated Sites***

CA Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the CA Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 CA Toxic Pits site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LAWP,HAYNES GENERATI Task #: 84006 Status: CLOSED Closure Date: 10/18/90	6801 WESTMINSTER AVE	S 1/4 - 1/2 (0.275 mi.)	C55	139

#### ***Local Land Records***

CA DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the CA DEED list, as provided by EDR, and dated 03/09/2015 has revealed that there is 1 CA DEED site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>EPTC ALAMITOS PARCEL</b> Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 19130113	<b>692 NORTH STUDEBAKER</b>	<b>W 0 - 1/8 (0.063 mi.)</b>	<b>B49</b>	<b>119</b>

## EXECUTIVE SUMMARY

### ***Other Ascertainable Records***

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SEAL BEACH NAVAL WEA		SE 1/2 - 1 (0.906 mi.)	0	112

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 06/06/2014 has revealed that there is 1 FUDS 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>
<b><i>NWS SEAL BEACH</i></b>		<b><i>SE 1/2 - 1 (0.833 mi.)</i></b>	<b><i>58</i></b>	<b><i>142</i></b>

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

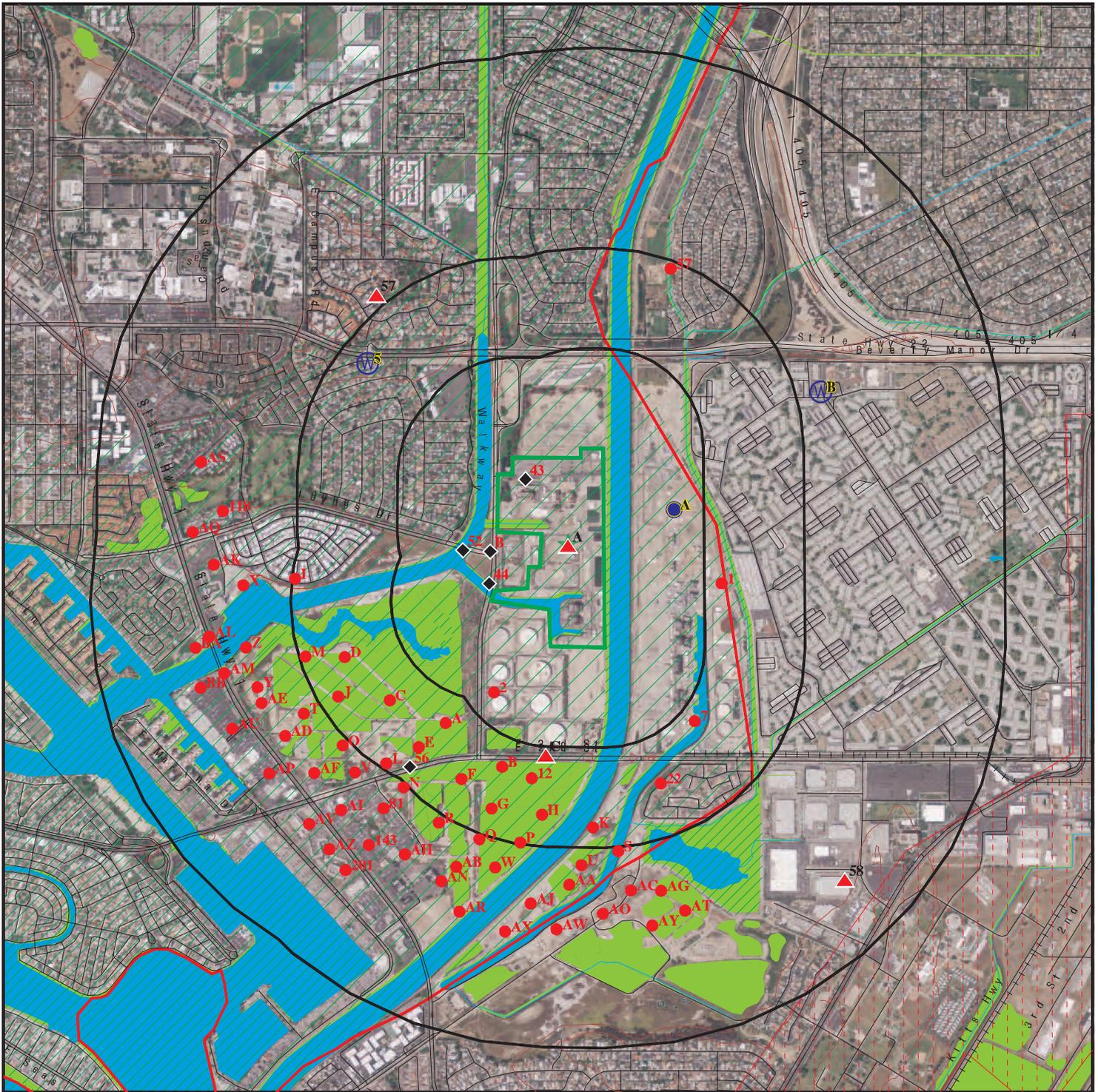
A review of the CA HWP list, as provided by EDR, and dated 02/23/2015 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>ALAMITOS STATION</i></b> EPA Id: CAD009694795 Cleanup Status: UNKNOWN	<b><i>692 N STUDEBAKER RD</i></b>	<b><i>W 0 - 1/8 (0.063 mi.)</i></b>	<b><i>B48</i></b>	<b><i>117</i></b>

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 4291472.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

County Boundary

Oil & Gas pipelines from USGS

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: AES Alamos Plant  
 ADDRESS: 690 North Studebaker Road  
 Long Beach CA 90803  
 LAT/LONG: 33.7673 / 118.1

CLIENT: Env. Management Strategies  
 CONTACT: Ashley Flores  
 INQUIRY #: 4291472.2s  
 DATE: May 12, 2015 7:42 am

# DETAIL MAP - 4291472.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  County Boundary
-  Oil & Gas pipelines from USGS
-  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: AES Alamos Plant  
 ADDRESS: 690 North Studebaker Road  
 Long Beach CA 90803  
 LAT/LONG: 33.7673 / 118.1

CLIENT: Env. Management Strategies  
 CONTACT: Ashley Flores  
 INQUIRY #: 4291472.2s  
 DATE: May 12, 2015 7:42 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000	1	0	0	0	0	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250	1	0	0	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001	9	1	NR	NR	NR	NR	10
<b><i>State- and tribal - equivalent NPL</i></b>								
CA RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CA ENVIROSTOR	1.000		3	0	0	1	NR	4
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
CA SWF/LF	0.500		2	0	0	NR	NR	2
<b><i>State and tribal leaking storage tank lists</i></b>								
CA LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA SLIC	0.500	1	0	0	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
CA UST	0.250	2	0	0	NR	NR	NR	2
CA AST	0.250	1	1	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
CA VCP	0.500		1	0	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
CA WMUDS/SWAT	0.500		3	0	1	NR	NR	4
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA Toxic Pits	1.000	1	0	0	1	0	NR	2
CA AOCONCERN	1.000		0	0	0	0	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
CA FID UST	0.250	1	0	0	NR	NR	NR	1
CA HIST UST	0.250	3	0	0	NR	NR	NR	3
CA SWEEPS UST	0.250	1	0	0	NR	NR	NR	1
<b>Local Land Records</b>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA LIENS	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		1	0	0	NR	NR	1
<b>Records of Emergency Release Reports</b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001	12	0	NR	NR	NR	NR	12

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001	1	0	NR	NR	NR	NR	1
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250	1	0	0	NR	NR	NR	1
DOT OPS	0.001		0	NR	NR	NR	NR	0
DOD	1.000		0	0	0	1	NR	1
FUDS	1.000		0	0	0	1	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
RAATS	0.001		0	NR	NR	NR	NR	0
RMP	0.001	2	0	NR	NR	NR	NR	2
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA NPDES	0.001	2	0	NR	NR	NR	NR	2
CA UIC	0.001		0	NR	NR	NR	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA HIST CORTESE	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250	1	0	0	NR	NR	NR	1
CA Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001	1	0	NR	NR	NR	NR	1
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001	1	0	NR	NR	NR	NR	1
CA HAZNET	0.001	5	0	NR	NR	NR	NR	5
CA EMI	0.001	2	0	NR	NR	NR	NR	2
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA WDS	0.001	2	0	NR	NR	NR	NR	2
CA HWP	1.000		1	0	0	0	NR	1
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001	1	0	NR	NR	NR	NR	1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property**     **SOUTHERN CALIFORNIA EDISON - STADIUM SUB STATION**  
**690 N STUDEBAKER RD**  
**LONG BEACH, CA 90803**

**CA HAZNET**     **S113782970**  
**N/A**

**Site 1 of 42 in cluster A**

**Actual:**  
**11 ft.**

HAZNET:  
envid:                    S113782970  
Year:                     2012  
GEPaid:                  CAC002697616  
Contact:                 SARA DUVALL  
Telephone:               6268628458  
Mailing Name:           Not reported  
Mailing Address:        PO BOX 800  
Mailing City,St,Zip:    ROSEMEAD, CA 917700800  
Gen County:              Los Angeles  
TSD EPA ID:              CAD050806850  
TSD County:              Los Angeles  
Waste Category:        Not reported  
Disposal Method:       Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
                                  (H010-H129) Or (H131-H135)  
Tons:                      2.60625  
Facility County:        Los Angeles

**A2**  
**Target**  
**Property**     **690 NORTH STUDEBAKER RD**  
**LONG BEACH, CA 90803**

**CA CHMIRS**     **S105648198**  
**N/A**

**Site 2 of 42 in cluster A**

**Actual:**  
**11 ft.**

CHMIRS:  
OES Incident Number:    97-4832  
OES notification:        12/06/1997  
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  
More Than Two Substances Involved?:    Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated:       Not reported  
Others Number Of Injuries:                Not reported  
Others Number Of Fatalities:              Not reported  
Vehicle Make/year:       Not reported  
Vehicle License Number: Not reported  
Vehicle State:           Not reported  
Vehicle Id Number:      Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name:           Not reported  
Reporting Officer Name/ID: Not reported  
Report Date:             Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105648198

Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1997  
Agency: SO CAL EDISON  
Incident Date: 12/6/1997 12:00:00 AM  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Yes  
Site Type: Industrial Plant  
E Date: Not reported  
Substance: OIL  
Gallons: 1  
Unknown: 0  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fatals: Not reported  
Comments: Not reported  
Description: TROUGH OVER FLOWED, OIL WENT INTO THE DRAIN SYSTEM TRAPPED INSIDE THE FACILITY

OES Incident Number: '08-2148  
OES notification: 03/18/2008  
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  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105648198

Responding Agency Personnel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Industrial Plant  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Gal(s)  
Other: Not reported  
Date/Time: 1312  
Year: 2008  
Agency: AES Alamitos  
Incident Date: 3/18/2008  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Not reported  
E Date: Not reported  
Substance: Mineral Oil-non PCB  
Quantity Released: 10  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fataals: Not reported  
Comments: Not reported  
Description: A tank broke and caused release of substance.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	397235
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	13267 Letter
Effective Date:	07/14/2014
Adoption/Issuance Date:	07/14/2014
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	13267 Letter 07/14/2014 for AES Alamitos LLC
Description:	Information requested in response to temperature violations.
	Not reported
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S104549313

SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	392477
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	07/22/2013
Adoption/Issuance Date:	07/22/2013
Achieve Date:	Not reported
Termination Date:	07/22/2013

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 07/22/2013 for AES Alamos LLC
Description:	Sent the discharger two email detailing the discrepancies in the report submittal and the monitoring violations. The database will also notify the LRO of the violations linked to the January and February reports. Note: 6 hours were spent reviewing these two reports and addressing these violations.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	392476
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	07/23/2013
Adoption/Issuance Date:	07/23/2013
Achieve Date:	Not reported
Termination Date:	07/23/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 07/23/2013 for AES Alamitos LLC
Description:	Sent the discharger an email detailing the discrepancies in the report. The database notified the LRO of the violations linked to both the March and April 2013 reports. Note: 8 hours were spent reviewing these two reports and addressing these violations.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	392474
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	07/25/2013
Adoption/Issuance Date:	07/25/2013
Achieve Date:	Not reported
Termination Date:	07/25/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 07/25/2013 for AES Alamos LLC
Description:	Sent the discharger an email detailing the discrepancies in the report submittal and the monitoring violation. The database will also notify the LRO of the violations linked to the May 2013 report. Note: 6 hours were spent reviewing and addressing these violations.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	389478
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	01/24/2012
Adoption/Issuance Date:	01/24/2012
Achieve Date:	Not reported
Termination Date:	01/24/2012
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 01/24/2012 for AES Alamitos LLC
Description:	Contacted Mike Linares by email on 1/24/2012 to let him know about the Maximum Holding Time for coliform and the inadequacy of the chain-of-custody forms.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	385569
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	13267 Letter
Effective Date:	06/05/2012
Adoption/Issuance Date:	06/05/2012
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	13267 Letter 06/05/2012 for AES Alamitos LLC
Description:	Discharger failed to comply with the 13267 Order timely.
Program:	NPDIINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S104549313

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	382673
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	05/04/2011
Adoption/Issuance Date:	05/04/2011
Achieve Date:	Not reported
Termination Date:	05/04/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 05/04/2011 for AES Alamitos LLC
Description:	Not reported
Program:	NPDINDLRG

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	382671
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	12/21/2011
Adoption/Issuance Date:	12/21/2011
Achieve Date:	Not reported
Termination Date:	12/21/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 12/21/2011 for AES Alamitos LLC
Description:	Not reported
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00
Region:	4
Facility Id:	207266
Agency Name:	AES Alamitos LLC
Place Type:	Utility
Place Subtype:	Power Plant
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.76592
Place Longitude:	-118.10366
SIC Code 1:	4911
SIC Desc 1:	Electric Services
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S104549313

NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	1282.8
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDIINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B192111006
Reg Measure Id:	148236
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-082
Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	352440
Region:	4
Order / Resolution Number:	R4-2008-0057-M
Enforcement Action Type:	Admin Civil Liability
Effective Date:	08/29/2008
Adoption/Issuance Date:	01/22/2009
Achieve Date:	Not reported
Termination Date:	02/02/2009
ACL Issuance Date:	01/22/2009
EPL Issuance Date:	08/29/2008
Status:	Historical

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S104549313

Title: Stipulated Order R4-2008-0057-M for \$87,000 issued 1/22/09.  
Description: Expedited Settlement Ltr sent 8/29/08 for 34 effluent & 1 late report. MMP amt for 28 eligible effluent violations: \$84,000 to CAA. MMP amt for 1 late report: \$3,000 to CAA. Stipulated Order R4-2008-0057-M for \$87,000 issued 1/22/09.  
Program: NPDINDLRG  
Latest Milestone Completion Date: 2/2/2009  
# Of Programs1: 1  
Total Assessment Amount: \$87,000.00  
Initial Assessed Amount: \$87,000.00  
Liability \$ Amount: \$87,000.00  
Project \$ Amount: \$0.00  
Liability \$ Paid: \$87,000.00  
Project \$ Completed: \$0.00  
Total \$ Paid/Completed Amount: \$87,000.00  
Region: 4  
Facility Id: 207266  
Agency Name: AES Alamitos LLC  
Place Type: Utility  
Place Subtype: Power Plant  
Facility Type: Industrial  
Agency Type: Privately-Owned Business  
# Of Agencies: 1  
Place Latitude: 33.76592  
Place Longitude: -118.10366  
SIC Code 1: 4911  
SIC Desc 1: Electric Services  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Reg Meas  
Design Flow: 1282.8  
Threat To Water Quality: 1  
Complexity: A  
Pretreatment: X - Facility is not a POTW  
Facility Waste Type: Process waste, NEC  
Facility Waste Type 2: Not reported  
Facility Waste Type 3: Not reported  
Facility Waste Type 4: Not reported  
Program: NPDINDLRG  
Program Category1: NPDESWW  
Program Category2: NPDESWW  
# Of Programs: 1  
WDID: 4B192111006  
Reg Measure Id: 148236  
Reg Measure Type: NPDES Permits  
Region: 4  
Order #: 00-082

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S104549313**

Npdes# CA#:	CA0001139
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	20000
Status:	Active
Status Date:	08/10/2012
Effective Date:	06/29/2000
Expiration/Review Date:	01/01/2010
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	349106
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	05/30/2008
Adoption/Issuance Date:	05/30/2008
Achieve Date:	Not reported
Termination Date:	05/30/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV sent 5/30/08 for 31 permit effluent violations of Order 00-082.
Description:	NOV sent 5/30/08 for 31 permit effluent violations of Order 00-082.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	\$0.00
Initial Assessed Amount:	\$0.00
Liability \$ Amount:	\$0.00
Project \$ Amount:	\$0.00
Liability \$ Paid:	\$0.00
Project \$ Completed:	\$0.00
Total \$ Paid/Completed Amount:	\$0.00

**A4  
 Target  
 Property**

**AES ALAMITOS STATION, LLC  
 690 STUDEBAKER  
 LONG BEACH, CA 90803**

**EPA WATCH LIST 1014934326  
 N/A**

**Site 4 of 42 in cluster A**

**Actual:  
 11 ft.**

EPA WATCH LIST:  
 Facility ID: 0603700005  
 Program: CAA Facilities  
 List date: July 2012 Watch List

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS STATION, LLC (Continued)**

**1014934326**

Facility ID: 0603700005  
Program: CAA Facilities  
List date: September 2012 Watch List

Facility ID: 0603700005  
Program: CAA Facilities  
List date: August 2012 Watch List

Facility ID: 0603700005  
Program: CAA Facilities  
List date: October 2012 Watch List

Facility ID: 0603700005  
Program: CAA Facilities  
List date: June 2012 Watch List

**A5**  
**Target**  
**Property**

**690 STUDEBAKER RD.**  
**LONG BEACH, CA**

**CA CHMIRS S107450615**  
**N/A**

**Site 5 of 42 in cluster A**

**Actual:**  
**11 ft.**

CHMIRS:  
OES Incident Number: 04-0095  
OES notification: 01/06/2004  
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  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S107450615**

What Happened: Not reported  
 Type: Not reported  
 Measure: Not reported  
 Other: Not reported  
 Date/Time: Not reported  
 Year: 2004  
 Agency: AES  
 Incident Date: 1/6/2004 12:00:00 AM  
 Admin Agency: Long Beach Fire Department  
 Amount: Not reported  
 Contained: Yes  
 Site Type: Utilities/Substation  
 E Date: Not reported  
 Substance: Crude Oil  
 Gallons: 200  
 Unknown: 0  
 Substance #2: Not reported  
 Substance #3: Not reported  
 Evacuations: 0  
 Number of Injuries: 0  
 Number of Fatalities: 0  
 #1 Pipeline: Not reported  
 #2 Pipeline: Not reported  
 #3 Pipeline: Not reported  
 #1 Vessel >= 300 Tons: Not reported  
 #2 Vessel >= 300 Tons: Not reported  
 #3 Vessel >= 300 Tons: Not reported  
 Evacs: Not reported  
 Injuries: Not reported  
 Fatafs: Not reported  
 Comments: Not reported  
 Description: A pump blew out and caused spill.

**A6**

**Target Property** 690 NORTH STUDEBAKER ROAD  
 LONG BEACH, CA 90803

**ERNS 99640715**  
 N/A

**Site 6 of 42 in cluster A**

**Actual:**  
 11 ft.

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

**A7**

**Target Property** 690 STUDEBAKER RD.  
 LONG BEACH, CA 90803

**CA CHMIRS S108401047**  
 N/A

**Site 7 of 42 in cluster A**

**Actual:**  
 11 ft.

**CHMIRS:**  
 OES Incident Number: 05-0242  
 OES notification: 01/10/2005  
 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S108401047

Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Not reported  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 2005  
Agency: AES Alamos  
Incident Date: 1/10/200512:00:00 AM  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Utilities/Substation  
E Date: Not reported  
Substance: Lube Oil  
Gallons: 10  
Unknown: 0  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fatafs: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S108401047**

Comments: Not reported  
 Description: Release is under investigation at this time. Product is contained within the channel that is used to cool the systems.

**A8  
 Target  
 Property**

**SCE, ALAMITOS GENERATING STA.  
 690 STUDEBAKER ROAD  
 LONG BEACH, CA 90803**

**CA Toxic Pits**

**S100676271  
 N/A**

**Site 8 of 42 in cluster A**

**Actual:  
 11 ft.**

**TOXIC PITS:**  
 Region: 04  
 Task #: 04010  
 Owner: SOUTHERN CALIFORNIA EDISON  
 1/2 Mi Limit: Y  
 Num. of Pits: 1  
 Cease Discharge Due: 02/26/95  
 Cease Discharge Complete: / /  
 Closure Due: / /  
**Closure Completed: / /**  
 Status: ACTIVE  
 Hydro Geological Assessment Report Due: / /  
 Final Hydro Geological Assessment Review Completed: 05/27/88

**A9  
 Target  
 Property**

**690 N STUDEBAKER RD.  
 LONG BEACH, CA 90803**

**CA CHMIRS**

**S116777760  
 N/A**

**Site 9 of 42 in cluster A**

**Actual:  
 11 ft.**

**CHMIRS:**  
 OES Incident Number: 14-1200  
 OES notification: 02/27/2014  
 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  
 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S116777760

CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: Los Cerritos Channel  
Spill Site: Waterways  
Cleanup By: No  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Type: UNSPECIFIED  
Measure: Unknown  
Other: Not reported  
Date/Time: 900  
Year: 2014  
Agency: AES, Natural Gas Power Plant  
Incident Date: 2/27/2014  
Admin Agency: Not reported  
Amount: Not reported  
Contained: No  
Site Type: Los Cerritos Channel  
E Date: Not reported  
Substance: Unknown, Non-Petroleum  
Quantity Released: Unknown  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: No  
#2 Pipeline: No  
#3 Pipeline: No  
#1 Vessel >= 300 Tons: Unknown  
#2 Vessel >= 300 Tons: No  
#3 Vessel >= 300 Tons: No  
Evacs: No  
Injuries: Unknown  
Fataals: No  
Comments: Not reported  
Description: RP states that a yellow substance that covers a very large portion of the Los Cerritos Channel appears to be non-petroleum based. The substance leaves a residue along channel and rocks. No smell.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**A10**  
**Target** 690 NORTH STUDEBAKER RD, A POWER GENERATING STATION  
**Property** LONG BEACH, CA 90803

**CA CHMIRS** S106393493  
N/A

**Site 10 of 42 in cluster A**

**Actual:**  
**11 ft.**

CHMIRS:  
OES Incident Number: 99-3840  
OES notification: 09/12/1999  
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  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: a feeder canal  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1999  
Agency: Edison Pipeline  
Incident Date: 9/12/199912:00:00 AM  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Other  
E Date: Not reported  
Substance: fuel oil  
BBLs: 5  
Unknown: 0  
Substance #2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S106393493

Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fataals: Not reported  
Comments: Not reported  
Description: A valve problem, not determined as yet. All contained, including that in canal

A11  
Target  
Property

ALAMITOS GENERATING STATION  
690 STUDEBAKER RD  
LONG BEACH, CA 90815

CA FID UST S101618237  
CA SWEEPS UST N/A  
CA WDS

Site 11 of 42 in cluster A

Actual:  
11 ft.

CA FID UST:  
Facility ID: 19028797  
Regulated By: UTNKA  
Regulated ID: 00066347  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2134300561  
Mail To: Not reported  
Mailing Address: P O BOX  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LONG BEACH 90815  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

SWEEPS UST:  
Status: Active  
Comp Number: 66347  
Number: 1  
Board Of Equalization: 44-007438  
Referral Date: 03-30-93  
Action Date: 10-26-93  
Created Date: 02-29-88  
Owner Tank Id: 435  
SWRCB Tank Id: 19-060-066347-000001  
Tank Status: A  
Capacity: 1  
Active Date: 07-01-85  
Tank Use: OIL  
STG: W

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S101618237**

Content: WASTE OIL  
Number Of Tanks: 3  
  
Status: Active  
Comp Number: 66347  
Number: 1  
Board Of Equalization: 44-007438  
Referral Date: 03-30-93  
Action Date: 10-26-93  
Created Date: 02-29-88  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-060-066347-000002  
Tank Status: A  
Capacity: 10000  
Active Date: 02-22-93  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 66347  
Number: 1  
Board Of Equalization: 44-007438  
Referral Date: 03-30-93  
Action Date: 10-26-93  
Created Date: 02-29-88  
Owner Tank Id: TK 001  
SWRCB Tank Id: 19-060-066347-000003  
Tank Status: A  
Capacity: 20000  
Active Date: 02-22-93  
Tank Use: CHEMICAL  
STG: P  
Content: AQUA AMMONIA  
Number Of Tanks: Not reported

**WDS:**

Facility ID: Los Angeles River 192111006  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.  
  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
  
NPDES Number: CA0001139 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
  
Subregion: 4  
Facility Telephone: 3104937891  
Facility Contact: Steven Maghy  
Agency Name: AES ALAMITOS L.L.C.  
Agency Address: Not reported  
Agency City,St,Zip: 0  
Agency Contact: Not reported  
Agency Telephone: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S101618237**

Agency Type: Private  
 SIC Code: 4911  
 SIC Code 2: Not reported  
 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.  
 Primary Waste: PROCES  
 Waste Type2: Not reported  
 Waste2: Process Waste (Waste produced as part of the industrial/manufacturing process)  
 Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Design Flow: 1283  
 Baseline Flow: 1275  
 Reclamation: No reclamation requirements associated with this facility.  
 POTW: The facility is not a POTW.  
 Treat To Water: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.  
 Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

**A12**      **AES ALAMITOS LLC**  
**Target**    **690 N. STUDEBAKER RD**  
**Property**   **LONG BEACH, CA 90803**

**RCRA-LQG**    **1001217619**  
**FINDS**        **CAR000038265**

**Site 12 of 42 in cluster A**

**Actual:**      **RCRA-LQG:**  
**11 ft.**        Date form received by agency: 06/15/2010  
 Facility name:      AES ALAMITOS LLC  
 Facility address:    690 N. STUDEBAKER RD  
    LONG BEACH, CA 90803  
 EPA ID:              CAR000038265  
 Mailing address:    690 N. STUDEBAKER RD.  
    LONG BEACH, CA 90803  
 Contact:              MIKE LINARES  
 Contact address:    690 N. STUDEBAKER  
    LONG BEACH, CA 90803  
 Contact country:    US  
 Contact telephone:   (562) 493-7863  
 Contact email:       MIKE.LINARES@AES.COM  
 EPA Region:         09  
 Land type:            Private  
 Classification:       Large Quantity Generator  
 Description:          Handler: generates 1,000 kg or more of hazardous waste during any

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**1001217619**

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: AES ALAMITOS LLC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/15/1998  
Owner/Op end date: Not reported

Owner/operator name: AES ALAMITOS LLC  
Owner/operator address: 690 N. STUDEBAKER RD.  
LONG BEACH, CA 90803  
Owner/operator country: US  
Owner/operator telephone: (562) 493-7863  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/15/1998  
Owner/Op end date: Not reported

Owner/operator name: AES ALAMITOS LLC  
Owner/operator address: 44 MONTGOMERY ST STE 3450  
SAN FRANCISCO, CA 94104  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 395-7892  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**1001217619**

Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY

Historical Generators:

Date form received by agency: 02/12/2004  
Site name: AES ALAMITOS LLC  
Classification: Small Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/05/2002  
Site name: AES ALAMITOS LLC  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Site name: AES ALAMITOS LLC  
Classification: Large Quantity Generator

Date form received by agency: 04/04/1998  
Site name: AES ALAMITOS LLC  
Classification: Large Quantity Generator

- . Waste code: D000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**1001217619**

- . Waste name: Not Defined
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**1001217619**

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 07/14/2010  
Date achieved compliance: 08/17/2010  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 02/16/2010  
Date achieved compliance: 02/16/2010  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 06/03/2008  
Date achieved compliance: 06/25/2008  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 05/05/2005  
Date achieved compliance: 05/31/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/05/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**1001217619**

Evaluation Action Summary:

Evaluation date: 07/14/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 08/17/2010  
Evaluation lead agency: State

Evaluation date: 02/16/2010  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/16/2010  
Evaluation lead agency: State

Evaluation date: 08/04/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/03/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 06/25/2008  
Evaluation lead agency: State

Evaluation date: 05/05/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 05/31/2005  
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/29/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110000522113

Environmental Interest/Information System

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing

Map ID  
Direction  
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MAP FINDINGS

Site

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**AES ALAMITOS LLC (Continued)**

**1001217619**

allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

**TSCA SUBMITTER**

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

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

**AIR MAJOR**

**ELECTRIC GENERATOR**

**HAZARDOUS WASTE BIENNIAL REPORTER**

**STATE MASTER**

**CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY**

**GREENHOUSE GAS REPORTER**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A13**      **AES ALAMITOS, L.L.C.**  
**Target**    **690 NORTH STUDEBAKER ROAD**  
**Property**   **LONG BEACH, CA 90803**

**RMP**    **1011814101**  
          **N/A**

**Site 13 of 42 in cluster A**

**Actual:**  
**11 ft.**

RMP:  
Facility ID: 9319  
LEPC city: California Region 1 LEPC  
Facility decimal latitude: 33.770833  
Facility decimal longitude: -118.102778  
Is facility in county box: T  
LatLong method: I4  
LatLong description: PG  
Home page web address: Not reported  
Facility telephone: 5624937891  
Facility email: Not reported  
Facility DUNS #: 0  
Parent's name: AES Corporation  
Partner's name: Not reported  
Parent's DUNS #: 0  
Partner's DUNS #: 0  
Operator's name: AES Alamitos, L.L.C.  
Operator's telephone: 5624937891  
Operator's address: 690 North Studebaker Road  
Operators City,St,Zip: Long Beach, CA 90803 2221  
RMP implementation contact: Mark Woodruff  
RMP contact title: Station Manager  
Emergency contact: Steve Maghy  
Emergency contact title: Safety & Environmental Specialist  
Emergency contact telephone: 5624937886  
24 hour emergency telephone: 6263021212  
Emergency contact ext/pin #: Not reported  
Number of full time employees: 92  
EPA ID: CAR000038265  
Facility ID provided by CEPPO: 100000115083  
Is facility covered by OSHA PSM: F  
Is facility covered by EPCRA 302: F  
Is fac. covered by CAA Title V 112(2): T  
Clean air op. permit/State ID: 115394  
Last safety insp. dat: 1999-06-10 00:00:00  
Inspected by: State environmental agency  
Is it OSHA approved with star/merit ranking: False  
Will RMP involve predictive filing: False  
Submission type: First Time  
RMP description: Not reported  
Facility has no accident hist. recs: True  
Foreign owner's address: Not reported  
Foreign owner's zip: Not reported  
Foreign owner's country: Not reported  
Claim # of employees as CBI: False  
Date RMP accepted by EPA: 1999-07-12 00:00:00  
Date of error Report: Not reported  
Date RMP received: 1999-06-21 00:00:00  
Does RMP contain graphics files: False  
Does RMP contain attachments: False  
Was certification letter received: True  
RMP submission method: RMP\*Submit  
Does RMP contain CBI substantiation: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, L.L.C. (Continued)**

**1011814101**

Does RMP contain electronic waiver: False  
Date RMP postmarked: 1999-06-18 00:00:00  
Is RMP complete: True  
Date of de-registration: Not reported  
Date de-registration is effective: Not reported  
Anniversary date: 2004-06-18 00:00:00  
Does RMP contain CBI data: False  
Does RMP contain unsanitized CBI version: False  
RMP version #: 1.1.7  
FRS latitude: 33.768889999999999  
FRS longitude: -118.09972  
FRS Description: FACILITY CENTROID  
FRS Method: INTERPOLATION-MAP

RMP:

Process ID: 11449  
NA & Industry Classification Sys.code(s): 221112  
NAICS code description: Fossil Fuel Electric Power Generation  
Optional facility description: NOx Reduction by NH3  
Program level: 2  
Record contains CBI data: False

RMP:

Chemical name: Ammonia (conc 20% or greater)  
Process chemical qty in 100s lbs: 157100  
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported  
Physical state: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: Not reported  
Stability class: Not reported  
Topography: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported  
Physical state: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: Not reported  
Stability class: Not reported  
Topography: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**AES ALAMITOS, L.L.C. (Continued)**

**1011814101**

Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
RMP:	
Endpoint used:	Not reported
LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, L.L.C. (Continued)**

**1011814101**

Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent hazard review/update: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Expected completion of review changes: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Record has CBI data: Not reported  
Date of most recent changes: Not reported  
Chemical name: Public OCA Chemical  
Process chemical qty in 100s lbs: 0  
Process flammable chemical name: Not reported

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 3  
Stability class: D  
Topography: b  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Emergency shutdown

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: 10  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 1.5  
Stability class: F  
Topography: a  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported

**RMP:**

Endpoint used: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, L.L.C. (Continued)**

**1011814101**

LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported

**RMP:**

Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AES ALAMITOS, L.L.C. (Continued)**

**1011814101**

Expected completion of review changes: Not reported  
 Training: Not reported  
 Competency testing: Not reported  
 Most recent maintenance review date: Not reported  
 Most recent equipment inspection date: Not reported  
 Equipment tested: Not reported  
 Most recent compliance audit date: Not reported  
 Expected date of audit completion: Not reported  
 Most recent incident investigation: Not reported  
 Expected date of investigation changes: Not reported  
 Record has CBI data: Not reported  
 Date of most recent changes: Not reported

RMP:

ER plan: Not reported  
 ER plan most recent review date: 1998-06-15 00:00:00  
 ER plan most recent employee training date: 1999-06-03 00:00:00  
 Local agency coordinating ER plan: Long Beach Fire Department  
 Telephone of the coordinating local agency: 5625702560  
 Federal regulation: True  
 OSHA 1910 120: True  
 SPCC: True  
 RCRA: True  
 OPA 90: False  
 EPCRA: True  
 Other Regulations: California Hazardous Materials Business Emergency Plan and Inventory law (CA H&S C

**A14  
 Target  
 Property**

**AES ALAMITOS, LLC  
 690 NORTH STUDEBAKER ROAD  
 LONG BEACH, CA 90803**

**RMP 1011814102  
 N/A**

**Site 14 of 42 in cluster A**

**Actual:  
 11 ft.**

RMP:

Facility ID: 1000005357  
 LEPC city: California Region 1 LEPC  
 Facility decimal latitude: 33.768889  
 Facility decimal longitude: -118.101111  
 Is facility in county box: T  
 LatLong method: I2  
 LatLong description: CE  
 Home page web address: www.aes.com  
 Facility telephone: 5624937384  
 Facility email: Not reported  
 Facility DUNS #: 43857812  
 Parent's name: AES Corporation  
 Partner's name: Not reported  
 Parent's DUNS #: 0  
 Partner's DUNS #: 0  
 Operator's name: AES Alamitos, LLC  
 Operator's telephone: 5624937891  
 Operator's address: 690 North Studebaker Road  
 Operators City,St,Zip: Long Beach, CA 90803 2221  
 RMP implementation contact: Steven Maghy  
 RMP contact title: AES Alamitos Corp Officer/Env. Mgr  
 Emergency contact: Steven Maghy  
 Emergency contact title: Environmental Manager  
 Emergency contact telephone: 5624937384

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

24 hour emergency telephone: 5627156980  
Emergency contact ext/pin #: Not reported  
Number of full time employees: 80  
EPA ID: CAR000038265  
Facility ID provided by CEPPO: 100000115083  
Is facility covered by OSHA PSM: F  
Is facility covered by EPCRA 302: F  
Is fac. covered by CAA Title V 112(2): T  
Clean air op. permit/State ID: 115394  
Last safety insp. dat: 2003-06-30 00:00:00  
Inspected by: SCAQMD and Long Beach CUPA  
Is it OSHA approved with star/merit ranking: False  
Will RMP involve predictive filing: False  
Submission type: Resubmission  
RMP description: Not reported  
Facility has no accident hist. recs: False  
Foreign owner's address: Not reported  
Foreign owner's zip: Not reported  
Foreign owner's country: Not reported  
Claim # of employees as CBI: False  
Date RMP accepted by EPA: 2009-06-16 00:00:00  
Date of error Report: Not reported  
Date RMP received: 2009-06-16 00:00:00  
Does RMP contain graphics files: False  
Does RMP contain attachments: False  
Was certification letter received: True  
RMP submission method: RMP\*eSubmit  
Does RMP contain CBI substantiation: False  
Does RMP contain electronic waiver: False  
Date RMP postmarked: 2009-06-16 00:00:00  
Is RMP complete: True  
Date of de-registration: Not reported  
Date de-registration is effective: Not reported  
Anniversary date: 2014-06-16 00:00:00  
Does RMP contain CBI data: False  
Does RMP contain unsanitized CBI version: False  
RMP version #: 1.0  
FRS latitude: 33.768889999999999  
FRS longitude: -118.09972  
FRS Description: FACILITY CENTROID  
FRS Method: INTERPOLATION-MAP

**RMP:**

Process ID: 1000006400  
NA & Industry Classification Sys.code(s): 221112  
NAICS code description: Fossil Fuel Electric Power Generation  
Optional facility description: 3 NH3 NOx SCR:Units 1-6  
Program level: 2  
Record contains CBI data: False

**RMP:**

Chemical name: Ammonia (conc 20% or greater)  
Process chemical qty in 100s lbs: 185000  
Process flammable chemical name: Not reported

**RMP:**

Percent weight of chemical: Not reported  
Physical state: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
RMP:	
Endpoint used:	Not reported
LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent changes by mgmt: Not reported  
Date of most recent review/update: Not reported  
Date of pre-start review: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Date of participation plan review: Not reported  
Date of hot work permit review: Not reported  
Date of contractor safety review: Not reported  
Date of contractor safety eval. review: Not reported  
Record has CBI data: Not reported  
Safety review date: Not reported  
Federal Regulation: Not reported  
Federal regulation comment: Not reported  
Major Hazard: Not reported  
Process Control: Not reported  
Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent hazard review/update: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Expected completion of review changes: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Record has CBI data: Not reported  
Date of most recent changes: Not reported  
Chemical name: Public OCA Chemical  
Process chemical qty in 100s lbs: 0  
Process flammable chemical name: Not reported

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Stability class:	D
Topography:	a
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Emergency shutdown
RMP:	
Percent weight of chemical:	29.4
Physical state:	b
Analytical basic:	EPA's RMP*Comp(TM)
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	1957
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	1.5
Stability class:	F
Topography:	a
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Dikes
RMP:	
Endpoint used:	Not reported
LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent changes by mgmt: Not reported  
Date of most recent review/update: Not reported  
Date of pre-start review: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Date of participation plan review: Not reported  
Date of hot work permit review: Not reported  
Date of contractor safety review: Not reported  
Date of contractor safety eval. review: Not reported  
Record has CBI data: Not reported  
Safety review date: Not reported  
Federal Regulation: Not reported  
Federal regulation comment: Not reported  
Major Hazard: Not reported  
Process Control: Not reported  
Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent hazard review/update: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Expected completion of review changes: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Record has CBI data: Not reported  
Date of most recent changes: Not reported

**RMP:**

ER plan: Not reported  
ER plan most recent review date: 2009-05-12 00:00:00  
ER plan most recent employee training date: 2008-10-30 00:00:00  
Local agency coordinating ER plan: Long Beach CUPA  
Telephone of the coordinating local agency: 5625704285  
Federal regulation: True  
OSHA 1910 120: False  
SPCC: True  
RCRA: True  
OPA 90: False  
EPCRA: True  
Other Regulations: CalARP (19 CCR 2740 et seq), CA Hazardous Materials Business Emergency Plan & In

**RMP:**

Facility ID: 1000044516  
LEPC city: California Region 1 LEPC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Facility decimal latitude: 33.768889  
Facility decimal longitude: -118.101111  
Is facility in county box: T  
LatLong method: I2  
LatLong description: CE  
Home page web address: www.aes.com  
Facility telephone: 5624937784  
Facility email: coury.mckinlay@aes.com  
Facility DUNS #: 43857812  
Parent's name: AES Southland, LLC  
Partner's name: Not reported  
Parent's DUNS #: 0  
Partner's DUNS #: 0  
Operator's name: AES Alamitos, LLC  
Operator's telephone: 5624937891  
Operator's address: 690 North Studebaker Road  
Operators City,St,Zip: Long Beach, CA 90803 2221  
RMP implementation contact: Stephen O'Kane  
RMP contact title: Mgr, Sustainability/Reg Compliance  
Emergency contact: Jeff Evans  
Emergency contact title: Plant Manager  
Emergency contact telephone: 5624937784  
24 hour emergency telephone: 3108507584  
Emergency contact ext/pin #: Not reported  
Number of full time employees: 86  
EPA ID: CAR000038265  
Facility ID provided by CEPP0: 100000115083  
Is facility covered by OSHA PSM: F  
Is facility covered by EPCRA 302: T  
Is fac. covered by CAA Title V 112(2): T  
Clean air op. permit/State ID: 115394  
Last safety insp. dat: 2003-05-14 00:00:00  
Inspected by: Long Beach CUPA  
Is it OSHA approved with star/merit ranking: False  
Will RMP involve predictive filing: False  
Submission type: Resubmission  
RMP description: Not reported  
Facility has no accident hist. recs: False  
Foreign owner's address: Not reported  
Foreign owner's zip: Not reported  
Foreign owner's country: Not reported  
Claim # of employees as CBI: False  
Date RMP accepted by EPA: 2014-06-18 00:00:00  
Date of error Report: Not reported  
Date RMP received: 2014-06-18 00:00:00  
Does RMP contain graphics files: False  
Does RMP contain attachments: False  
Was certification letter received: True  
RMP submission method: RMP\*eSubmit  
Does RMP contain CBI substantiation: False  
Does RMP contain electronic waiver: False  
Date RMP postmarked: 2014-06-18 00:00:00  
Is RMP complete: True  
Date of de-registration: Not reported  
Date de-registration is effective: Not reported  
Aniversary date: 2019-06-18 00:00:00  
Does RMP contain CBI data: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Does RMP contain unsanitized CBI version: False  
RMP version #: 1.0  
FRS latitude: 33.768889999999999  
FRS longitude: -118.09972  
FRS Description: FACILITY CENTROID  
FRS Method: INTERPOLATION-MAP

RMP:

Process ID: 1000054980  
NA & Industry Classification Sys.code(s): 221112  
NAICS code description: Fossil Fuel Electric Power Generation  
Optional facility description: 3 NH3 NOx SCR:Units 1-6  
Program level: 2  
Record contains CBI data: False

RMP:

Chemical name: Ammonia (conc 20% or greater)  
Process chemical qty in 100s lbs: 185000  
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported  
Physical state: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: Not reported  
Stability class: Not reported  
Topography: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported  
Physical state: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: Not reported  
Stability class: Not reported  
Topography: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported  
LFL value: Not reported  
Analytical basic: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
<b>RMP:</b>	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Record has CBI data: Not reported  
Date of most recent changes: Not reported  
Chemical name: Public OCA Chemical  
Process chemical qty in 100s lbs: 0  
Process flammable chemical name: Not reported

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 3  
Stability class: D  
Topography: a  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Emergency shutdown

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: 1957  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 1.5  
Stability class: F  
Topography: a  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Dikes

**RMP:**

Endpoint used: Not reported  
LFL value: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Record has CBI data: Not reported  
Date of most recent changes: Not reported

RMP:

ER plan: Not reported  
ER plan most recent review date: 2014-05-14 00:00:00  
ER plan most recent employee training date: 2013-11-07 00:00:00  
Local agency coordinating ER plan: Long Beach CUPA  
Telephone of the coordinating local agency: 5625704285  
Federal regulation: True  
OSHA 1910 120: False  
SPCC: True  
RCRA: True  
OPA 90: False  
EPCRA: True  
Other Regulations: CalARP (19 CCR 2740 et seq), CA Hazardous Materials Business Emergency Plan & In

RMP:

Facility ID: 33563  
LEPC city: California Region 1 LEPC  
Facility decimal latitude: 33.768889  
Facility decimal longitude: -118.101111  
Is facility in county box: T  
LatLong method: I2  
LatLong description: CE  
Home page web address: www.aes.com  
Facility telephone: 5624937384  
Facility email: Not reported  
Facility DUNS #: 43857812  
Parent's name: AES Corporation  
Partner's name: Not reported  
Parent's DUNS #: 0  
Partner's DUNS #: 0  
Operator's name: AES Alamitos, LLC  
Operator's telephone: 5624937891  
Operator's address: 690 North Studebaker Road  
Operators City,St,Zip: Long Beach, CA 90803 2221  
RMP implementation contact: Steven Maghy  
RMP contact title: AES Alamitos Corp Officer/Env. Mgr  
Emergency contact: Steven Maghy  
Emergency contact title: Environmental Manager  
Emergency contact telephone: 5624937384  
24 hour emergency telephone: 5627156980  
Emergency contact ext/pin #: Not reported  
Number of full time employees: 80  
EPA ID: CAR000038265  
Facility ID provided by CEPPO: 100000115083  
Is facility covered by OSHA PSM: F  
Is facility covered by EPCRA 302: F  
Is fac. covered by CAA Title V 112(2): T  
Clean air op. permit/State ID: 115394  
Last safety insp. dat: 2003-06-30 00:00:00  
Inspected by: SCAQMD and Long Beach CUPA  
Is it OSHA approved with star/merit ranking: False  
Will RMP involve predictive filing: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Submission type: Resubmission  
RMP description: Aqueous Ammonia SCR DeNOx System  
Facility has no accident hist. recs: True  
Foreign owner's address: Not reported  
Foreign owner's zip: Not reported  
Foreign owner's country: Not reported  
Claim # of employees as CBI: False  
Date RMP accepted by EPA: 2004-07-21 00:00:00  
Date of error Report: Not reported  
Date RMP received: 2004-06-21 00:00:00  
Does RMP contain graphics files: False  
Does RMP contain attachments: False  
Was certification letter received: True  
RMP submission method: RMP\*Submit  
Does RMP contain CBI substantiation: False  
Does RMP contain electronic waiver: False  
Date RMP postmarked: 2004-06-17 00:00:00  
Is RMP complete: True  
Date of de-registration: Not reported  
Date de-registration is effective: Not reported  
Anniversary date: 2009-06-17 00:00:00  
Does RMP contain CBI data: False  
Does RMP contain unsanitized CBI version: False  
RMP version #: 3.1  
FRS latitude: 33.768889999999999  
FRS longitude: -118.09972  
FRS Description: FACILITY CENTROID  
FRS Method: INTERPOLATION-MAP

**RMP:**

Process ID: 48397  
NA & Industry Classification Sys.code(s): 221112  
NAICS code description: Fossil Fuel Electric Power Generation  
Optional facility description: 3 NH3 NOx SCR:Units 1-6  
Program level: 2  
Record contains CBI data: False

**RMP:**

Chemical name: Public OCA Chemical  
Process chemical qty in 100s lbs: 0  
Process flammable chemical name: Not reported

**RMP:**

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 3  
Stability class: D  
Topography: a  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Active mitigation: Emergency shutdown

RMP:

Percent weight of chemical: 29.4  
Physical state: b  
Analytical basic: EPA's RMP\*Comp(TM)  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: 1957  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: 1.5  
Stability class: F  
Topography: a  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Dikes

RMP:

Endpoint used: Not reported  
LFL value: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Not reported

RMP:

Analytical basic: Not reported  
Quantity released in pounds: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Safety review date: Not reported  
Most recent PHA date: Not reported  
Process Hazard Analysis: Not reported  
Expected PHA changes completion date: Not reported  
Major Hazard: Not reported  
Process Control: Not reported  
Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent changes by mgmt: Not reported  
Date of most recent review/update: Not reported  
Date of pre-start review: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
Chemical name:	Ammonia (conc 20% or greater)
Process chemical qty in 100s lbs:	185000
Process flammable chemical name:	Not reported

**RMP:**

Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported

**RMP:**

Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Scenario: Not reported  
Quantity released in pounds: Not reported  
Release duration in minutes: Not reported  
Release rate in pounds per second: Not reported  
Wind speed in meters/second: Not reported  
Stability class: Not reported  
Topography: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported  
LFL value: Not reported  
Analytical basic: Not reported  
Scenario: Not reported  
Quantity released in pounds: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Active mitigation: Not reported

RMP:

Analytical basic: Not reported  
Quantity released in pounds: Not reported  
Distance to endpoint in miles: Not reported  
Residential population: Not reported  
Public receptors: Not reported  
Environmental receptors: Not reported  
Passive mitigation: Not reported  
Safety review date: Not reported  
Most recent PHA date: Not reported  
Process Hazard Analysis: Not reported  
Expected PHA changes completion date: Not reported  
Major Hazard: Not reported  
Process Control: Not reported  
Mitigation Systems: Not reported  
Monitoring/Detection: Not reported  
Changes since the last process hazard analysis: Not reported  
Most recent review of op. procedures: Not reported  
Most recent training progs review/update: Not reported  
Training: Not reported  
Competency testing: Not reported  
Most recent maintenance review date: Not reported  
Most recent equipment inspection date: Not reported  
Equipment tested: Not reported  
Most recent changes by mgmt: Not reported  
Date of most recent review/update: Not reported  
Date of pre-start review: Not reported  
Most recent compliance audit date: Not reported  
Expected date of audit completion: Not reported  
Most recent incident investigation: Not reported  
Expected date of investigation changes: Not reported  
Date of participation plan review: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AES ALAMITOS, LLC (Continued)**

**1011814102**

Date of hot work permit review: Not reported  
 Date of contractor safety review: Not reported  
 Date of contractor safety eval. review: Not reported  
 Record has CBI data: Not reported  
 Safety review date: Not reported  
 Federal Regulation: Not reported  
 Federal regulation comment: Not reported  
 Major Hazard: Not reported  
 Process Control: Not reported  
 Mitigation Systems: Not reported  
 Monitoring/Detection: Not reported  
 Changes since the last process hazard analysis: Not reported  
 Most recent hazard review/update: Not reported  
 Most recent review of op. procedures: Not reported  
 Most recent training progs review/update: Not reported  
 Expected completion of review changes: Not reported  
 Training: Not reported  
 Competency testing: Not reported  
 Most recent maintenance review date: Not reported  
 Most recent equipment inspection date: Not reported  
 Equipment tested: Not reported  
 Most recent compliance audit date: Not reported  
 Expected date of audit completion: Not reported  
 Most recent incident investigation: Not reported  
 Expected date of investigation changes: Not reported  
 Record has CBI data: Not reported  
 Date of most recent changes: Not reported

**RMP:**

ER plan: Not reported  
 ER plan most recent review date: 2004-02-25 00:00:00  
 ER plan most recent employee training date: 2004-03-05 00:00:00  
 Local agency coordinating ER plan: Long Beach CUPA  
 Telephone of the coordinating local agency: 5625704285  
 Federal regulation: True  
 OSHA 1910 120: False  
 SPCC: True  
 RCRA: True  
 OPA 90: False  
 EPCRA: True  
 Other Regulations: CalARP (19 CCR 2740 et seq), CA Hazardous Materials Business Emergency Plan & In

**A15  
 Target  
 Property**

**690 STUDEBAKER RD GENERATING STATIONS  
 LONG BEACH, CA 90803**

**CA CHMIRS S105641902  
 N/A**

**Site 15 of 42 in cluster A**

**Actual:  
 11 ft.**

**CHMIRS:**  
 OES Incident Number: 006784  
 OES notification: Not reported  
 OES Date: 2/14/1995  
 OES Time: 01:13:24 PM  
 Incident Date: Not reported  
**Date Completed: Not reported**  
 Property Use: Not reported  
 Agency Id Number: Not reported  
 Agency Incident Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105641902

Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: YES  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: southern cal edison will supervise  
Containment: Not reported  
What Happened: Not reported  
Type: PETROLEUM  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1995  
Agency: southern cal edison  
Incident Date: 0200/14feb95  
Admin Agency: Not reported  
Amount: approx 2,000 gals  
Contained: NO  
Site Type: OTHER  
E Date: Not reported  
Substance: hydraulic oil  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: NO  
Number of Injuries: NO  
Number of Fatalities: NO  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fataals: Not reported  
Comments: Not reported  
Description: coupling on boiler was faulty causing the release of oil in the feed

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

(Continued)

S105641902

pump, spill stayed on concrete within facility

**A16**  
 Target  
 Property

**690 STUDEBAKER RD  
 LONG BEACH, CA 90803**

**ERNS 2011967975  
 N/A**

**Site 16 of 42 in cluster A**

**Actual:  
 11 ft.**

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

**A17**  
 Target  
 Property

**US BUREAU REC. PILOT PROJ.  
 690 N STUDEBAKER RD  
 LONG BEACH, CA 90803**

**CA WDS S106800604  
 N/A**

**Site 17 of 42 in cluster A**

**Actual:  
 11 ft.**

WDS:  
 Facility ID: Los Angeles River 197600038  
 Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
 Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
 NPDES Number: CAG994005 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
 Subregion: 4  
 Facility Telephone: 3109543700  
 Facility Contact: Jim Burton  
 Agency Name: PSOMAS  
 Agency Address: Not reported  
 Agency City,St,Zip: 0  
 Agency Contact: Not reported  
 Agency Telephone: Not reported  
 Agency Type: Private  
 SIC Code: 8711  
 SIC Code 2: Not reported  
 Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
 Primary Waste: MISCEL  
 Waste Type2: Not reported  
 Waste2: Miscellaneous (Includes wastes from dewatering, recreational lake overflow, swimming pool wastes, water ride wastewater, ground water seepage and other wastes of this type)  
 Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Design Flow: 0  
 Baseline Flow: 0  
 Reclamation: No reclamation requirements associated with this facility.  
 POTW: The facility is not a POTW.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**US BUREAU REC. PILOT PROJ. (Continued)**

**S106800604**

Treat To Water: 0  
 Complexity: Not reported

**A18**      **AES ALAMITOS L.L.C.**  
**Target**    **690 N STUDEBAKER ROAD**  
**Property**   **LONG BEACH, CA 90803**

**CA AST**    **A100271530**  
**N/A**

**Site 18 of 42 in cluster A**

**Actual:**      **AST:**  
**11 ft.**        Certified Unified Program Agencies: Long Beach  
                   Owner: AES ALAMITOS, L.L.C.  
                   Total Gallons: 296,752

**A19**      **ALAMITOS GENERATING STATION**  
**Target**    **690 N STUDEBAKER RD**  
**Property**   **LONG BEACH, CA 90815**

**CA HIST UST**    **U001566347**  
**N/A**

**Site 19 of 42 in cluster A**

**Actual:**      **HIST UST:**  
**11 ft.**        Region: STATE  
                   Facility ID: 00000066347  
                   Facility Type: Other  
                   Other Type: ELECTRIC UTILITY  
                   Contact Name: D.G. AREGHINI  
                   Telephone: 2134300561  
                   Owner Name: SOUTHERN CALIFORNIA EDISON COM  
                   Owner Address: 2244 WALNUT GROVE AVENUE  
                   Owner City,St,Zip: ROSEMEAD, CA 91770  
                   Total Tanks: 0004

                  Tank Num: 001  
                   Container Num: 435  
                   Year Installed: Not reported  
                   Tank Capacity: 00000000  
                   Tank Used for: WASTE  
                   Type of Fuel: 5  
                   Container Construction Thickness: X  
                   Leak Detection: None

                  Tank Num: 001  
                   Container Num: 84  
                   Year Installed: Not reported  
                   Tank Capacity: 01200000  
                   Tank Used for: WASTE  
                   Type of Fuel: Not reported  
                   Container Construction Thickness: Not reported  
                   Leak Detection: Visual

                  Tank Num: 002  
                   Container Num: 503  
                   Year Installed: Not reported  
                   Tank Capacity: 00000000  
                   Tank Used for: PRODUCT  
                   Type of Fuel: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**U001566347**

Container Construction Thickness:	X
Leak Detection:	None
Tank Num:	002
Container Num:	85
Year Installed:	Not reported
Tank Capacity:	00913000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	504
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	86
Year Installed:	Not reported
Tank Capacity:	00935000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	004
Container Num:	87
Year Installed:	1978
Tank Capacity:	00225500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	004
Container Num:	505
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	005
Container Num:	88
Year Installed:	1978
Tank Capacity:	00323950
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**U001566347**

Tank Num:	006
Container Num:	94
Year Installed:	Not reported
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	007
Container Num:	90
Year Installed:	1982
Tank Capacity:	00003600
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	008
Container Num:	91
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	009
Container Num:	92
Year Installed:	1979
Tank Capacity:	00001728
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	010
Container Num:	93
Year Installed:	1956
Tank Capacity:	00001075
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	011
Container Num:	94
Year Installed:	Not reported
Tank Capacity:	00003000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	012
Container Num:	95
Year Installed:	1956

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**U001566347**

Tank Capacity: 00001700  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 013  
Container Num: 96  
Year Installed: 1956  
Tank Capacity: 00001600  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 014  
Container Num: 97  
Year Installed: 1961  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 015  
Container Num: 98  
Year Installed: 1961  
Tank Capacity: 00000915  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 016  
Container Num: 99  
Year Installed: 1966  
Tank Capacity: 00003400  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 017  
Container Num: 100  
Year Installed: Not reported  
Tank Capacity: 00004350  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 018  
Container Num: 101  
Year Installed: 1961  
Tank Capacity: 00003350  
Tank Used for: PRODUCT  
Type of Fuel: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**U001566347**

Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 019  
Container Num: 102  
Year Installed: 1961  
Tank Capacity: 00001600  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 020  
Container Num: 103  
Year Installed: Not reported  
Tank Capacity: 00003650  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 021  
Container Num: 104  
Year Installed: 1966  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 022  
Container Num: 105  
Year Installed: 1966  
Tank Capacity: 00003660  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 023  
Container Num: 106  
Year Installed: 1966  
Tank Capacity: 00004900  
Tank Used for: WASTE  
Type of Fuel: 06  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Tank Num: 024  
Container Num: 369  
Year Installed: 1961  
Tank Capacity: 00003350  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**U001566347**

Tank Num: 025  
Container Num: 370  
Year Installed: Not reported  
Tank Capacity: 00003650  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Visual

**A20**  
**Target**  
**Property**

**690 STUDEBAKER RD  
LONG BEACH, CA**

**ERNS 2004742687  
N/A**

**Site 20 of 42 in cluster A**

**Actual:**  
**11 ft.**

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

**A21**  
**Target**  
**Property**

**STUDEBAKER LB, LLC  
690 N STUDEBAKER RD  
LONG BEACH, CA 90803**

**CA HAZNET S113463198  
N/A**

**Site 21 of 42 in cluster A**

**Actual:**  
**11 ft.**

HAZNET:  
envid: S113463198  
Year: 2010  
GEPaid: CAC002658387  
Contact: TOM DEAN  
Telephone: 5624277383  
Mailing Name: Not reported  
Mailing Address: 3626 LONG BEACH BLVD  
Mailing City,St,Zip: LONG BEACH, CA 90807  
Gen County: Not reported  
TSD EPA ID: CAD982444481  
TSD County: Not reported  
Waste Category: Other organic solids  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 16.856  
Facility County: Los Angeles  
  
envid: S113463198  
Year: 2010  
GEPaid: CAC002658387  
Contact: TOM DEAN  
Telephone: 5624277383  
Mailing Name: Not reported  
Mailing Address: 3626 LONG BEACH BLVD  
Mailing City,St,Zip: LONG BEACH, CA 90807  
Gen County: Not reported  
TSD EPA ID: CAD982444481  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 7.923

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STUDEBAKER LB, LLC (Continued)**

**S113463198**

Facility County: Los Angeles

**A22**  
**Target**  
**Property**

**690 N. STUDEBAKER ROAD  
 LONG BEACH, CA 90803**

**ERNS 2004742660  
 N/A**

**Site 22 of 42 in cluster A**

**Actual:  
 11 ft.**

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

**A23**  
**Target**  
**Property**

**AES ALAMITOS LLC  
 690 STUDEBAKER RD SEE MAP  
 LONG BEACH, CA 90803**

**CA HAZNET S113174156  
 N/A**

**Site 23 of 42 in cluster A**

**Actual:  
 11 ft.**

HAZNET:

envid:	S113174156
Year:	2013
GEPaid:	CAR000038265
Contact:	RA NAE LOVELAND/ENVTL COORD
Telephone:	5624937863
Mailing Name:	Not reported
Mailing Address:	690 N STUDEBAKER RD
Mailing City,St,Zip:	LONG BEACH, CA 908032221
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	4.6
Facility County:	Not reported
envid:	S113174156
Year:	2013
GEPaid:	CAR000038265
Contact:	RA NAE LOVELAND/ENVTL COORD
Telephone:	5624937863
Mailing Name:	Not reported
Mailing Address:	690 N STUDEBAKER RD
Mailing City,St,Zip:	LONG BEACH, CA 908032221
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.65
Facility County:	Not reported
envid:	S113174156
Year:	2013
GEPaid:	CAR000038265
Contact:	RA NAE LOVELAND/ENVTL COORD
Telephone:	5624937863

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AES ALAMITOS LLC (Continued)**

**S113174156**

Mailing Name: Not reported  
Mailing Address: 690 N STUDEBAKER RD  
Mailing City,St,Zip: LONG BEACH, CA 908032221  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Tons: 0.22935  
Facility County: Not reported

envid: S113174156  
Year: 2013  
GEPaid: CAR000038265  
Contact: RA NAE LOVELAND/ENVTL COORD  
Telephone: 5624937863  
Mailing Name: Not reported  
Mailing Address: 690 N STUDEBAKER RD  
Mailing City,St,Zip: LONG BEACH, CA 908032221  
Gen County: Los Angeles  
TSD EPA ID: CAD009007626  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To  
Include On-Site Treatment And/Or Stabilization)  
Tons: 10.4  
Facility County: Not reported

envid: S113174156  
Year: 2013  
GEPaid: CAR000038265  
Contact: RA NAE LOVELAND/ENVTL COORD  
Telephone: 5624937863  
Mailing Name: Not reported  
Mailing Address: 690 N STUDEBAKER RD  
Mailing City,St,Zip: LONG BEACH, CA 908032221  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Tons: 0.109  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
546 additional CA\_HAZNET: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A24**  
**Target** 690 N. STUDEBAKER ROAD  
**Property** LONG BEACH, CA

**ERNS** 2005600693  
N/A

Site 24 of 42 in cluster A

**Actual:** 11 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**A25**  
**Target** SCE-ALAMITOS GEN STA-4 D/W O-C, JOOR, XERX  
**Property** 0690 STUDEBAKER RD  
LONG BEACH, CA

**CA UST** U003661560  
N/A

Site 25 of 42 in cluster A

**Actual:** 11 ft. LONG BEACH UST:  
DATA AS OF 02/25/2014:  
Region: LONG BEACH  
Tanks: 4T  
Tank Test: Dual Walled  
Leak Test: Not reported  
Tank Status: Not reported

**A26**  
**Target** SOUTHERN CALIFORNIA EDISON - LOSALAMITOS  
**Property** 690 STUDEBAKER ROAD  
LONG BEACH, CA 90803

**CA SPILLS 90** S112286813  
N/A

Site 26 of 42 in cluster A

**Actual:** 11 ft. Spills:  
Status: SITE ASSESSMENT  
Contact Name: Not reported  
Contact Phone: Not reported  
Site ID: SLC40710D  
Secondary ID: Not reported  
Cross Street: Not reported  
County: LOS ANGELES  
Longitude: -118099595  
Latitude: 33764826  
Elevation: 2  
  
Staff: MC  
Status: SITE ASSESSMENT  
Substance: TPH

**A27**  
**Target** SO CAL EDISON CO  
**Property** 690 STUDEBAKER ROAD  
LONG BEACH, CA 90815

**CA EMI** S106839612  
N/A

Site 27 of 42 in cluster A

**Actual:** 11 ft. EMI:  
Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SO CAL EDISON CO (Continued)**

**S106839612**

Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 287  
Reactive Organic Gases Tons/Yr: 133  
Carbon Monoxide Emissions Tons/Yr: 458  
NOX - Oxides of Nitrogen Tons/Yr: 2377  
SOX - Oxides of Sulphur Tons/Yr: 218  
Particulate Matter Tons/Yr: 93  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 92

Year: 1990  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 189  
Reactive Organic Gases Tons/Yr: 97  
Carbon Monoxide Emissions Tons/Yr: 292  
NOX - Oxides of Nitrogen Tons/Yr: 1555  
SOX - Oxides of Sulphur Tons/Yr: 373  
Particulate Matter Tons/Yr: 95  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 93

Year: 1995  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 524  
Reactive Organic Gases Tons/Yr: 226  
Carbon Monoxide Emissions Tons/Yr: 339  
NOX - Oxides of Nitrogen Tons/Yr: 1186  
SOX - Oxides of Sulphur Tons/Yr: 21  
Particulate Matter Tons/Yr: 56  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 56

Year: 1996  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 86  
Reactive Organic Gases Tons/Yr: 36  
Carbon Monoxide Emissions Tons/Yr: 320

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SO CAL EDISON CO (Continued)**

**S106839612**

NOX - Oxides of Nitrogen Tons/Yr: 653  
SOX - Oxides of Sulphur Tons/Yr: 21  
Particulate Matter Tons/Yr: 53  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 53

Year: 1997  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 93  
Reactive Organic Gases Tons/Yr: 31  
Carbon Monoxide Emissions Tons/Yr: 284  
NOX - Oxides of Nitrogen Tons/Yr: 718  
SOX - Oxides of Sulphur Tons/Yr: 16  
Particulate Matter Tons/Yr: 47  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 47

Year: 1998  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 103  
Reactive Organic Gases Tons/Yr: 33  
Carbon Monoxide Emissions Tons/Yr: 284  
NOX - Oxides of Nitrogen Tons/Yr: 718  
SOX - Oxides of Sulphur Tons/Yr: 16  
Particulate Matter Tons/Yr: 47  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 47

Year: 1999  
County Code: 19  
Air Basin: SC  
Facility ID: 800125  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 93  
Reactive Organic Gases Tons/Yr: 31  
Carbon Monoxide Emissions Tons/Yr: 284  
NOX - Oxides of Nitrogen Tons/Yr: 718  
SOX - Oxides of Sulphur Tons/Yr: 16  
Particulate Matter Tons/Yr: 47  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 47

Year: 2000

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SO CAL EDISON CO (Continued)**

**S106839612**

County Code: 19  
 Air Basin: SC  
 Facility ID: 800125  
 Air District Name: SC  
 SIC Code: 4911  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 93  
 Reactive Organic Gases Tons/Yr: 31  
 Carbon Monoxide Emissions Tons/Yr: 284  
 NOX - Oxides of Nitrogen Tons/Yr: 718  
 SOX - Oxides of Sulphur Tons/Yr: 16  
 Particulate Matter Tons/Yr: 47  
 Part. Matter 10 Micrometers & Smllr Tons/Yr: 47

**A28**  
**Target**  
**Property**

**AES ALAMITOS**  
**690 STUDEBAKER**  
**LONG BEACH, CA**

**CA UST** **U004220343**  
**N/A**

**Site 28 of 42 in cluster A**

**Actual:**  
**11 ft.**

**LONG BEACH UST:**  
 Region: LONG BEACH  
 Tanks: Not reported  
 Tank Test: Not reported  
 Leak Test: Not reported  
 Tank Status: Not reported

**A29**  
**Target**  
**Property**

**690 N. STUDEBAKER RD.**  
**LONG BEACH, CA**

**CA CHMIRS** **S107450614**  
**N/A**

**Site 29 of 42 in cluster A**

**Actual:**  
**11 ft.**

**CHMIRS:**  
 OES Incident Number: 04-6199  
 OES notification: 11/29/2004  
 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  
 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S107450614

Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Cerritos Channel
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2004
Agency:	AES Alamitos
Incident Date:	11/29/2004 12:00:00 AM
Admin Agency:	Long Beach Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Oil
Gallons:	20
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A tank overflowed during a flushing process. The oil spilled into a storm drain that flows into the Cerritos Channel.
OES Incident Number:	07-2370
OES notification:	04/17/2007
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
<b>Date Completed:</b>	<b>Not reported</b>
Property Use:	Not reported
Agency Id Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S107450614

Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Not reported  
Waterway: Serritos Channel  
Spill Site: Not reported  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 2007  
Agency: AES Alamitos LLC  
Incident Date: 4/17/2007 12:00:00 AM  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Waterways  
E Date: Not reported  
Substance: Nalco 7330  
Gallons: 0.000000  
Ounces: 1  
Unknown: 0  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S107450614**

Fatals: Not reported  
 Comments: Not reported  
 Description: The substance was mixed with 100 gallons of water (.87 PPM).

**A30**  
**Target**  
**Property**

**690 NORTH STUDEBAKER ROAD**  
**LONG BEACH, CA 90804**

**CA CHMIRS** **S108401049**  
**N/A**

**Site 30 of 42 in cluster A**

**Actual:**  
**11 ft.**

CHMIRS:  
 OES Incident Number: 05-0244  
 OES notification: 01/10/2005  
 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  
 More Than Two Substances Involved?: Not reported  
 Resp Agncy Personel # Of Decontaminated: Not reported  
 Responding Agency Personel # Of Injuries: Not reported  
 Responding Agency Personel # Of Fatalities: Not reported  
 Others Number Of Decontaminated: Not reported  
 Others Number Of Injuries: Not reported  
 Others Number Of Fatalities: Not reported  
 Vehicle Make/year: Not reported  
 Vehicle License Number: Not reported  
 Vehicle State: Not reported  
 Vehicle Id Number: Not reported  
 CA DOT PUC/ICC Number: Not reported  
 Company Name: Not reported  
 Reporting Officer Name/ID: Not reported  
 Report Date: Not reported  
 Facility Telephone: Not reported  
 Waterway Involved: Not reported  
 Waterway: Cerritos Channel  
 Spill Site: Not reported  
 Cleanup By: Reporting Party  
 Containment: Not reported  
 What Happened: Not reported  
 Type: Not reported  
 Measure: Not reported  
 Other: Not reported  
 Date/Time: Not reported  
 Year: 2005  
 Agency: Pacific Energy  
 Incident Date: 1/10/200512:00:00 AM  
 Admin Agency: Long Beach Fire Department  
 Amount: Not reported  
 Contained: Yes  
 Site Type: Other

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

(Continued)

S108401049

E Date: Not reported  
 Substance: fuel oil  
 Gallons: 1/4  
 Unknown: 0  
 Substance #2: Not reported  
 Substance #3: Not reported  
 Evacuations: 0  
 Number of Injuries: 0  
 Number of Fatalities: 0  
 #1 Pipeline: Not reported  
 #2 Pipeline: Not reported  
 #3 Pipeline: Not reported  
 #1 Vessel >= 300 Tons: Not reported  
 #2 Vessel >= 300 Tons: Not reported  
 #3 Vessel >= 300 Tons: Not reported  
 Evacs: Not reported  
 Injuries: Not reported  
 Fataals: Not reported  
 Comments: Not reported  
 Description: Released due to an overflow of a sump from the rain. Unknown if it reached water, haven't been able to see anything in the water.

A31  
 Target  
 Property

**ALAMITOS GENERATING STATION**  
**690 NORTH STUDEBAKER ROAD**  
**LONG BEACH, CA 90803**

CA NPDES  
 CA CHMIRS  
 LA Co. Site Mitigation

S109040391  
 N/A

Site 31 of 42 in cluster A

Actual:  
 11 ft.

NPDES:  
 Npdes Number: CA0001139  
 Facility Status: Active  
 Agency Id: 864  
 Region: 4  
 Regulatory Measure Id: 148236  
 Order No: 00-082  
 Regulatory Measure Type: NPDES Permits  
 Place Id: 207266  
 WDID: 4B192111006  
 Program Type: NPDINDLRG  
 Adoption Date Of Regulatory Measure: 06/29/2000  
 Effective Date Of Regulatory Measure: 06/29/2000  
 Expiration Date Of Regulatory Measure: 01/01/2010  
 Termination Date Of Regulatory Measure: Not reported  
 Discharge Name: AES Alamitos LLC  
 Discharge Address: 690 North Studebaker Road  
 Discharge City: Long Beach  
 Discharge State: CA  
 Discharge Zip: 90803  
 RECEIVED DATE: Not reported  
 PROCESSED DATE: Not reported  
 STATUS CODE NAME: Not reported  
 STATUS DATE: Not reported  
 PLACE SIZE: Not reported  
 PLACE SIZE UNIT: Not reported  
 FACILITY CONTACT NAME: Not reported  
 FACILITY CONTACT TITLE: Not reported  
 FACILITY CONTACT PHONE: Not reported  
 FACILITY CONTACT PHONE EXT: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S109040391

FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

CHMIRS:

OES Incident Number:	07-2375
OES notification:	04/17/2007
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
<b>Date Completed:</b>	<b>Not reported</b>
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS GENERATING STATION (Continued)**

**S109040391**

Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Not reported  
Waterway: Cerritos Channel, tributary to San Gabriel River  
Spill Site: Not reported  
Cleanup By: Unknown  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 2007  
Agency: NRC  
Incident Date: 4/17/2007 12:00:00 AM  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Utilities/Substation  
E Date: Not reported  
Substance: Cooling Water containing NALCO  
Gallons: 100  
Unknown: 0  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fatafs: Not reported  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S109040391

Description: Per the NRC report, "THE CALLER IS REPORTING THAT DURING FILLING OPERATIONS, AN UNKNOWN AMOUNT OF COOLING WATER OVERFLOWED FROM A STORAGE TANK. APPROXIMATELY 100 GALLONS OF THE PRODUCT ENTERED THE FACILITY'S INTAKE AND THEN DISCHARGED INTO THE CERRITOS CHANNEL. IN THAT 100 GALLONS THERE WAS .0001 OF A GALLON OF A PRODUCT CALLED NALCO 7330 ( CAS 26172-55-4 )." Per the NRC report, "REMEDIATION ACTIONS" indicate "VAC TRUCK WAS USED TO CLEAN UP THE PRODUCT."

OES Incident Number: '10-7700  
OES notification: 12/21/2010  
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  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: Los Ceritos Channel  
Spill Site: Utilities/Substation  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Unknown  
Other: Not reported  
Date/Time: 1010  
Year: 2010  
Agency: AES Alamitos  
Incident Date: 12/21/2010  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Los Ceritos Channel  
E Date: Not reported  
Substance: Unknown Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ALAMITOS GENERATING STATION (Continued)

S109040391

Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states a sheen has developed in his intake channel number 5. Caller states he believes this is oil residue from the roadway caused by a high rain volume. Caller states booms have been applied.
OES Incident Number:	14-3736
OES notification:	07/02/2014
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
<b>Date Completed:</b>	<b>Not reported</b>
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Gabriel River
Spill Site:	Utilities/Substation
Cleanup By:	No
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

**ALAMITOS GENERATING STATION (Continued)**

**S109040391**

Measure: Not reported  
Other: Not reported  
Type: PETROLEUM  
Measure: Cup(s)  
Other: Not reported  
Date/Time: 800  
Year: 2014  
Agency: AES  
Incident Date: 7/2/2014  
Admin Agency: Not reported  
Amount: Not reported  
Contained: Yes  
Site Type: San Gabriel River  
E Date: Not reported  
Substance: Bearing Oil  
Quantity Released: 0.5  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: No  
#2 Pipeline: No  
#3 Pipeline: No  
#1 Vessel >= 300 Tons: No  
#2 Vessel >= 300 Tons: No  
#3 Vessel >= 300 Tons: No  
Evacs: No  
Injuries: Mechanical  
Fataals: No  
Comments: Not reported  
Description: RP states that approx 0.5 cup of bearing oil was released from a circulation pump into the San Gabriel River.

LA Co. Site Mitigation:

Facility ID: Not reported  
Site ID: Not reported  
Jurisdiction: Not reported  
Case ID: Not reported  
Abated: Not reported  
Assigned To: Not reported  
Entered Date: Not reported

**A32  
Target  
Property**

**EDISON O AND M SERVICES  
690 N STUDEBAKER RD BLDG 2  
LONG BEACH, CA 90803**

**CA HAZNET S113175839  
N/A**

**Site 32 of 42 in cluster A**

**Actual:  
11 ft.**

HAZNET:  
envid: S113175839  
Year: 2001  
GEPaid: CAR000096438  
Contact: Gregory Hoxeng  
Telephone: 9094506774  
Mailing Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EDISON O AND M SERVICES (Continued)**

**S113175839**

Mailing Address: 955 Overland Ct  
Mailing City,St,Zip: San Dimas, CA 91773  
Gen County: Not reported  
TSD EPA ID: CAD050806850  
TSD County: Not reported  
Waste Category: Other organic solids  
Disposal Method: Transfer Station  
Tons: 0.2  
Facility County: Los Angeles

envid: S113175839  
Year: 2001  
GEPaid: CAR000096438  
Contact: Gregory Hoxeng  
Telephone: 9094506774  
Mailing Name: Not reported  
Mailing Address: 955 Overland Ct  
Mailing City,St,Zip: San Dimas, CA 91773  
Gen County: Not reported  
TSD EPA ID: CAD050806850  
TSD County: Not reported  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Transfer Station  
Tons: 0.1  
Facility County: Los Angeles

envid: S113175839  
Year: 2001  
GEPaid: CAR000096438  
Contact: Gregory Hoxeng  
Telephone: 9094506774  
Mailing Name: Not reported  
Mailing Address: 955 Overland Ct  
Mailing City,St,Zip: San Dimas, CA 91773  
Gen County: Not reported  
TSD EPA ID: CAD050806850  
TSD County: Not reported  
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: Transfer Station  
Tons: 0.15  
Facility County: Los Angeles

envid: S113175839  
Year: 2001  
GEPaid: CAR000096438  
Contact: Gregory Hoxeng  
Telephone: 9094506774  
Mailing Name: Not reported  
Mailing Address: 955 Overland Ct  
Mailing City,St,Zip: San Dimas, CA 91773  
Gen County: Not reported  
TSD EPA ID: CAD050806850  
TSD County: Not reported  
Waste Category: Off-specification, aged or surplus organics  
Disposal Method: Transfer Station  
Tons: 0.2  
Facility County: Los Angeles



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Y
RECEIVING WATER NAME:	Los Cerritos Channel Intake Canal
CERTIFIER NAME:	Ngiabi Gicuhi
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	20-NOV-12
PRIMARY SIC:	4226-Special Warehousing and Storage, NEC
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	351299
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I021763
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/26/2008
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Plains West Coast Terminals LLC
Discharge Address:	5900 Cherry Ave
Discharge City:	Long Beach
Discharge State:	California
Discharge Zip:	90805
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

OPERATOR STATE: Not reported  
OPERATOR ZIP: Not reported  
OPERATOR CONTACT NAME: Not reported  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: Not reported  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Not reported  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: Not reported  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: Not reported  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported  
CONSTYPE CABLE LINE IND: Not reported  
CONSTYPE COMM LINE IND: Not reported  
CONSTYPE COMMERTIAL IND: Not reported  
CONSTYPE ELECTRICAL LINE IND: Not reported  
CONSTYPE GAS LINE IND: Not reported  
CONSTYPE INDUSTRIAL IND: Not reported  
CONSTYPE OTHER DESCRIPTION: Not reported  
CONSTYPE OTHER IND: Not reported  
CONSTYPE RECONS IND: Not reported  
CONSTYPE RESIDENTIAL IND: Not reported  
CONSTYPE TRANSPORT IND: Not reported  
CONSTYPE UTILITY DESCRIPTION: Not reported  
CONSTYPE UTILITY IND: Not reported  
CONSTYPE WATER SEWER IND: Not reported  
DIR DISCHARGE USWATER IND: Not reported  
RECEIVING WATER NAME: Not reported  
CERTIFIER NAME: Not reported  
CERTIFIER TITLE: Not reported  
CERTIFICATION DATE: Not reported  
PRIMARY SIC: Not reported  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

**HIST UST:**

Region: STATE  
Facility ID: 00000022165  
Facility Type: Other  
Other Type: ELECTIC UTILITY  
Contact Name: M. A. FAVARO  
Telephone: 8185721801  
Owner Name: SOUTHERN CALIFORNIA EDISON CO.  
Owner Address: 2244 WALNUT GROVE AVENUE  
Owner City,St,Zip: ROSEMEAD, CA 91770  
Total Tanks: 0002  
  
Tank Num: 001  
Container Num: 36

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)

U001570459

Year Installed: 1972  
Tank Capacity: 00001100  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Container Construction Thickness: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 37  
Year Installed: 1968  
Tank Capacity: 00001100  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Container Construction Thickness: Not reported  
Leak Detection: None

CHMIRS:

OES Incident Number: 98-3807  
OES notification: 08/20/1998  
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  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Reporting Party  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)

U001570459

Year: 1998  
Agency: Edison Pipeline  
Incident Date: 8/20/1998 12:00:00 AM  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Pipe Line  
E Date: Not reported  
Substance: #6 fuel oil  
BBLs: 5  
Gallons: 0.000000  
Unknown: 0  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fatalities: Not reported  
Comments: Not reported  
Description: Ruptured pipeline at a generating station is suspected to be cause of release. Investigation is still on going. Flow is stopped and contained. Cleanup crews enroute. Oil did make it to water (intake for AES Alamitas Generating station) which feeds from the San Gabriel River. It has not flowed back into the river.

OES Incident Number: 11-1018  
OES notification: 02/19/2011  
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  
More Than Two Substances Involved?: Not reported  
Resp Agency Personnel # Of Decontaminated: Not reported  
Responding Agency Personnel # Of Injuries: Not reported  
Responding Agency Personnel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: Intake cooling water from the Delamo Channel  
Spill Site: Utilities/Substation  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Gal(s)  
Other: Not reported  
Date/Time: 715  
Year: 2011  
Agency: AES Alamitos Generating Station  
Incident Date: 2/19/2011  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Unknown  
Site Type: Intake cooling water from the Delamo Channel  
E Date: Not reported  
Substance: 2 Porta Potties  
Quantity Released: Unk  
Unknown: Not reported  
Substance #2: Not reported  
Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fatafs: Not reported  
Comments: Not reported  
Description: RP received report of two Porta Potties in the intake channel, one is completely submerged and the other is 1/3 submerged, due to windy over night conditions. There is no visible product around the units. The potties are in the intake cooling water which is drawn from the Delamo Channel. The cooling water goes through the facility and out to the San Gabriel River which feeds to the Pacific Ocean near Seal Beach. RP advises his maintenance crew is en route to arrange clean up.

HAZNET:  
envid: U001570459  
Year: 2013  
GEPAID: CAC002739565  
Contact: SARA M. DUVALL  
Telephone: 6268628458

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

Mailing Name: Not reported  
Mailing Address: PO BOX 800  
Mailing City,St,Zip: ROSEMEAD, CA 917700000  
Gen County: Los Angeles  
TSD EPA ID: CAD980675276  
TSD County: Kern  
Waste Category: Not reported  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 11.8  
Facility County: Not reported

envid: U001570459  
Year: 2013  
GEPaid: CAC002739565  
Contact: SARA M. DUVALL  
Telephone: 6268628458  
Mailing Name: Not reported  
Mailing Address: PO BOX 800  
Mailing City,St,Zip: ROSEMEAD, CA 917700000  
Gen County: Los Angeles  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 2.80224  
Facility County: Not reported

envid: U001570459  
Year: 2013  
GEPaid: CAC002739565  
Contact: SARA M. DUVALL  
Telephone: 6268628458  
Mailing Name: Not reported  
Mailing Address: PO BOX 800  
Mailing City,St,Zip: ROSEMEAD, CA 917700000  
Gen County: Los Angeles  
TSD EPA ID: CAD050806850  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.2375  
Facility County: Not reported

envid: U001570459  
Year: 2013  
GEPaid: CAC002739565  
Contact: SARA M. DUVALL  
Telephone: 6268628458  
Mailing Name: Not reported  
Mailing Address: PO BOX 800  
Mailing City,St,Zip: ROSEMEAD, CA 917700000  
Gen County: Los Angeles  
TSD EPA ID: UTD991301748  
TSD County: 99

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

Waste Category: Not reported  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To  
Include On-Site Treatment And/Or Stabilization)  
Tons: 7.49691  
Facility County: Not reported

**EMI:**

Year: 2001  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1204  
Reactive Organic Gases Tons/Yr: 246  
Carbon Monoxide Emissions Tons/Yr: 21  
NOX - Oxides of Nitrogen Tons/Yr: 1462  
SOX - Oxides of Sulphur Tons/Yr: 27  
Particulate Matter Tons/Yr: 338  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 338

Year: 2002  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 273  
Reactive Organic Gases Tons/Yr: 115  
Carbon Monoxide Emissions Tons/Yr: 2498  
NOX - Oxides of Nitrogen Tons/Yr: 156  
SOX - Oxides of Sulphur Tons/Yr: 14  
Particulate Matter Tons/Yr: 131  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 131

Year: 2003  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 273  
Reactive Organic Gases Tons/Yr: 115  
Carbon Monoxide Emissions Tons/Yr: 2498  
NOX - Oxides of Nitrogen Tons/Yr: 156  
SOX - Oxides of Sulphur Tons/Yr: 14  
Particulate Matter Tons/Yr: 131  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 131

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

Year: 2004  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 272.5461843  
Reactive Organic Gases Tons/Yr: 114.65  
Carbon Monoxide Emissions Tons/Yr: 2497.598492  
NOX - Oxides of Nitrogen Tons/Yr: 156.287991  
SOX - Oxides of Sulphur Tons/Yr: 13.551072  
Particulate Matter Tons/Yr: 130.7373918  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 130.72

Year: 2005  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 47.2250976  
Reactive Organic Gases Tons/Yr: 19.94326878976  
Carbon Monoxide Emissions Tons/Yr: 349.64963  
NOX - Oxides of Nitrogen Tons/Yr: 71.37025  
SOX - Oxides of Sulphur Tons/Yr: 7.258805  
Particulate Matter Tons/Yr: 40.5831228  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 40.5800366005

Year: 2006  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 36.37960466549368382  
Reactive Organic Gases Tons/Yr: 15.39  
Carbon Monoxide Emissions Tons/Yr: 520.879  
NOX - Oxides of Nitrogen Tons/Yr: 38.379  
SOX - Oxides of Sulphur Tons/Yr: 4.068  
Particulate Matter Tons/Yr: 11.251  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 11.2462

Year: 2007  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 36.35585200688226660  
Reactive Organic Gases Tons/Yr: 15.39  
Carbon Monoxide Emissions Tons/Yr: 520.879  
NOX - Oxides of Nitrogen Tons/Yr: 38.379  
SOX - Oxides of Sulphur Tons/Yr: 4.068  
Particulate Matter Tons/Yr: 11.251  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 11.246788

Year: 2008  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 80.97128923613760884  
Reactive Organic Gases Tons/Yr: 34.226118125  
Carbon Monoxide Emissions Tons/Yr: 857.0545645  
NOX - Oxides of Nitrogen Tons/Yr: 73.36039091493466721  
SOX - Oxides of Sulphur Tons/Yr: 7.902185975  
Particulate Matter Tons/Yr: 17.603791137  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 17.5987770003466

Year: 2009  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 41.617230686747803  
Reactive Organic Gases Tons/Yr: 17.604742999999999  
Carbon Monoxide Emissions Tons/Yr: 906.4906109999999  
NOX - Oxides of Nitrogen Tons/Yr: 55.700651800000003  
SOX - Oxides of Sulphur Tons/Yr: 5.8917864  
Particulate Matter Tons/Yr: 15.102397010000001  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 15.098377330192999

Year: 2010  
County Code: 19  
Air Basin: SC  
Facility ID: 115394  
Air District Name: SC  
SIC Code: 4911  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 22.008341960832499  
Reactive Organic Gases Tons/Yr: 9.3203200000000006  
Carbon Monoxide Emissions Tons/Yr: 735.2586599999999

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PLAINS WEST COAST TERMINALS ALAMITOS TANK FARM (Continued)**

**U001570459**

NOX - Oxides of Nitrogen Tons/Yr: 33.336967630806903  
 SOX - Oxides of Sulphur Tons/Yr: 2.8681100000000002  
 Particulate Matter Tons/Yr: 6.04495  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 6.0419562730000003

Year: 2011  
 County Code: 19  
 Air Basin: SC  
 Facility ID: 115394  
 Air District Name: SC  
 SIC Code: 4911  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 26.162287879  
 Reactive Organic Gases Tons/Yr: 11.04721  
 Carbon Monoxide Emissions Tons/Yr: 579.63116  
 NOX - Oxides of Nitrogen Tons/Yr: 2.345e-009  
 SOX - Oxides of Sulphur Tons/Yr: 3.812267155  
 Particulate Matter Tons/Yr: 15.984826875  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 15.981844686

Year: 2012  
 County Code: 19  
 Air Basin: SC  
 Facility ID: 115394  
 Air District Name: SC  
 SIC Code: 4911  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 22.9224155  
 Reactive Organic Gases Tons/Yr: 9.68801  
 Carbon Monoxide Emissions Tons/Yr: 396.29109  
 NOX - Oxides of Nitrogen Tons/Yr: 49.21646  
 SOX - Oxides of Sulphur Tons/Yr: 5.18668  
 Particulate Matter Tons/Yr: 11.46148274  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 11.458763341

**A34**  
**Target**  
**Property**

**TANK FARM @ 690 N. STUDEBAKER RD.**  
**LONG BEACH, CA 90805**

**CA CHMIRS S108403775**  
**N/A**

**Site 34 of 42 in cluster A**

**Actual:**  
**11 ft.**

CHMIRS:  
 OES Incident Number: 05-3682  
 OES notification: 06/20/2005  
 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S108403775

Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agency Personnel # Of Decontaminated:	Not reported
Responding Agency Personnel # Of Injuries:	Not reported
Responding Agency Personnel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Pacific Energy Partners
Incident Date:	6/19/200512:00:00 AM
Admin Agency:	Long Beach Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Fuel Oil
Gallons:	5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Release is from the bottom of a storage tank due to corrosion.

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

<b>A35</b>		<b>ERNS</b>	<b>2005615351</b>
<b>Target Property</b>	<b>690 NORTH STUDEBAKER LONG BEACH, CA</b>		<b>N/A</b>

**Site 35 of 42 in cluster A**

**Actual:** 11 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

<b>A36</b>		<b>ERNS</b>	<b>2014087857</b>
<b>Target Property</b>	<b>690 NORTH STUDBAKER RD LONG BEACH, CA 90803</b>		<b>N/A</b>

**Site 36 of 42 in cluster A**

**Actual:** 11 ft. [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

<b>A37</b>		<b>RCRA NonGen / NLR</b>	<b>1004677374</b>
<b>Target Property</b>	<b>EDISON O AND M SERVICES 690 STUDEBAKER RD BLDG 2 LONG BEACH, CA 90803</b>		<b>CAR000096438</b>

**Site 37 of 42 in cluster A**

**Actual:** 11 ft. RCRA NonGen / NLR:

Date form received by agency: 09/27/2001

Facility name: EDISON O AND M SERVICES

Facility address: 690 STUDEBAKER RD BLDG 2  
LONG BEACH, CA 90803

EPA ID: CAR000096438

Contact: GREGORY HOXENG

Contact address: 955 OVERLAND CT  
SAN DIMAS, CA 91773

Contact country: US

Contact telephone: (909) 450-6774

Contact email: Not reported

EPA Region: 09

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: A E S ALAMITOS L L C

Owner/operator address: 690 STUDEBAKER RD  
LONG BEACH, CA 90803

Owner/operator country: Not reported

Owner/operator telephone: (562) 493-7891

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EDISON O AND M SERVICES (Continued)**

**1004677374**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D000  
. Waste name: Not Defined

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**A38**  
**Target**  
**Property**

**690 N STUDABAKER ROAD**  
**LONG BEACH, CA**

**ERNS 2007310114**  
**N/A**

**Site 38 of 42 in cluster A**

**Actual:**  
**11 ft.**

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



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

A40  
Target  
Property

UNIT #3, 690 NORTH STUDEBAKER RD  
LONG BEACH, CA 90803

CA CHMIRS S110981231  
N/A

Site 40 of 42 in cluster A

Actual:  
11 ft.

CHMIRS:  
OES Incident Number: '10-5145  
OES notification: 08/27/2010  
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  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA DOT PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Other  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Gal(s)  
Other: Not reported  
Date/Time: 320  
Year: 2010  
Agency: AES Alamitos  
Incident Date: 8/27/2010  
Admin Agency: Long Beach Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Not reported  
E Date: Not reported  
Substance: Lube Oil  
Quantity Released: 30  
Unknown: Not reported  
Substance #2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S110981231

Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fataals: Not reported  
Comments: Not reported  
Description: A lube oil leak from a seal oil system caused this release primarily within the containment area, but about 1.5 gallons spilled/splashed to the pavement outside the containment area.

A41  
Target  
Property

EPTC ALAMITOS  
690 N. STUDEBAKER RD.  
LONG BEACH, CA 90815

CORRACTS  
RCRA-SQG  
NY MANIFEST  
US AIRS

1000167573  
CAD009694795

Site 41 of 42 in cluster A

Actual:  
11 ft.

CORRACTS:

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: STUDEBAKER  
Actual Date: 20060901  
Action: CA100 - RFI Imposition  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: SURFACE IMPOUNDMENTS  
Actual Date: 20111004  
Action: CA140 - RFI Workplan Notice Of Deficiency Issued  
NAICS Code(s): Not reported  
Original schedule date: 20111023  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: SURFACE IMPOUNDMENTS  
Actual Date: 20111004  
Action: CA120 - RFI Workplan Modification Requested By Agency  
NAICS Code(s): Not reported  
Original schedule date: 20111023  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: STUDEBAKER PROPERTY - FORMER ABOVEGROUND  
Actual Date: 20070120

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Action: CA110 - RFI Workplan Received  
NAICS Code(s): Not reported  
Original schedule date: 20070130  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: SURFACE IMPOUNDMENTS  
Actual Date: 20110824  
Action: CA110 - RFI Workplan Received  
NAICS Code(s): Not reported  
Original schedule date: 20110930  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: STUDEBAKER PROPERTY - FORMER ABOVEGROUND  
Actual Date: 20070828  
Action: CA150 - RFI Workplan Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: ENTIRE FACILITY  
Actual Date: 20130630  
Action: CA180 - RFI Supplemental Implementation Begun  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: SURFACE IMPOUNDMENTS  
Actual Date: 20120131  
Action: CA150 - RFI Workplan Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: CAD009694795  
EPA Region: 09  
Area Name: STUDEBAKER  
Actual Date: 20070731  
Action: CA150 - RFI Workplan Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-SQG:**

Date form received by agency: 03/04/1999  
Facility name: EPTC ALAMITOS  
Site name: ALAMITOS GENERATING STATION  
Facility address: 690 N. STUDEBAKER RD.  
LONG BEACH, CA 90815  
EPA ID: CAD009694795

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Mailing address: 2244 WALNUT GROVE AVE ROOM 405  
ROSEMEAD, CA 91770  
Contact: KATHRYN VANDERSLICE  
Contact address: Not reported  
Not reported  
Contact country: US  
Contact telephone: (626) 302-9320  
Contact email: Not reported  
EPA Region: 09  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 10/20/1998  
Site name: EPTC ALAMITOS  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D008  
. Waste name: LEAD

. Waste code: D018  
. Waste name: BENZENE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/01/1996  
Site name: EPTC ALAMITOS  
Classification: Large Quantity Generator

Date form received by agency: 02/27/1996  
Site name: SOUTHERN CALIFORNIA EDISON  
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994  
Site name: ALAMITOS GENERATING STATION  
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992  
Site name: SOUTHERN CALIFORNIA EDISON ALA  
Classification: Large Quantity Generator

Date form received by agency: 03/28/1990  
Site name: SOUTHERN CALIFORNIA EDISON ALAMIT  
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 09/01/2006  
Event: RFI Imposition

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Event date: 01/20/2007  
Event: RFI Workplan Received

Event date: 07/31/2007  
Event: RFI Workplan Approved

Event date: 08/28/2007  
Event: RFI Workplan Approved

Event date: 08/24/2011  
Event: RFI Workplan Received

Event date: 10/04/2011  
Event: RFI Workplan Modification Requested By Agency

Event date: 10/04/2011  
Event: RFI Workplan Notice Of Deficiency Issued

Event date: 01/31/2012  
Event: RFI Workplan Approved

Event date: 06/30/2013  
Event: RFI Supplemental Implementation Begun

Facility Has Received Notices of Violations:

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1950000  
Paid penalty amount: 1633200

Regulation violated: FR - 264.190-201.J  
Area of violation: TSD - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/23/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F  
Area of violation: TSD IS-Ground-Water Monitoring  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/23/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 264.220-230.K  
Area of violation: TSD - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/23/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J  
Area of violation: TSD - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1950000  
Paid penalty amount: 1633200

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/23/1993  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F  
Area of violation: TSD IS-Ground-Water Monitoring  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1950000  
Paid penalty amount: 1633200

Regulation violated: FR - 264.220-230.K  
Area of violation: TSD - General  
Date violation determined: 09/23/1993  
Date achieved compliance: 02/01/1995  
Violation lead agency: State  
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 1950000  
Paid penalty amount: 1633200

**Evaluation Action Summary:**

Evaluation date: 05/28/2014  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/30/2002  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/22/2001  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/28/1998  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/12/1993  
Evaluation: CASE DEVELOPMENT INSPECTION  
Area of violation: Generators - General  
Date achieved compliance: 02/01/1995  
Evaluation lead agency: State

Evaluation date: 03/12/1993  
Evaluation: CASE DEVELOPMENT INSPECTION  
Area of violation: TSD IS-Ground-Water Monitoring

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

Date achieved compliance: 02/01/1995  
Evaluation lead agency: State  
  
Evaluation date: 03/12/1993  
Evaluation: CASE DEVELOPMENT INSPECTION  
Area of violation: TSD - General  
Date achieved compliance: 02/01/1995  
Evaluation lead agency: State

**NY MANIFEST:**

EPA ID: CAD009694795  
Country: USA  
Location Address 1: 690 N STUDEBAKER RD  
Location Address 2: Not reported  
Location City: LONG BEACH  
Location State: CA  
Location Zip Code: 90815  
Location Zip Code 4: Not reported

**Mailing Info:**

Name: SOUTHERN CALIFORNIA EDISON  
Contact: STEVE MAGHY  
Address: 690 N STUDEBAKER RD  
City/State/Zip: LONG BEACH, CA 90815  
Country: USA  
Phone: 213-493-7384

**Manifest:**

Document ID: NYB5421177  
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC  
Trans1 State ID: Not reported  
Trans2 State ID: Not reported  
Generator Ship Date: 12/14/1993  
Trans1 Recv Date: 12/14/1993  
Trans2 Recv Date: / /  
TSD Site Recv Date: 01/05/1994  
Part A Recv Date: / /  
Part B Recv Date: 01/19/1994  
Generator EPA ID: CAD009694795  
Trans1 EPA ID: MOD095038998  
Trans2 EPA ID: Not reported  
TSD ID: NYD048148175  
Waste Code: D009 - MERCURY 0.2 MG/L TCLP  
Quantity: 00240  
Units: P - Pounds  
Number of Containers: 003  
Container Type: DM - Metal drums, barrels  
Handling Method: R Material recovery of more than 75 percent of the total material.  
Specific Gravity: 100  
Year: 1993

**AIRS (AFS):**

**Compliance and Violation Data Major Sources:**

EPA plant ID: 110000522113  
Plant name: AES ALAMITOS STATION, LLC  
Plant address: 690 STUDEBAKER

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS (Continued)**

**1000167573**

County: LONG BEACH, CA 90803  
Region code: LOS ANGELES  
Dunn & Bradst #: 09  
Air quality cntrl region: Not reported  
Sic code: 024  
Sic code desc: 4911  
North Am. industrial classf: ELECTRIC SERVICES  
NAIC code description: 221112  
Default compliance status: Fossil Fuel Electric Power Generation  
Default classification: IN COMPLIANCE - INSPECTION  
Govt facility: ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS  
Current HPV: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT  
Not reported

**A42**  
**Target**  
**Property**

**690 STUDEBAKER RD LONG BEACH CA**  
**LONG BEACH, CA 90803**

**ERNS 97414682**  
**N/A**

**Site 42 of 42 in cluster A**

**Actual:**  
**11 ft.**

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

**DOD**  
**Region**  
**SE**  
**1/2-1**  
**4786 ft.**

**SEAL BEACH NAVAL WEAPONS STATION**  
**SEAL BEACH NAVAL WEAPONS (County), CA**

**DOD CUSA143790**  
**N/A**

DOD:  
Feature 1: Navy DOD  
Feature 2: Not reported  
Feature 3: Not reported  
URL: Not reported  
Name 1: Seal Beach Naval Weapons Station  
Name 2: Not reported  
Name 3: Not reported  
State: CA  
DOD Site: Yes  
Tile name: CAORANGE

**43**  
**< 1/8**  
**1 ft.**

**ALAMITOS GENERATING STATION (FACILITY)**  
**LONG BEACH, CA**

**ERNS 8714828**  
**N/A**

**Relative:**  
**Lower**

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

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

44  
WSW  
< 1/8  
0.023 mi.  
124 ft.

LOYNES BEACH PARTNERS LLC  
400 N STUDEBAKER ROAD  
LONG BEACH, CA 90803

CA ENVIROSTOR S116490700  
N/A

Relative:  
Lower

ENVIROSTOR:

Actual:  
0 ft.

Facility ID: 60001986  
Status: Active  
Status Date: 02/01/2014  
Site Code: 530078  
Site Type: Corrective Action  
Site Type Detailed: Corrective Action  
Acres: 18  
NPL: NO  
Regulatory Agencies: HWMP, SMBRP  
Lead Agency: SMBRP  
Program Manager: Steven Rounds  
Supervisor: Allan Plaza  
Division Branch: Cleanup Chatsworth  
Assembly: 70  
Senate: 33  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 33.77373  
Longitude: -118.1032  
APN: NONE SPECIFIED  
Past Use: ABOVE GROUND STORAGE TANKS  
Potential COC: PCBs (unspeciated mixture, low risk, e.g. Aroclor 1016 Vanadium and compounds)  
Confirmed COC: 30587-NO 30469-NO  
Potential Description: SOIL, SV  
Alias Name: CAL000274189  
Alias Type: EPA Identification Number  
Alias Name: 530078  
Alias Type: Project Code (Site Code)  
Alias Name: 60001986  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: RFI Workplan  
Completed Date: 07/16/2014  
Comments: Workplan approved.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Consent Agreement  
Completed Date: 02/18/2014  
Comments: CACA signed 2/18/2014

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Annual Oversight Cost Estimate  
Completed Date: 11/06/2014  
Comments: Sent.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LOYNES BEACH PARTNERS LLC (Continued)**

**S116490700**

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: PROJECT WIDE  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: RFI Report  
 Schedule Due Date: 03/19/2015  
 Schedule Revised Date: Not reported

**B45**  
**West**  
 < 1/8  
 0.052 mi.  
 277 ft.

**STUDEBAKER-CERRITOS CHANNEL**  
**SW OF STUDEBAKER & LOYNES**  
**LONG BEACH, CA**  
 Site 1 of 7 in cluster B

**CA WMUDS/SWAT S103441602**  
**N/A**

**Relative:**  
**Lower**

WMUDS/SWAT:

Edit Date: Not reported  
 Complexity: Not reported  
 Primary Waste: Not reported  
 Primary Waste Type: Not reported  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Base Meridian: Not reported  
 NPID: Not reported  
 Tonnage: 0  
 Regional Board ID: Not reported  
 Municipal Solid Waste: False  
 Superorder: False  
 Open To Public: False  
 Waste List: False  
 Agency Type: Not reported  
 Agency Name: Not reported  
 Agency Department: Not reported  
 Agency Address: Not reported  
 Agency City,St,Zip: Not reported  
 Agency Contact: Not reported  
 Agency Telephone: Not reported  
 Land Owner Name: Not reported  
 Land Owner Address: Not reported  
 Land Owner City,St,Zip: CA  
 Land Owner Contact: Not reported  
 Land Owner Phone: Not reported  
 Region: 4  
 Facility Type: Not reported  
 Facility Description: Not reported  
 Facility Telephone: Not reported  
 SWAT Facility Name: Not reported  
 Primary SIC: Not reported  
 Secondary SIC: Not reported  
 Comments: Not reported  
 Last Facility Editors: Not reported  
 Waste Discharge System: False  
 Solid Waste Assessment Test Program: True  
 Toxic Pits Cleanup Act Program: False  
 Resource Conservation Recovery Act: False  
 Department of Defence: False  
 Solid Waste Assessment Test Program: Not reported

**Actual:**  
**7 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STUDEBAKER-CERRITOS CHANNEL (Continued)**

**S103441602**

Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190393NUR
Solid Waste Information ID:	Not reported

**B46**  
**West**  
**< 1/8**  
**0.052 mi.**  
**277 ft.**

**STUDEBAKER - LOYNES DISPOSAL S**  
**LOYNES DR. & STUDEBAKER RD**  
**LONG BEACH, CA 90806**

**CA WMUDS/SWAT**

**S103441607**  
**N/A**

**Site 2 of 7 in cluster B**

**Relative:**  
**Lower**

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	BIXBY RANCH COMPANY
Agency Department:	Not reported
Agency Address:	911 STUDEBAKER RD.
Agency City,St,Zip:	LONG BEACH 90806
Agency Contact:	Not reported
Agency Telephone:	2134931475
Land Owner Name:	BIXBY RANCH COMPANY
Land Owner Address:	911 STUDEBAKER RD.
Land Owner City,St,Zip:	LONG BEACH, CA 90806
Land Owner Contact:	Not reported
Land Owner Phone:	2134931475
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	STUDEBAKER - LOYNES DISPOSAL SITE
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STUDEBAKER - LOYNES DISPOSAL S (Continued)**

**S103441607**

Solid Waste Assessment Test Program: BIXBY RANCH COMPANY  
Threat to Water Quality: Not reported  
Sub Chapter 15: False  
Regional Board Project Officer: LT  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: Not reported  
Waste Discharge Requirements: Not reported  
Self-Monitoring Rept. Frequency: Not reported  
Waste Discharge System ID: 4 190398NUR  
Solid Waste Information ID: 19-AK-0002

**B47**  
**West**  
**< 1/8**  
**0.056 mi.**  
**295 ft.**

**CITY DUMP AND SALVAGE**  
**LOYNES DRIVE AND NORTH STUDEBAKER ROAD**  
**LONG BEACH, CA**

**CA SWF/LF** **S111075832**  
**N/A**

**Site 3 of 7 in cluster B**

**Relative:**  
**Lower**

LOS ANGELES CO. LF:

Site ID: 2236  
Alt. Address: SW corner of Loynes Drive and North Studebaker Road, Long Beach, CA  
Site Contact: Not reported  
Site Contact Phone: Not reported  
Site Email: Not reported  
Site Website: Not reported  
Site Type: Unknown  
Site SWIS Number: Not reported  
Beginning Operation Date: Not reported  
Ending Operation Date: Not reported  
Local Enforcement Agency: Not reported  
Maximun Depth Fill(Ft): Not reported  
Permitted Capacity: Not reported  
Present Use: Wetland Restoration  
Remaining Capacity(Million): Not reported  
Status: Closed  
Waste Accepted: Not reported  
Hours of Operation: Not reported  
Disposal Area (Acre): Not reported

Detail As Of 01/2014:

Operator Name: Unknown  
Operator Address: Not reported  
Operator City/State/Zip: Not reported  
Operator Contact: Not reported  
Operator Telephone: Not reported  
Operator Email: Not reported  
Owner Name: Unknown  
Owner Address: Not reported  
Owner City/State/Zip: Not reported  
Owner Contact: Not reported  
Owner Telephone: Not reported  
Owner Email: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B48**  
**West**  
**< 1/8**  
**0.063 mi.**  
**332 ft.**

**ALAMITOS STATION**  
**692 N STUDEBAKER RD**  
**LONG BEACH, CA 90803**

**CA HAZNET** **S113128106**  
**CA HWP** **N/A**

**Site 4 of 7 in cluster B**

**Relative:**  
**Lower**

HAZNET:

envid: S113128106  
Year: 2013  
GEPaid: CAL000274189  
Contact: BILL SENNER  
Telephone: 5627282056  
Mailing Name: Not reported  
Mailing Address: 5900 CHERRY AVE  
Mailing City,St,Zip: LONG BEACH, CA 908054454  
Gen County: Los Angeles  
TSD EPA ID: CAD980675276  
TSD County: Kern  
Waste Category: Not reported  
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 0.3  
Facility County: Not reported

**Actual:**  
**7 ft.**

envid: S113128106  
Year: 2013  
GEPaid: CAL000274189  
Contact: BILL SENNER  
Telephone: 5627282056  
Mailing Name: Not reported  
Mailing Address: 5900 CHERRY AVE  
Mailing City,St,Zip: LONG BEACH, CA 908054454  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect  
Tons: 6.4635  
Facility County: Not reported

envid: S113128106  
Year: 2013  
GEPaid: CAL000274189  
Contact: BILL SENNER  
Telephone: 5627282056  
Mailing Name: Not reported  
Mailing Address: 5900 CHERRY AVE  
Mailing City,St,Zip: LONG BEACH, CA 908054454  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect  
Tons: 0.266  
Facility County: Not reported

envid: S113128106

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALAMITOS STATION (Continued)**

**S113128106**

Year: 2013  
GEPAID: CAL000274189  
Contact: BILL SENNER  
Telephone: 5627282056  
Mailing Name: Not reported  
Mailing Address: 5900 CHERRY AVE  
Mailing City,St,Zip: LONG BEACH, CA 908054454  
Gen County: Los Angeles  
TSD EPA ID: CAD044429835  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.2  
Facility County: Not reported

envid: S113128106  
Year: 2012  
GEPAID: CAL000274189  
Contact: NGIABI GICUHI  
Telephone: 5627282024  
Mailing Name: Not reported  
Mailing Address: 5900 CHERRY AVE  
Mailing City,St,Zip: LONG BEACH, CA 908054454  
Gen County: Los Angeles  
TSD EPA ID: CAD044429835  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.125  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 65 additional CA\_HAZNET: record(s) in the EDR Site Report.

**HWP:**

EPA Id: CAD009694795  
Cleanup Status: UNKNOWN  
Latitude: 33.77373  
Longitude: -118.1032  
Facility Type: Historical - Non-Operating  
Facility Size: Not reported  
Team: Not reported  
Supervisor: Not reported  
Site Code: 530040, 400446  
Assembly District: 70  
Senate District: 34  
Public Information Officer: Not reported

**Alias:**

EPA Id: CAD009694795  
Facility Type: Historical - Non-Operating  
Alias Type: Project Code (Site Code)  
Alias: 530040

EPA Id: CAD009694795

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALAMITOS STATION (Continued)**

**S113128106**

Facility Type: Historical - Non-Operating  
 Alias Type: Alternate Name  
 Alias: SCE Alamitos

EPA Id: CAD009694795  
 Facility Type: Historical - Non-Operating  
 Alias Type: Alternate Name  
 Alias: Studebaker LLC

EPA Id: CAD009694795  
 Facility Type: Historical - Non-Operating  
 Alias Type: Project Code (Site Code)  
 Alias: 400446

**B49**  
**West**  
**< 1/8**  
**0.063 mi.**  
**332 ft.**

**EPTC ALAMITOS PARCEL 3-4**  
**692 NORTH STUDEBAKER ROAD**  
**LONG BEACH, CA 90803**  
**Site 5 of 7 in cluster B**

**CA NPDES** **S105557569**  
**CA DEED** **N/A**  
**CA VCP**  
**CA ENVIROSTOR**

**Relative:**  
**Lower**

NPDES:  
 Npdes Number: CAG674001  
 Facility Status: Active  
 Agency Id: 483625  
 Region: 4  
 Regulatory Measure Id: 193820  
 Order No: R4-2009-0068  
 Regulatory Measure Type: Enrollee  
 Place Id: 207270  
 WDID: 4B196300100  
 Program Type: NPDNONMUNIPRCS  
 Adoption Date Of Regulatory Measure: Not reported  
 Effective Date Of Regulatory Measure: 03/26/1999  
 Expiration Date Of Regulatory Measure: 06/04/2014  
 Termination Date Of Regulatory Measure: Not reported  
 Discharge Name: Plains West Coast Terminals, LLC  
 Discharge Address: 5900 Cherry Avenue  
 Discharge City: Long Beach  
 Discharge State: CA  
 Discharge Zip: 90805  
 RECEIVED DATE: Not reported  
 PROCESSED DATE: Not reported  
 STATUS CODE NAME: Not reported  
 STATUS DATE: Not reported  
 PLACE SIZE: Not reported  
 PLACE SIZE UNIT: Not reported  
 FACILITY CONTACT NAME: Not reported  
 FACILITY CONTACT TITLE: Not reported  
 FACILITY CONTACT PHONE: Not reported  
 FACILITY CONTACT PHONE EXT: Not reported  
 FACILITY CONTACT EMAIL: Not reported  
 OPERATOR NAME: Not reported  
 OPERATOR ADDRESS: Not reported  
 OPERATOR CITY: Not reported  
 OPERATOR STATE: Not reported  
 OPERATOR ZIP: Not reported  
 OPERATOR CONTACT NAME: Not reported

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS PARCEL 3-4 (Continued)**

**S105557569**

OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: Not reported  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Not reported  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: Not reported  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: Not reported  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported  
CONSTYPE CABLE LINE IND: Not reported  
CONSTYPE COMM LINE IND: Not reported  
CONSTYPE COMMERCIAL IND: Not reported  
CONSTYPE ELECTRICAL LINE IND: Not reported  
CONSTYPE GAS LINE IND: Not reported  
CONSTYPE INDUSTRIAL IND: Not reported  
CONSTYPE OTHER DESCRIPTION: Not reported  
CONSTYPE OTHER IND: Not reported  
CONSTYPE RECONS IND: Not reported  
CONSTYPE RESIDENTIAL IND: Not reported  
CONSTYPE TRANSPORT IND: Not reported  
CONSTYPE UTILITY DESCRIPTION: Not reported  
CONSTYPE UTILITY IND: Not reported  
CONSTYPE WATER SEWER IND: Not reported  
DIR DISCHARGE USWATER IND: Not reported  
RECEIVING WATER NAME: Not reported  
CERTIFIER NAME: Not reported  
CERTIFIER TITLE: Not reported  
CERTIFICATION DATE: Not reported  
PRIMARY SIC: Not reported  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

**DEED:**

Envirostor ID: 19130113  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY  
Agency: Not reported  
Covenant Upload: Not reported  
Deed Date(s): 07/20/2006

**VCP:**

Facility ID: 19130113  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Cleanup  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 0.75

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS PARCEL 3-4 (Continued)**

**S105557569**

National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Tedd Yargeau  
Supervisor: Javier Hinojosa  
Division Branch: Cleanup Chatsworth  
Site Code: 401020  
Assembly: 70  
Senate: 34  
Special Programs Code: Voluntary Cleanup Program  
Status: Certified O&M - Land Use Restrictions Only  
Status Date: 05/05/2005  
Restricted Use: YES  
Funding: Responsible Party  
Lat/Long: 33.77403 / -118.1030  
APN: NONE SPECIFIED  
Past Use: MANUFACTURING - PETROLEUM  
Potential COC: 3002502  
Confirmed COC: 3002502  
Potential Description: OTH, SOIL  
Alias Name: 110033616317  
Alias Type: EPA (FRS #)  
Alias Name: 401020  
Alias Type: Project Code (Site Code)  
Alias Name: 19130113  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 06/28/2002  
Comments: VCA

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 07/20/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 05/05/2005  
Comments: After several conference calls with the site proponent, DTSC approves the Phase II report. The report indicated that the site had been impacted from previous operations at the site however that those levels were compatible with the current industrial land-use.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 09/23/2002  
Comments: DTSC completed document review and submitted comments to Coastal Conservancy

Future Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EPTC ALAMITOS PARCEL 3-4 (Continued)**

**S105557569**

Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**ENVIROSTOR:**

Facility ID: 19130113  
Status: Certified O&M - Land Use Restrictions Only  
Status Date: 05/05/2005  
Site Code: 401020  
Site Type: Voluntary Cleanup  
Site Type Detailed: Voluntary Cleanup  
Acres: 0.75  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Tedd Yargeau  
Supervisor: Javier Hinojosa  
Division Branch: Cleanup Chatsworth  
Assembly: 70  
Senate: 34  
Special Program: Voluntary Cleanup Program  
Restricted Use: YES  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 33.77403  
Longitude: -118.1030  
APN: NONE SPECIFIED  
Past Use: MANUFACTURING - PETROLEUM  
Potential COC: TPH-MOTOR OIL  
Confirmed COC: TPH-MOTOR OIL  
Potential Description: OTH, SOIL  
Alias Name: 110033616317  
Alias Type: EPA (FRS #)  
Alias Name: 401020  
Alias Type: Project Code (Site Code)  
Alias Name: 19130113  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 06/28/2002  
Comments: VCA

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 07/20/2006  
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EPTC ALAMITOS PARCEL 3-4 (Continued)**

**S105557569**

Completed Sub Area Name: Not reported  
 Completed Document Type: Preliminary Endangerment Assessment Report  
 Completed Date: 05/05/2005  
 Comments: After several conference calls with the site proponent, DTSC approves the Phase II report. The report indicated that the site had been impacted from previous operations at the site however that those levels were compatible with the current industrial land-use.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Other Report  
 Completed Date: 09/23/2002  
 Comments: DTSC completed document review and submitted comments to Coastal Conservancy

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**B50**  
**West**  
 < 1/8  
 0.063 mi.  
 332 ft.

**SCE-ALAMITOS**  
**692 N STUDEBAKER ROAD**  
**LONG BEACH, CA 90815**

**CA ENVIROSTOR** **S108197049**  
**N/A**

**Site 6 of 7 in cluster B**

**Relative:**  
**Lower**

ENVIROSTOR:

Facility ID: 80001647  
 Status: Active  
 Status Date: 02/01/1995  
 Site Code: 530040  
 Site Type: Corrective Action  
 Site Type Detailed: Corrective Action  
 Acres: 234  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: WM  
 Program Manager: Steven Rounds  
 Supervisor: Allan Plaza  
 Division Branch: Cleanup Chatsworth  
 Assembly: 70  
 Senate: 33  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 33.77373  
 Longitude: -118.1032  
 APN: NONE SPECIFIED  
 Past Use: ABOVE GROUND STORAGE TANKS  
 Potential COC: Polychlorinated biphenyls (PCBs Vanadium and compounds  
 Confirmed COC: 30587-NO 30018-NO  
 Potential Description: OTH, SOIL

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCE-ALAMITOS (Continued)**

**S108197049**

Alias Name: SCE Alamitos  
Alias Type: Alternate Name  
Alias Name: Studebaker LLC  
Alias Type: Alternate Name  
Alias Name: CAD009694795  
Alias Type: EPA Identification Number  
Alias Name: 110000522113  
Alias Type: EPA (FRS #)  
Alias Name: 400446  
Alias Type: Project Code (Site Code)  
Alias Name: 530040  
Alias Type: Project Code (Site Code)  
Alias Name: 80001647  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Sites With No Operable Unit  
Completed Sub Area Name: Studebaker Property - former aboveground storage tank area  
Completed Document Type: Consent Agreement  
Completed Date: 02/18/2014  
Comments: This project is now Loynes Beach Partners LLC. Site code 530078.

Completed Area Name: AES Generating Station (former SCE)  
Completed Sub Area Name: Surface Impoundments  
Completed Document Type: Consent Decree  
Completed Date: 02/01/1995  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Judicial Order  
Completed Date: 02/06/1995  
Comments: Order signed and recorded.

Completed Area Name: AES Generating Station (former SCE)  
Completed Sub Area Name: Surface Impoundments  
Completed Document Type: RFI Workplan  
Completed Date: 01/31/2012  
Comments: Approved by DTSC

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 06/30/2013  
Comments: Completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 05/07/2013  
Comments: Comments sent to facility.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 06/30/2014  
Comments: Completed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCE-ALAMITOS (Continued)**

**S108197049**

Completed Area Name: AES Generating Station (former SCE)  
Completed Sub Area Name: Surface Impoundments  
Completed Document Type: Monitoring Report  
Completed Date: 03/29/2010  
Comments: Document received, no comments

Completed Area Name: Sites With No Operable Unit  
Completed Sub Area Name: Studebaker Property - former aboveground storage tank area  
Completed Document Type: RFI Workplan  
Completed Date: 08/28/2007  
Comments: approved

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 05/15/2011  
Comments: DTSC internal review, no letter issued

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 10/10/2012  
Comments: DTSC e-mail to facility

Completed Area Name: Sites With No Operable Unit  
Completed Sub Area Name: Studebaker Property - former aboveground storage tank area  
Completed Document Type: Consent Agreement  
Completed Date: 06/30/2006  
Comments: signed

Future Area Name: Sites With No Operable Unit  
Future Sub Area Name: Studebaker Property - former aboveground storage tank area  
Future Document Type: RFI Report  
Future Due Date: 2015  
Schedule Area Name: AES Generating Station (former SCE)  
Schedule Sub Area Name: Surface Impoundments  
Schedule Document Type: RFI Workplan  
Schedule Due Date: 04/16/2014  
Schedule Revised Date: Not reported  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: CEQA - Notice of Exemption  
Schedule Due Date: 11/23/2014  
Schedule Revised Date: Not reported

**B51**  
**West**  
**< 1/8**  
**0.063 mi.**  
**332 ft.**

**EPTC - ALAMITOS**  
**692 N STUDEBAKER ROAD**  
**LONG BEACH, CA**  
**Site 7 of 7 in cluster B**

**CA AST A100323697**  
**N/A**

**Relative:**  
**Lower**

AST:  
Certified Unified Program Agencies: Long Beach  
Owner: PACIFIC TERMINALS LLC  
Total Gallons: 133,105,360

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

52  
West  
< 1/8  
0.098 mi.  
515 ft.

**CITY DUMP & SALVAGE NO. 4  
STUDEBAKER RD & VISTA ST  
LONG BEACH, CA**

CA SWF/LF S102360867  
CA WMUDS/SWAT N/A

**Relative:  
Lower**

SWF/LF (SWIS):

**Actual:  
0 ft.**

Region: STATE  
Facility ID: 19-AK-5004  
Lat/Long: 33.7650000 / -118.10359  
Owner Name: Bixby Ranch Co  
Owner Telephone: 3104931475  
Owner Address: Not reported  
Owner Address2: 3010 Old Ranch Parkway #100  
Owner City,St,Zip: Seal Beach, CA 90740  
Operational Status: Closed  
Operator: Not reported  
Operator Phone: Not reported  
Operator Address: Not reported  
Operator Address2: Not reported  
Operator City,St,Zip: Not reported  
Permit Date: Not reported  
Permit Status: Not reported  
Permitted Acreage: 0  
Activity: Solid Waste Disposal Site  
Regulation Status: Unpermitted  
Landuse Name: Not reported  
GIS Source: Map  
Category: Disposal  
Unit Number: 01  
Inspection Frequency: Quarterly  
Accepted Waste: Not reported  
Closure Date: Not reported  
Closure Type: Not reported  
Disposal Acreage: 0  
SWIS Num: 19-AK-5004  
Waste Discharge Requirement Num: Not reported  
Program Type: Not reported  
Permitted Throughput with Units: Not reported  
Actual Throughput with Units: Not reported  
Permitted Capacity with Units: Not reported  
Remaining Capacity: Not reported  
Remaining Capacity with Units: Not reported  
Lat/Long: 33.7650000 / -118.10359

WMUDS/SWAT:

Edit Date: Not reported  
Complexity: Not reported  
Primary Waste: Not reported  
Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Base Meridian: Not reported  
NPID: Not reported  
Tonnage: 0  
Regional Board ID: Not reported  
Municipal Solid Waste: False  
Superorder: False  
Open To Public: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY DUMP & SALVAGE NO. 4 (Continued)**

**S102360867**

Waste List: False  
Agency Type: Not reported  
Agency Name: CITY DUMP AND SALVAGE  
Agency Department: Not reported  
Agency Address: Not reported  
Agency City,St,Zip: Not reported  
Agency Contact: Not reported  
Agency Telephone: Not reported  
Land Owner Name: BIXBY RANCH COMPANY  
Land Owner Address: 523 WEST 6TH STREET  
Land Owner City,St,Zip: LOS ANGELES, CA 90014  
Land Owner Contact: Not reported  
Land Owner Phone: Not reported  
Region: 4  
Facility Type: Not reported  
Facility Description: Not reported  
Facility Telephone: Not reported  
SWAT Facility Name: Not reported  
Primary SIC: Not reported  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: False  
Solid Waste Assessment Test Program: True  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: CITY DUMP AND SALVAGE  
Threat to Water Quality: Not reported  
Sub Chapter 15: False  
Regional Board Project Officer: LT  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: Not reported  
Waste Discharge Requirements: Not reported  
Self-Monitoring Rept. Frequency: Not reported  
Waste Discharge System ID: 4 190052NUR  
Solid Waste Information ID: Not reported

**C53**  
**South**  
**1/4-1/2**  
**0.272 mi.**  
**1437 ft.**

**HAYNES GENERATING STATION**  
**6801 EAST 2ND. STREET**  
**LONG BEACH, CA 90803**  
**Site 1 of 3 in cluster C**

**RCRA-TSDF 1000102031**  
**RCRA-LQG CAD000633248**

**Relative:**  
**Higher**

RCRA-TSDF:  
Date form received by agency: 06/09/2010  
Facility name: HAYNES GENERATING STATION  
Facility address: 6801 EAST 2ND. STREET  
LONG BEACH, CA 90803  
EPA ID: CAD000633248  
Mailing address: 111 NORTH HOPE STREET  
ROOM 1050  
LOS ANGELES, CA 90012  
Contact: MARK J SEDLACEK  
Contact address: 111 NORTH HOPE STREET ROOM 1050  
LOS ANGELES, CA 90012  
Contact country: US

**Actual:**  
**13 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

Contact telephone: (213) 367-0403  
Contact email: MARK.SEDLACEK@LADWP.COM  
EPA Region: 09  
Land type: Municipal  
Classification: TSDf  
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: MARK J. SEDLACEK  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Municipal  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/1959  
Owner/Op end date: Not reported

Owner/operator name: LA DEPT. OF WATER & POWER  
Owner/operator address: 111 NORTH HOPE STREET ROOM 1050  
LOS ANGELES, CA 90012  
Owner/operator country: US  
Owner/operator telephone: (213) 367-0403  
Legal status: Municipal  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1959  
Owner/Op end date: Not reported

Owner/operator name: DEPARTMENT OF WATER AND POWER CITY OF LA  
Owner/operator address: P. O. BOX 111  
CITY NOT REPORTED, CA 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (213) 481-3100  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DEPARTMENT OF WATER AND POWER CITY OF LA  
Owner/operator address: P. O. BOX 111  
LOS ANGELES, CA 90051  
Owner/operator country: Not reported  
Owner/operator telephone: (213) 481-3100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

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

Handler Activities Summary:

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

. Waste code: 134  
. Waste name: 134

. Waste code: 181  
. Waste name: 181

. Waste code: 212  
. Waste name: 212

. Waste code: 331  
. Waste name: 331

. Waste code: 792  
. Waste name: 792

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D005  
. Waste name: BARIUM

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D010  
. Waste name: SELENIUM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:

- Date form received by agency: 02/28/2008
- Site name: LADWP HAYNES GENERATING STATION
- Classification: Large Quantity Generator
- . Waste code: D001
  - . Waste name: IGNITABLE WASTE
  
  - . Waste code: D002
  - . Waste name: CORROSIVE WASTE
  
  - . Waste code: D008
  - . Waste name: LEAD
  
  - . Waste code: D009
  - . Waste name: MERCURY
  
  - . Waste code: D018
  - . Waste name: BENZENE
  
  - . Waste code: D035
  - . Waste name: METHYL ETHYL KETONE
  
  - . Waste code: D039
  - . Waste name: TETRACHLOROETHYLENE
  
  - . Waste code: F003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

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

. Waste code: F005

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/16/2007

Site name: LADWP HAYNES GENERATING STATION

Classification: Large Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE WASTE

. Waste code: D008

. Waste name: LEAD

. Waste code: D009

. Waste name: MERCURY

. Waste code: D039

. Waste name: TETRACHLOROETHYLENE

. Waste code: F005

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/28/2006

Site name: LADWP HAYNES GENERATING STATION

Classification: Large Quantity Generator

. Waste code: 134

. Waste name: 134

. Waste code: 181

. Waste name: 181

. Waste code: 212

. Waste name: 212

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

- . Waste code: 331
- . Waste name: 331
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D006
- . Waste name: CADMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: D038
- . Waste name: PYRIDINE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: D040
- . Waste name: TRICHLORETHYLENE
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- Date form received by agency: 03/08/2004
- Site name: HAYNES GENERATION STN
- Classification: Large Quantity Generator
  
- . Waste code: D001
- . Waste name: IGNITABLE WASTE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/27/2004

Site name: HAYNES GENERATION STATION  
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 03/04/1999

Site name: HAYNES GENERATING STATION  
Classification: Large Quantity Generator

Date form received by agency: 03/17/1994

Site name: HAYNES GENERATING STATION LADWP  
Classification: Large Quantity Generator

Date form received by agency: 10/25/1993

Site name: LOS ANGELES DEPT OF WATER & POWER  
Classification: Large Quantity Generator

Date form received by agency: 04/03/1991

Site name: LA DEPT WATER & POWER-HAYNES STATION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Site name: LOS ANGELES DEPT OF WATER & POWER

Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/20/2009  
Date achieved compliance: 12/03/2009  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 05/05/2005  
Date achieved compliance: 07/13/2005  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/05/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 04/23/1985  
Date achieved compliance: 08/23/1985  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 02/17/1984  
Date achieved compliance: 05/21/1985  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 01/20/1983  
Date achieved compliance: 08/23/1985  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/03/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/20/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/03/2009  
Evaluation lead agency: State

Evaluation date: 10/15/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/03/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/26/2007  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/05/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 07/13/2005  
Evaluation lead agency: State Contractor/Grantee

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**1000102031**

Evaluation date:	08/25/1986
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	08/25/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	05/21/1985
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	05/21/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/23/1985
Evaluation:	GROUNDWATER MONITORING EVALUATION
Area of violation:	Generators - General
Date achieved compliance:	08/23/1985
Evaluation lead agency:	State
Evaluation date:	02/17/1984
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	05/21/1985
Evaluation lead agency:	EPA
Evaluation date:	01/20/1983
Evaluation:	GROUNDWATER MONITORING EVALUATION
Area of violation:	Generators - General
Date achieved compliance:	08/23/1985
Evaluation lead agency:	State

**C54**  
 South  
 1/4-1/2  
 0.275 mi.  
 1450 ft.

**HAYNES GENERATING STATION**  
**6801 WESTMINSTER AVE #2**  
**LONG BEACH, CA**  
 Site 2 of 3 in cluster C

**CA UST** U003661648  
**CA WDS** N/A  
**CA WMUDS/SWAT**

**Relative:**  
**Higher**

LONG BEACH UST:  
 DATA AS OF 02/25/2014:

**Actual:**  
 13 ft.

Region:	LONG BEACH
Tanks:	0T
Tank Test:	Not reported
Leak Test:	Not reported
Tank Status:	Not reported

WDS:  
 Facility ID: Los Angeles River 196300152

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**U003661648**

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAG674001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

Facility Telephone: 2133670436

Facility Contact: Katherine Rubin

Agency Name: LOS ANGELES CITY OF DWP

Agency Address: 111 N. Hope St.

Agency City,St,Zip: Los Angeles 90012

Agency Contact: Not reported

Agency Telephone: Not reported

Agency Type: City

SIC Code: 9199

SIC Code 2: Not reported

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.

Primary Waste: MISCEL

Waste Type2: Not reported

Waste2: Miscellaneous (Includes wastes from dewatering, recreational lake overflow, swimming pool wastes, water ride wastewater, ground water seepage and other wastes of this type)

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

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 1

Baseline Flow: 1

Reclamation: No reclamation requirements associated with this facility.

POTW: The facility is not a POTW.

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

WMUDS/SWAT:

Edit Date: Not reported

Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**U003661648**

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

Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Base Meridian: Not reported  
NPID: CA0000353  
Tonnage: 0  
Regional Board ID: Not reported  
Municipal Solid Waste: False  
Superorder: False  
Open To Public: False  
Waste List: False  
Agency Type: City  
Agency Name: LOS ANGELES CITY OF DWP  
Agency Department: Not reported  
Agency Address: 111 NORTH HOPE STREET, RM 1414  
Agency City,St,Zip: LOS ANGELES CA 90012  
Agency Contact: FAZI MOFIDI  
Agency Telephone: 2133670280  
Land Owner Name: Not reported  
Land Owner Address: Not reported  
Land Owner City,St,Zip: Not reported  
Land Owner Contact: Not reported  
Land Owner Phone: Not reported  
Region: 4  
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Description: Not reported  
Facility Telephone: 2133670280  
SWAT Facility Name: Not reported  
Primary SIC: 4911  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: True  
Solid Waste Assessment Test Program: False  
Toxic Pits Cleanup Act Program: True  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: Not reported  
Threat to Water Quality: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.

Sub Chapter 15: False  
Regional Board Project Officer: Not reported  
Number of WMUDS at Facility: 1  
Section Range: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAYNES GENERATING STATION (Continued)**

**U003661648**

RCRA Facility: No  
Waste Discharge Requirements: A  
Self-Monitoring Rept. Frequency: Monthly Submittal  
Waste Discharge System ID: 4B193500002  
Solid Waste Information ID: Not reported

**C55**  
**South**  
**1/4-1/2**  
**0.275 mi.**  
**1450 ft.**

**LAWP,HAYNES GENERATING STATION**  
**6801 WESTMINSTER AVENUE**  
**LONG BEACH, CA 90803**

**CA Toxic Pits S100925090**  
**N/A**

**Site 3 of 3 in cluster C**

**Relative:**  
**Higher**

**TOXIC PITS:**

Region: 04  
Task #: 84006  
Owner: L.A. DEPT. OF WATER AND POWER  
1/2 Mi Limit: Y  
Num. of Pits: 1  
Cease Discharge Due: / /  
Cease Discharge Complete: 05/01/85  
Closure Due: / /  
**Closure Completed: 10/18/90**  
Status: CLOSED  
Hydro Geological Assessment Report Due: / /  
Final Hydro Geological Assessment Review Completed: 06/15/89

**Actual:**  
**13 ft.**

**56**  
**SW**  
**1/4-1/2**  
**0.461 mi.**  
**2435 ft.**

**LCW OIL OPERATIONS PCB SITE**  
**6433 E 2ND STREET**  
**LONG BEACH, CA 90803**

**CERCLIS 1012043078**  
**CAN000908768**

**Relative:**  
**Lower**

**CERCLIS:**

Site ID: 0908768  
EPA ID: CAN000908768  
Facility County: LOS ANGELES  
Short Name: LCW OIL OPERATIONS PCB SI  
Congressional District: Not reported  
IFMS ID: 09SL  
SMSA Number: Not reported  
USGC Hydro Unit: Not reported  
Federal Facility: Not a Federal Facility  
DMNSN Number: 0.00000  
Site Orphan Flag: Not reported  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: R  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 09  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL  
DMNSN Unit Code: Not reported  
RBRAC Code: Not reported

**Actual:**  
**7 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LCW OIL OPERATIONS PCB SITE (Continued)**

**1012043078**

RResp Fed Agency Code: Not reported  
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)  
Non NPL Status Date: 05/29/09  
Site Fips Code: 06037  
CC Concurrence Date: / /  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 9270721.00000  
Contact Name: Robert Wise  
Contact Tel: (562) 499-6312  
Contact Title: On-Scene Coordinator (OSC)  
Contact Email: Not reported

Contact ID: 13003854.00000  
Contact Name: Leslie Ramirez  
Contact Tel: (415) 972-3978  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13003858.00000  
Contact Name: Sharon Murray  
Contact Tel: (415) 972-4250  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Contact ID: 13004003.00000  
Contact Name: Carl Brickner  
Contact Tel: Not reported  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Not reported

Alias Comments: Not reported  
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001  
Action: REMOVAL ASSESSMENT  
Date Started: 06/05/09  
Date Completed: 01/11/10  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL  
Date Started: 01/06/10  
Date Completed: 04/08/10  
Priority Level: Cleaned up  
Operable Unit: SITEWIDE

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LCW OIL OPERATIONS PCB SITE (Continued)**

**1012043078**

Primary Responsibility: PRP Response Under State  
 Planning Status: Primary  
 Urgency Indicator: Emergency  
 Action Anomaly: Voluntary Cleanup Start and Complete

Action Code: 001  
 Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH  
 Date Started: 06/05/09  
 Date Completed: 04/09/10  
 Priority Level: No PRPs Identified  
 Operable Unit: SITEWIDE  
 Primary Responsibility: EPA In-House  
 Planning Status: Not reported  
 Urgency Indicator: Not reported  
 Action Anomaly: Not reported

**57  
 NW  
 1/2-1  
 0.529 mi.  
 2791 ft.**

**LA DEF AREA NIKE BATTERY 32  
 RANCHO LOS ALAMITOS, CA**

**CA ENVIROSTOR S109548245  
 N/A**

**Relative:  
 Higher**

ENVIROSTOR:  
 Facility ID: 80000285  
 Status: Inactive - Needs Evaluation  
 Status Date: 07/01/2005  
 Site Code: Not reported  
 Site Type: Military Evaluation  
 Site Type Detailed: FUDS  
 Acres: Not reported  
 NPL: NO  
 Regulatory Agencies: SMBRP  
 Lead Agency: SMBRP  
 Program Manager: Not reported  
 Supervisor: Douglas Bautista  
 Division Branch: Cleanup Cypress  
 Assembly: 70  
 Senate: Not reported  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: DERA  
 Latitude: 33.77638  
 Longitude: -118.1083  
 APN: NONE SPECIFIED  
 Past Use: NONE SPECIFIED  
 Potential COC: NONE SPECIFIED  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: CA99799F548400  
 Alias Type: Federal Facility ID  
 Alias Name: J09CA0424  
 Alias Type: INPR  
 Alias Name: 80000285  
 Alias Type: Envirostor ID Number

**Actual:  
 59 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LA DEF AREA NIKE BATTERY 32 (Continued)**

**S109548245**

Completed Info:

Completed Area Name: Not reported  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Not reported  
 Completed Date: Not reported  
 Comments: Not reported

Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**58**  
**SE**  
**1/2-1**  
**0.833 mi.**  
**4400 ft.**

**NWS SEAL BEACH**  
**, CA**

**FUDS 1008196536**  
**LUCIS N/A**

**Relative:**  
**Higher**

FUDS:

**Actual:**  
**14 ft.**

Federal Facility ID: CA9799F5960  
 FUDS #: J09CA1065  
 INST ID: 61337  
 Facility Name: NWS SEAL BEACH  
 City: SEAL BEACH  
 State: CA  
 EPA Region: 09  
 County: ORANGE  
 Congressional District: 46  
 US Army District: Los Angeles District (SPL)  
 Fiscal Year: 2012  
 Telephone: 213-452-3920  
 NPL Status: Not Listed  
 RAB: Not reported  
 CTC: 81.29999  
 Current Owner: Private Sector  
 Current Prog: Not reported  
 Future Prog: Not reported  
 Acreage: Not reported  
 Description: 4889.12 ACRES  
 History: SEAL BEACH NAVAL WEAPONS STATION  
 Latitude: 33.72909899999  
 Longitude: -118.075996  
 Site Name: SITE 00070  
 Site Description: RESEARCH TESTING AND EVA  
 Facility Status: CA  
 Owner Name: FACILITY ENGINEERING COMMAND, SOUTHWEST  
 Program Name: Not reported  
 UIC number: N60701  
 Environment Zone Id Number: N60701\_000003  
 Environment Zone Description: IR SITE 0070  
 Type Of Environmental Zone: Land use control zone  
 Land Use Control Description: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NWS SEAL BEACH (Continued)**

**1008196536**

Restriction Type: GROUNDWATER  
Restriction Type Defition: Groundwater use restricted  
Start Date Of Restriction: 12/21/2006  
Restriction Comments: Not reported  
LUC Status: Original Plan  
LUC Status Date: 10/4/2011  
DOD Cmd: SOUTHWEST

Site Name: SITE 00040  
Site Description: CONCRETE PIT/GRAVEL AREA  
Facility Status: CA  
Owner Name: FACILITY ENGINEERING COMMAND, SOUTHWEST  
Program Name: Not reported  
UIC number: N60701  
Environment Zone Id Number: N60701\_000002  
Environment Zone Description:IR SITE 0040  
Type Of Environmental Zone: Land use control zone  
Land Use Control Description: Not reported  
Restriction Type: GROUNDWATER  
Restriction Type Defition: Groundwater use restricted  
Start Date Of Restriction: 5/31/2004  
Restriction Comments: Not reported  
LUC Status: Original Plan  
LUC Status Date: 10/4/2011  
DOD Cmd: SOUTHWEST

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/20/2015
	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: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	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: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### 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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/07/2014	Telephone: 703-603-8704
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 04/08/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### 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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/09/2014  
Date Data Arrived at EDR: 12/29/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 31

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

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

Date of Government Version: 12/09/2014  
Date Data Arrived at EDR: 12/29/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

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

Date of Government Version: 12/09/2014  
Date Data Arrived at EDR: 12/29/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
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: 12/09/2014  
Date Data Arrived at EDR: 12/29/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
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: 12/09/2014  
Date Data Arrived at EDR: 12/29/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### 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: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/26/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/15/2015
	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: 09/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/19/2014	Telephone: 703-603-0695
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/26/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/15/2015
	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: 12/03/2014	Source: Department of the Navy
Date Data Arrived at EDR: 12/12/2014	Telephone: 843-820-7326
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 02/16/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

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

Date of Government Version: 09/29/2014	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/30/2014	Telephone: 202-267-2180
Date Made Active in Reports: 11/06/2014	Last EDR Contact: 03/31/2015
Number of Days to Update: 37	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

### RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 03/11/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/12/2015	Telephone: 916-323-3400
Date Made Active in Reports: 03/18/2015	Last EDR Contact: 05/05/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/11/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/12/2015	Telephone: 916-323-3400
Date Made Active in Reports: 03/18/2015	Last EDR Contact: 05/05/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Quarterly

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

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

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

Date of Government Version: 02/16/2015	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 02/17/2015	Telephone: 916-341-6320
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 02/17/2015
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Quarterly

## **State and tribal leaking storage tank lists**

### LUST REG 8: Leaking Underground Storage Tanks

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

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

### LUST REG 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	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

### LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## LUST REG 3: Leaking Underground Storage Tank Database

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

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: No Update Planned

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

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

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

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

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)  
Telephone: 760-776-8943  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## LUST: 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: 03/13/2015  
Date Data Arrived at EDR: 03/18/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 6

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 03/18/2015  
Next Scheduled EDR Contact: 06/29/2015  
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: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 07/22/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6710  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

## 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: 03/13/2015  
Date Data Arrived at EDR: 03/18/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 6

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/18/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

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

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-286-0457  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

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

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

Date of Government Version: 05/18/2006  
Date Data Arrived at EDR: 05/18/2006  
Date Made Active in Reports: 06/15/2006  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-549-3147  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/17/2004  
Date Data Arrived at EDR: 11/18/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6600  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: Varies

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

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

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

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

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

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

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

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 6L: SLIC Sites

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

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

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

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

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

Date of Government Version: 02/03/2015  
Date Data Arrived at EDR: 02/12/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 29

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Quarterly

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: 01/28/2015  
Date Data Arrived at EDR: 01/30/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 42

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
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: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

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

Date of Government Version: 01/23/2015  
Date Data Arrived at EDR: 02/10/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 31

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Varies

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

Date of Government Version: 09/30/2014  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 10

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
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: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 184

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 04/03/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 02/05/2015	Telephone: 312-886-7439
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/10/2015
	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: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 01/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 05/11/2015
	Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

#### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/13/2015	Source: SWRCB
Date Data Arrived at EDR: 03/18/2015	Telephone: 916-341-5851
Date Made Active in Reports: 03/26/2015	Last EDR Contact: 03/18/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Semi-Annually

#### AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 07/13/2015
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/13/2015
	Data Release Frequency: Quarterly

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/13/2015	Telephone: 214-665-7591
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 01/26/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/11/2015
	Data Release Frequency: Semi-Annually

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015	Source: EPA Region 10
Date Data Arrived at EDR: 02/12/2015	Telephone: 206-553-2857
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 29	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Quarterly

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/14/2014  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 28

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 01/26/2015  
Next Scheduled EDR Contact: 05/11/2015  
Data Release Frequency: Quarterly

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015  
Date Data Arrived at EDR: 01/30/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 42

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013  
Date Data Arrived at EDR: 05/01/2013  
Date Made Active in Reports: 01/27/2014  
Number of Days to Update: 271

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 04/28/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 10

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Semi-Annually

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/13/2015  
Number of Days to Update: 36

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

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

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 04/13/2015  
Next Scheduled EDR Contact: 07/27/2015  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

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

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014  
Date Data Arrived at EDR: 10/01/2014  
Date Made Active in Reports: 11/06/2014  
Number of Days to Update: 36

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 04/02/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Varies

### **VCP: Voluntary Cleanup Program Properties**

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 03/11/2015  
Date Data Arrived at EDR: 03/12/2015  
Date Made Active in Reports: 03/18/2015  
Number of Days to Update: 6

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/05/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014  
Date Data Arrived at EDR: 12/22/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 38

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/24/2015  
Next Scheduled EDR Contact: 07/06/2015  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 04/23/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: No Update Planned

## ODI: Open Dump Inventory

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

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

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

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/16/2015  
Date Data Arrived at EDR: 03/18/2015  
Date Made Active in Reports: 03/26/2015  
Number of Days to Update: 8

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 03/18/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Quarterly

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 04/04/2015  
Date Data Arrived at EDR: 04/07/2015  
Date Made Active in Reports: 04/13/2015  
Number of Days to Update: 6

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 02/16/2015  
Next Scheduled EDR Contact: 06/01/2015  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 05/01/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

## WMUDS/SWAT: Waste Management Unit Database

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

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

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Local Lists of Hazardous waste / Contaminated Sites**

### **US CDL: Clandestine Drug Labs**

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

Date of Government Version: 02/25/2015	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/10/2015	Telephone: 202-307-1000
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 03/03/2015
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/15/2015
	Data Release Frequency: Quarterly

### **HIST CAL-SITES: Calsites Database**

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

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

### **SCH: School Property Evaluation Program**

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 03/11/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/12/2015	Telephone: 916-323-3400
Date Made Active in Reports: 03/18/2015	Last EDR Contact: 05/05/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/17/2015
	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

### **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: 12/31/2014	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/10/2015	Telephone: 916-255-6504
Date Made Active in Reports: 03/18/2015	Last EDR Contact: 04/13/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 07/27/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 02/25/2015	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/10/2015	Telephone: 202-307-1000
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 03/03/2015
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/15/2015
	Data Release Frequency: No Update Planned

## **Local Lists of Registered Storage Tanks**

### 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

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009	Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009	Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 02/26/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/15/2015
	Data Release Frequency: Annually

### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Local Land Records**

### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

## LIENS: Environmental Liens Listing

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

Date of Government Version: 03/11/2015  
Date Data Arrived at EDR: 03/13/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 11

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Varies

## DEED: Deed Restriction Listing

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

Date of Government Version: 03/09/2015  
Date Data Arrived at EDR: 03/10/2015  
Date Made Active in Reports: 03/18/2015  
Number of Days to Update: 8

Source: DTSC and SWRCB  
Telephone: 916-323-3400  
Last EDR Contact: 03/10/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/29/2014  
Date Data Arrived at EDR: 12/30/2014  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 69

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 03/31/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Annually

### 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: 01/21/2015  
Date Data Arrived at EDR: 01/28/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 29

Source: Office of Emergency Services  
Telephone: 916-845-8400  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

### LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/13/2015  
Date Data Arrived at EDR: 03/18/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 6

Source: State Water Quality Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/18/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/13/2015	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/18/2015	Telephone: 866-480-1028
Date Made Active in Reports: 03/24/2015	Last EDR Contact: 03/18/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Quarterly

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 12/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/29/2014	Telephone: (415) 495-8895
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/31/2015
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 05/05/2015
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2015
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/27/2015
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/06/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 09/18/2014  
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/13/2015  
Next Scheduled EDR Contact: 06/22/2015  
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.

Date of Government Version: 01/23/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 24

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
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: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/10/2015  
Next Scheduled EDR Contact: 06/22/2015  
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: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 02/27/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## US MINES: Mines Master Index File

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

Date of Government Version: 12/30/2014  
Date Data Arrived at EDR: 12/31/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/06/2015  
Next Scheduled EDR Contact: 06/15/2015  
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.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/31/2013  
Date Made Active in Reports: 09/13/2013  
Number of Days to Update: 44

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 01/29/2015  
Next Scheduled EDR Contact: 06/08/2015  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 03/27/2015  
Next Scheduled EDR Contact: 07/06/2015  
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: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Quarterly

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

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Quarterly

**HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing**

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing**

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

**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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/10/2015  
Next Scheduled EDR Contact: 08/10/2015  
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: 01/23/2015  
Date Data Arrived at EDR: 02/06/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 04/09/2015  
Next Scheduled EDR Contact: 07/27/2015  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 10/15/2014  
Date Made Active in Reports: 11/17/2014  
Number of Days to Update: 33

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 04/17/2015  
Next Scheduled EDR Contact: 07/27/2015  
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: 12/29/2014  
Date Data Arrived at EDR: 01/08/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 21

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
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: 02/27/2015  
Date Data Arrived at EDR: 02/27/2015  
Date Made Active in Reports: 03/25/2015  
Number of Days to Update: 26

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/09/2015  
Next Scheduled EDR Contact: 07/20/2015  
Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015  
Date Data Arrived at EDR: 02/27/2015  
Date Made Active in Reports: 03/25/2015  
Number of Days to Update: 26

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/13/2015	Telephone: 202-564-8600
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 02/24/2015
Number of Days to Update: 52	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Biennially

## 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/19/2014	Source: Department of Conservation
Date Data Arrived at EDR: 12/15/2014	Telephone: 916-445-2408
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/20/2015
Number of Days to Update: 45	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 03/12/2015	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/13/2015	Telephone: 916-445-9379
Date Made Active in Reports: 03/24/2015	Last EDR Contact: 03/13/2015
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/01/2015
	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).

Date of Government Version: 03/10/2015	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/31/2015	Telephone: 916-323-3400
Date Made Active in Reports: 04/10/2015	Last EDR Contact: 03/31/2015
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CAL SITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 03/23/2015
Number of Days to Update: 18	Next Scheduled EDR Contact: 07/06/2015
	Data Release Frequency: No Update Planned

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/18/2015	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 02/20/2015	Telephone: 916-327-4498
Date Made Active in Reports: 03/12/2015	Last EDR Contact: 03/09/2015
Number of Days to Update: 20	Next Scheduled EDR Contact: 06/22/2015
	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: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 03/30/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2015	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/28/2015	Telephone: 916-445-9379
Date Made Active in Reports: 02/26/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 29	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2013	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/15/2014	Telephone: 916-255-1136
Date Made Active in Reports: 11/19/2014	Last EDR Contact: 04/17/2015
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/27/2015
	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: 12/31/2012	Source: California Air Resources Board
Date Data Arrived at EDR: 03/25/2014	Telephone: 916-322-2990
Date Made Active in Reports: 04/28/2014	Last EDR Contact: 03/27/2015
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/06/2015
	Data Release Frequency: Varies

## 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	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2015
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/27/2015
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/18/2015
Number of Days to Update: 54	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Varies

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/13/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/25/2015
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 02/23/2015
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/07/2015
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 05/01/2015
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 02/02/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/06/2015	Telephone: 916-255-3628
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/10/2015
	Data Release Frequency: Varies

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/16/2015	Source: Department of Conservation
Date Data Arrived at EDR: 03/18/2015	Telephone: 916-323-3836
Date Made Active in Reports: 03/24/2015	Last EDR Contact: 03/18/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Quarterly

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2015
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/27/2015
	Data Release Frequency: N/A

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/26/2014	Telephone: 703-603-8787
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Varies

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 02/13/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/25/2015
	Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2015	Telephone: 202-566-1917
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 02/16/2015
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Quarterly

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/13/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/22/2015
	Data Release Frequency: Varies

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/16/2015	Source: Department of Public Health
Date Data Arrived at EDR: 03/10/2015	Telephone: 916-558-1784
Date Made Active in Reports: 03/18/2015	Last EDR Contact: 03/10/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/22/2015
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 04/15/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 07/27/2015
	Data Release Frequency: Varies

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014	Source: EPA
Date Data Arrived at EDR: 10/31/2014	Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 03/30/2015
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014	Source: EPA
Date Data Arrived at EDR: 10/31/2014	Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 03/30/2015
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/13/2015
	Data Release Frequency: Annually

### HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/13/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/15/2015	Telephone: 916-440-7145
Date Made Active in Reports: 04/23/2015	Last EDR Contact: 04/15/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 07/27/2015
	Data Release Frequency: Quarterly

### HWP: EnviroStor Permitted Facilities Listing

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

Date of Government Version: 02/23/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2015	Telephone: 916-323-3400
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 02/24/2015
Number of Days to Update: 7	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

### Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2015	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 02/20/2015	Telephone: 916-341-6066
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 02/16/2015
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/13/2014  
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## 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: 01/21/2015  
Date Data Arrived at EDR: 01/28/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 29

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015  
Date Data Arrived at EDR: 01/28/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 29

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA Facility List

Cupa Facility List

Date of Government Version: 03/09/2015  
Date Data Arrived at EDR: 03/24/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 7

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Varies

### BUTTE COUNTY:

#### CUPA Facility Listing

Cupa facility list.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/20/2014  
Date Data Arrived at EDR: 11/24/2014  
Date Made Active in Reports: 01/07/2015  
Number of Days to Update: 44

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 04/14/2015  
Next Scheduled EDR Contact: 04/27/2015  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

### CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 04/17/2015  
Date Data Arrived at EDR: 04/21/2015  
Date Made Active in Reports: 05/07/2015  
Number of Days to Update: 16

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA Facility List Cupa facility list.

Date of Government Version: 06/11/2014  
Date Data Arrived at EDR: 06/13/2014  
Date Made Active in Reports: 07/07/2014  
Number of Days to Update: 24

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 05/07/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Varies

## CONTRA COSTA COUNTY:

### Site List

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

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/25/2015  
Date Made Active in Reports: 03/04/2015  
Number of Days to Update: 7

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 05/04/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

### CUPA Facility List Cupa Facility list

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/25/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 6

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 05/04/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA Facility List CUPA facility list.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/24/2015  
Date Data Arrived at EDR: 02/25/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 6

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 05/04/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

## FRESNO COUNTY:

### 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: 03/31/2015  
Date Data Arrived at EDR: 04/15/2015  
Date Made Active in Reports: 04/23/2015  
Number of Days to Update: 8

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 04/06/2015  
Next Scheduled EDR Contact: 07/20/2015  
Data Release Frequency: Semi-Annually

## HUMBOLDT COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 03/11/2015  
Date Data Arrived at EDR: 03/13/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 11

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## IMPERIAL COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 02/10/2015  
Date Data Arrived at EDR: 02/12/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 19

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 09/11/2013  
Date Made Active in Reports: 10/14/2013  
Number of Days to Update: 33

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## KERN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 07/22/2014  
Date Data Arrived at EDR: 11/12/2014  
Date Made Active in Reports: 12/19/2014  
Number of Days to Update: 37

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 05/07/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/26/2015  
Date Data Arrived at EDR: 04/16/2015  
Date Made Active in Reports: 04/23/2015  
Number of Days to Update: 7

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 04/10/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2015  
Date Data Arrived at EDR: 01/21/2015  
Date Made Active in Reports: 02/05/2015  
Number of Days to Update: 15

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 04/16/2015  
Next Scheduled EDR Contact: 08/03/2015  
Data Release Frequency: Varies

## 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: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 07/06/2015  
Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014  
Date Data Arrived at EDR: 01/30/2015  
Date Made Active in Reports: 03/04/2015  
Number of Days to Update: 33

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 04/13/2015  
Next Scheduled EDR Contact: 07/27/2015  
Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/20/2015  
Date Data Arrived at EDR: 04/20/2015  
Date Made Active in Reports: 05/07/2015  
Number of Days to Update: 17

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 04/20/2015  
Next Scheduled EDR Contact: 08/03/2015  
Data Release Frequency: Varies

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 04/15/2015  
Next Scheduled EDR Contact: 08/03/2015  
Data Release Frequency: Varies

## Site Mitigation List

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

Date of Government Version: 01/15/2015  
Date Data Arrived at EDR: 01/29/2015  
Date Made Active in Reports: 03/10/2015  
Number of Days to Update: 40

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 04/16/2015  
Next Scheduled EDR Contact: 08/03/2015  
Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015  
Date Data Arrived at EDR: 04/02/2015  
Date Made Active in Reports: 04/13/2015  
Number of Days to Update: 11

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 03/06/2015  
Next Scheduled EDR Contact: 08/03/2015  
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: 01/29/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 13

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/14/2015  
Date Data Arrived at EDR: 04/23/2015  
Date Made Active in Reports: 05/11/2015  
Number of Days to Update: 18

Source: City of Torrance Fire Department  
Telephone: 310-618-2973  
Last EDR Contact: 04/13/2015  
Next Scheduled EDR Contact: 07/27/2015  
Data Release Frequency: Semi-Annually

## MADERA COUNTY:

### CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2015  
Date Data Arrived at EDR: 03/24/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 7

Source: Madera County Environmental Health  
Telephone: 559-675-7823  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014  
Date Data Arrived at EDR: 10/22/2014  
Date Made Active in Reports: 12/15/2014  
Number of Days to Update: 54

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 05/05/2015  
Next Scheduled EDR Contact: 07/20/2015  
Data Release Frequency: Semi-Annually

## MERCED COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 7

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA Facility List

CUPA Facility List

Date of Government Version: 02/27/2015  
Date Data Arrived at EDR: 03/06/2015  
Date Made Active in Reports: 03/10/2015  
Number of Days to Update: 4

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 02/26/2015  
Next Scheduled EDR Contact: 06/15/2015  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/19/2015  
Date Data Arrived at EDR: 03/20/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 11

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## NAPA COUNTY:

### Sites With Reported Contamination

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/06/2011  
Date Made Active in Reports: 02/07/2012  
Number of Days to Update: 63

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 02/26/2015  
Next Scheduled EDR Contact: 06/15/2015  
Data Release Frequency: No Update Planned

## 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: 02/26/2015  
Next Scheduled EDR Contact: 06/15/2015  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 02/12/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 18

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 05/04/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 18

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 18

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2015  
Date Data Arrived at EDR: 02/13/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 13

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/09/2015  
Next Scheduled EDR Contact: 05/25/2015  
Data Release Frequency: Quarterly

## PLACER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2015  
Date Data Arrived at EDR: 03/12/2015  
Date Made Active in Reports: 03/18/2015  
Number of Days to Update: 6

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
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: 01/28/2015  
Date Data Arrived at EDR: 01/29/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 33

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 07/06/2015  
Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 01/28/2015  
Date Data Arrived at EDR: 01/29/2015  
Date Made Active in Reports: 02/26/2015  
Number of Days to Update: 28

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 07/06/2015  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

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

Date of Government Version: 02/02/2015  
Date Data Arrived at EDR: 04/08/2015  
Date Made Active in Reports: 04/16/2015  
Number of Days to Update: 8

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 04/08/2015  
Next Scheduled EDR Contact: 07/20/2015  
Data Release Frequency: Quarterly

### Master Hazardous Materials Facility List

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

Date of Government Version: 02/02/2015  
Date Data Arrived at EDR: 04/08/2015  
Date Made Active in Reports: 04/16/2015  
Number of Days to Update: 8

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 04/08/2015  
Next Scheduled EDR Contact: 07/20/2015  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/02/2015  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/10/2015  
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 02/09/2015  
Next Scheduled EDR Contact: 05/25/2015  
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: 09/23/2013  
Date Data Arrived at EDR: 09/24/2013  
Date Made Active in Reports: 10/17/2013  
Number of Days to Update: 23

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 03/10/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Quarterly

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014  
Date Data Arrived at EDR: 11/21/2014  
Date Made Active in Reports: 12/29/2014  
Number of Days to Update: 38

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
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: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

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

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010  
Date Data Arrived at EDR: 03/10/2011  
Date Made Active in Reports: 03/15/2011  
Number of Days to Update: 5

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## San Joaquin Co. UST

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

Date of Government Version: 03/24/2015  
Date Data Arrived at EDR: 03/25/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 6

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 03/23/2015  
Next Scheduled EDR Contact: 07/06/2015  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 7

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

### Business Inventory

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

Date of Government Version: 04/13/2015  
Date Data Arrived at EDR: 04/15/2015  
Date Made Active in Reports: 04/23/2015  
Number of Days to Update: 8

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/16/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Annually

### Fuel Leak List

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

Date of Government Version: 03/16/2015  
Date Data Arrived at EDR: 03/17/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 7

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/13/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## SANTA CLARA COUNTY:

### Cupa Facility List

Cupa facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/25/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 6

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

## LOP Listing

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

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 02/26/2015  
Next Scheduled EDR Contact: 06/15/2015  
Data Release Frequency: Annually

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/23/2015  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 03/04/2015  
Number of Days to Update: 8

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 05/07/2015  
Next Scheduled EDR Contact: 08/24/2015  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/24/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 12/31/2014  
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/11/2015  
Date Data Arrived at EDR: 03/13/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 11

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Varies

## SOLANO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Leaking Underground Storage Tanks

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

Date of Government Version: 03/13/2015  
Date Data Arrived at EDR: 03/19/2015  
Date Made Active in Reports: 03/24/2015  
Number of Days to Update: 5

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/13/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Quarterly

## Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015  
Date Data Arrived at EDR: 03/20/2015  
Date Made Active in Reports: 03/31/2015  
Number of Days to Update: 11

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/13/2015  
Next Scheduled EDR Contact: 06/29/2015  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Cupa Facility List

Cupa Facility list

Date of Government Version: 03/31/2015  
Date Data Arrived at EDR: 04/02/2015  
Date Made Active in Reports: 04/10/2015  
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Varies

### Leaking Underground Storage Tank Sites

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

Date of Government Version: 04/01/2015  
Date Data Arrived at EDR: 04/02/2015  
Date Made Active in Reports: 04/13/2015  
Number of Days to Update: 11

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 03/30/2015  
Next Scheduled EDR Contact: 07/13/2015  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/09/2015  
Date Data Arrived at EDR: 03/10/2015  
Date Made Active in Reports: 03/18/2015  
Number of Days to Update: 8

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 03/09/2015  
Next Scheduled EDR Contact: 06/22/2015  
Data Release Frequency: Semi-Annually

## TUOLUMNE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 01/30/2015  
Date Data Arrived at EDR: 02/03/2015  
Date Made Active in Reports: 02/27/2015  
Number of Days to Update: 24

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 04/27/2015  
Next Scheduled EDR Contact: 08/10/2015  
Data Release Frequency: Varies

## VENTURA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/27/2015	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 02/19/2015	Telephone: 805-654-2813
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 02/16/2015
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/01/2015
	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: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 04/02/2015
Number of Days to Update: 49	Next Scheduled EDR Contact: 07/20/2015
	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: 02/16/2015
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/01/2015
	Data Release Frequency: Quarterly

## Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/29/2014	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 01/30/2015	Telephone: 805-654-2813
Date Made Active in Reports: 03/03/2015	Last EDR Contact: 04/27/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/10/2015
	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: 02/27/2015	Source: Environmental Health Division
Date Data Arrived at EDR: 03/18/2015	Telephone: 805-654-2813
Date Made Active in Reports: 03/26/2015	Last EDR Contact: 03/18/2015
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2015	Source: Yolo County Department of Health
Date Data Arrived at EDR: 04/01/2015	Telephone: 530-666-8646
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 03/23/2015
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/06/2015
	Data Release Frequency: Annually

## YUBA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 02/17/2015  
Date Data Arrived at EDR: 02/19/2015  
Date Made Active in Reports: 03/03/2015  
Number of Days to Update: 12

Source: Yuba County Environmental Health Department  
Telephone: 530-749-7523  
Last EDR Contact: 05/04/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 11/17/2014  
Next Scheduled EDR Contact: 03/02/2015  
Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 08/28/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 04/14/2015  
Next Scheduled EDR Contact: 07/27/2015  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2015  
Date Data Arrived at EDR: 02/04/2015  
Date Made Active in Reports: 02/27/2015  
Number of Days to Update: 23

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/06/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/21/2014  
Date Made Active in Reports: 08/25/2014  
Number of Days to Update: 35

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/16/2015  
Next Scheduled EDR Contact: 08/03/2015  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/15/2014  
Date Made Active in Reports: 08/13/2014  
Number of Days to Update: 29

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/23/2015  
Next Scheduled EDR Contact: 06/08/2015  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014

Date Data Arrived at EDR: 03/19/2015

Date Made Active in Reports: 04/07/2015

Number of Days to Update: 19

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/13/2015

Next Scheduled EDR Contact: 06/29/2015

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.

**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 2003 & 2011 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, 2005 and 2010 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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

### **TARGET PROPERTY ADDRESS**

AES ALAMITOS PLANT  
690 NORTH STUDEBAKER ROAD  
LONG BEACH, CA 90803

### **TARGET PROPERTY COORDINATES**

Latitude (North):	33.7673 - 33° 46' 2.28"
Longitude (West):	118.1 - 118° 5' 60.00"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	398136.5
UTM Y (Meters):	3736705.0
Elevation:	11 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	33118-G1 LOS ALAMITOS, CA
Most Recent Revision:	1981

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 principal 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).

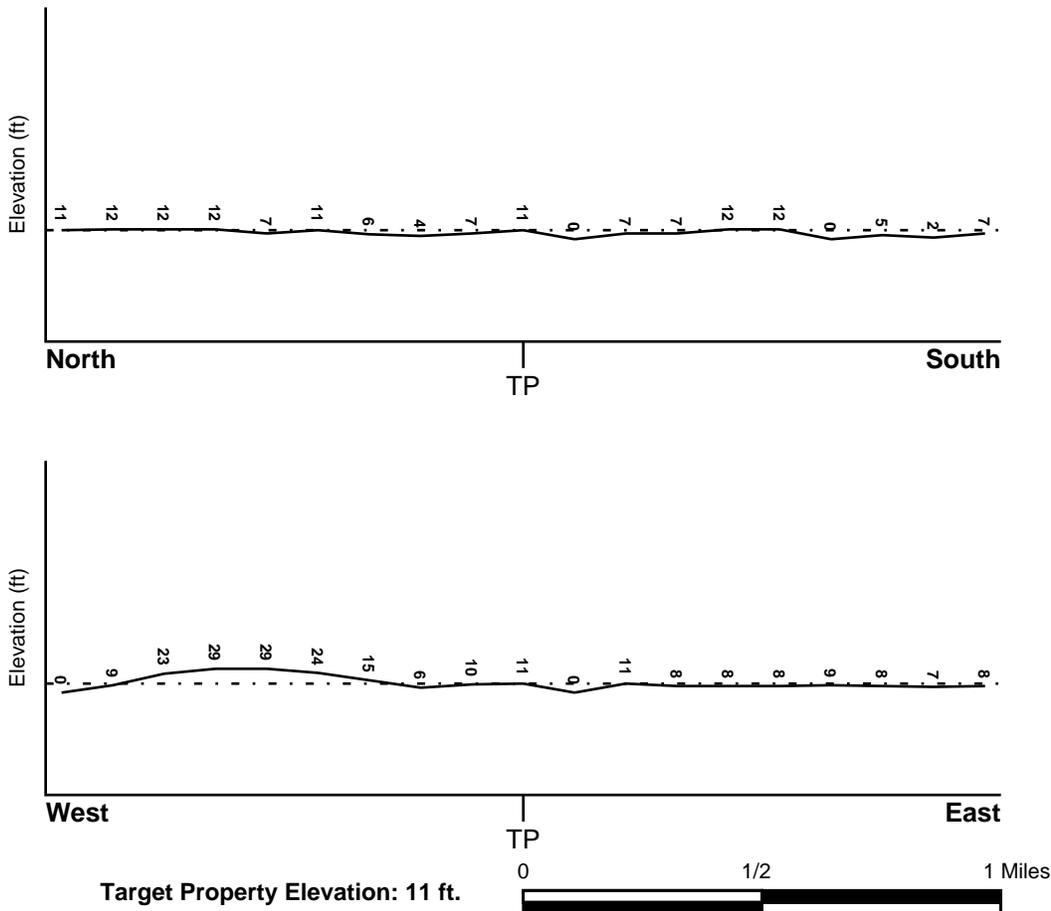
## TOPOGRAPHIC INFORMATION

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 WNW

## 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

Target Property County  
LOS ANGELES, CA

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: 06059C - FEMA DFIRM Flood data

## NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
LOS ALAMITOS

NWI Electronic  
Data Coverage  
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  
Code: Q (*decoded above as Era, System & Series*)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Surficial Soil Types: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Shallow Soil Types: fine sandy loam  
 gravelly - loam  
 sand  
 silty clay

Deeper Soil Types: stratified  
 clay loam  
 silty clay loam  
 gravelly - sandy loam  
 coarse sand  
 sand  
 weathered bedrock  
 very fine sandy loam

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

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

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS State Database	Nearest PWS within 0.001 miles 1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	USGS40000138016	1/4 - 1/2 Mile ENE
A4	USGS40000138015	1/4 - 1/2 Mile ENE
5	USGS40000138076	1/2 - 1 Mile NW
B6	USGS40000138051	1/2 - 1 Mile ENE
B7	USGS40000138050	1/2 - 1 Mile ENE
B8	USGS40000138052	1/2 - 1 Mile ENE
B9	USGS40000138054	1/2 - 1 Mile ENE
B10	USGS40000138053	1/2 - 1 Mile ENE
B11	USGS40000138049	1/2 - 1 Mile ENE
B12	USGS40000138048	1/2 - 1 Mile ENE
B13	USGS40000138036	1/2 - 1 Mile ENE
B14	USGS40000138037	1/2 - 1 Mile ENE

## **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>
A1	CADW500000003115	1/8 - 1/4 Mile ENE
A2	CADW500000003116	1/4 - 1/2 Mile ENE

## OTHER STATE DATABASE INFORMATION

## **STATE OIL/GAS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG9A000011999	1/4 - 1/2 Mile ESE
2	CAOG9A000011151	1/4 - 1/2 Mile SSW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	CAOG9A000010983	1/2 - 1 Mile SW
A4	CAOG9A000010979	1/2 - 1 Mile SW
A5	CAOG9A000010984	1/2 - 1 Mile SW
B6	CAOG9A000010608	1/2 - 1 Mile SSW
7	CAOG9A000010951	1/2 - 1 Mile SE
C8	CAOG9A000011173	1/2 - 1 Mile SW
A9	CAOG9A000010783	1/2 - 1 Mile SSW
C10	CAOG9A000011024	1/2 - 1 Mile SW
C11	CAOG9A000011263	1/2 - 1 Mile SW
12	CAOG9A000010233	1/2 - 1 Mile South
D13	CAOG9A000011386	1/2 - 1 Mile WSW
E14	CAOG9A000010828	1/2 - 1 Mile SW
D15	CAOG9A000011518	1/2 - 1 Mile WSW
B16	CAOG9A000010172	1/2 - 1 Mile SSW
E17	CAOG9A000010796	1/2 - 1 Mile SW
C18	CAOG9A000010978	1/2 - 1 Mile SW
C19	CAOG9A000011048	1/2 - 1 Mile SW
D20	CAOG9A000011538	1/2 - 1 Mile WSW
F21	CAOG9A000010380	1/2 - 1 Mile SSW
22	CAOG9A000010160	1/2 - 1 Mile SSE
D23	CAOG9A000011324	1/2 - 1 Mile WSW
G24	CAOG9A000010072	1/2 - 1 Mile SSW
D25	CAOG9A000011457	1/2 - 1 Mile WSW
H26	CAOG9A000009998	1/2 - 1 Mile South
E27	CAOG9A000010481	1/2 - 1 Mile SW
F28	CAOG9A000010107	1/2 - 1 Mile SSW
G29	CAOG9A000010050	1/2 - 1 Mile SSW
H30	CAOG9A000009978	1/2 - 1 Mile South
G31	CAOG9A000009987	1/2 - 1 Mile SSW
I32	CAOG9A000012105	1/2 - 1 Mile West
J33	CAOG9A000011062	1/2 - 1 Mile SW
K34	CAOG9A000009942	1/2 - 1 Mile South
L35	CAOG9A000010559	1/2 - 1 Mile SW
M36	CAOG9A000011438	1/2 - 1 Mile WSW
G37	CAOG9A000009959	1/2 - 1 Mile SSW
M38	CAOG9A000011445	1/2 - 1 Mile WSW
J39	CAOG9A000011169	1/2 - 1 Mile WSW
L40	CAOG9A000010610	1/2 - 1 Mile SW
I41	CAOG9A000011966	1/2 - 1 Mile West
G42	CAOG9A000009938	1/2 - 1 Mile SSW
H43	CAOG9A000009887	1/2 - 1 Mile South
G44	CAOG9A000009985	1/2 - 1 Mile SSW
G45	CAOG9A000009926	1/2 - 1 Mile SSW
L46	CAOG9A000010487	1/2 - 1 Mile SW
N47	CAOG9A000010143	1/2 - 1 Mile SSW
M48	CAOG9A000011508	1/2 - 1 Mile WSW
N49	CAOG9A000010092	1/2 - 1 Mile SSW
M50	CAOG9A000011495	1/2 - 1 Mile WSW
O51	CAOG9A000010846	1/2 - 1 Mile SW
P52	CAOG9A000009819	1/2 - 1 Mile South
Q53	CAOG9A000009882	1/2 - 1 Mile SSW
R54	CAOG9A000009982	1/2 - 1 Mile SSW
M55	CAOG9A000011362	1/2 - 1 Mile WSW
K56	CAOG9A000009810	1/2 - 1 Mile South
57	CAOG9A000013902	1/2 - 1 Mile NNE
R58	CAOG9A000009946	1/2 - 1 Mile SSW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
O59	CAOG9A000010551	1/2 - 1 Mile SW
L60	CAOG9A000010148	1/2 - 1 Mile SW
P61	CAOG9A000009788	1/2 - 1 Mile South
S62	CAOG9A000009790	1/2 - 1 Mile SSE
Q63	CAOG9A000009855	1/2 - 1 Mile SSW
T64	CAOG9A000011066	1/2 - 1 Mile WSW
U65	CAOG9A000009764	1/2 - 1 Mile South
N66	CAOG9A000010147	1/2 - 1 Mile SW
R67	CAOG9A000009884	1/2 - 1 Mile SSW
Q68	CAOG9A000009789	1/2 - 1 Mile SSW
T69	CAOG9A000011088	1/2 - 1 Mile WSW
V70	CAOG9A000010378	1/2 - 1 Mile SW
Q71	CAOG9A000009767	1/2 - 1 Mile SSW
Q72	CAOG9A000009811	1/2 - 1 Mile SSW
P73	CAOG9A000009750	1/2 - 1 Mile SSW
V74	CAOG9A000010286	1/2 - 1 Mile SW
T75	CAOG9A000010933	1/2 - 1 Mile SW
R76	CAOG9A000009922	1/2 - 1 Mile SSW
O77	CAOG9A000010776	1/2 - 1 Mile SW
S78	CAOG9A000009712	1/2 - 1 Mile South
W79	CAOG9A000009724	1/2 - 1 Mile SSW
R80	CAOG9A000009794	1/2 - 1 Mile SSW
81	CAOG9A000009992	1/2 - 1 Mile SW
Q82	CAOG9A000009753	1/2 - 1 Mile SSW
X83	CAOG9A000012043	1/2 - 1 Mile West
U84	CAOG9A000009686	1/2 - 1 Mile South
Y85	CAOG9A000011349	1/2 - 1 Mile WSW
W86	CAOG9A000009701	1/2 - 1 Mile South
U87	CAOG9A000009680	1/2 - 1 Mile South
X88	CAOG9A000011993	1/2 - 1 Mile West
W89	CAOG9A000009706	1/2 - 1 Mile SSW
X90	CAOG9A000011989	1/2 - 1 Mile West
Z91	CAOG9A000011603	1/2 - 1 Mile WSW
X92	CAOG9A000011984	1/2 - 1 Mile West
T93	CAOG9A000010902	1/2 - 1 Mile SW
AA94	CAOG9A000009651	1/2 - 1 Mile South
Z95	CAOG9A000011572	1/2 - 1 Mile WSW
AB96	CAOG9A000009710	1/2 - 1 Mile SSW
X97	CAOG9A000011951	1/2 - 1 Mile West
U98	CAOG9A000009641	1/2 - 1 Mile South
W99	CAOG9A000009677	1/2 - 1 Mile SSW
AC100	CAOG9A000009657	1/2 - 1 Mile South
W101	CAOG9A000009683	1/2 - 1 Mile SSW
AD102	CAOG9A000010863	1/2 - 1 Mile SW
Y103	CAOG9A000011083	1/2 - 1 Mile WSW
AE104	CAOG9A000011051	1/2 - 1 Mile WSW
AF105	CAOG9A000010419	1/2 - 1 Mile SW
AB106	CAOG9A000009709	1/2 - 1 Mile SSW
Y107	CAOG9A000011170	1/2 - 1 Mile WSW
AA108	CAOG9A000009594	1/2 - 1 Mile South
AD109	CAOG9A000010538	1/2 - 1 Mile SW
AD110	CAOG9A000011008	1/2 - 1 Mile WSW
AG111	CAOG9A000009659	1/2 - 1 Mile SSE
AB112	CAOG9A000009661	1/2 - 1 Mile SSW
AF113	CAOG9A000010185	1/2 - 1 Mile SW
AD114	CAOG9A000010586	1/2 - 1 Mile SW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

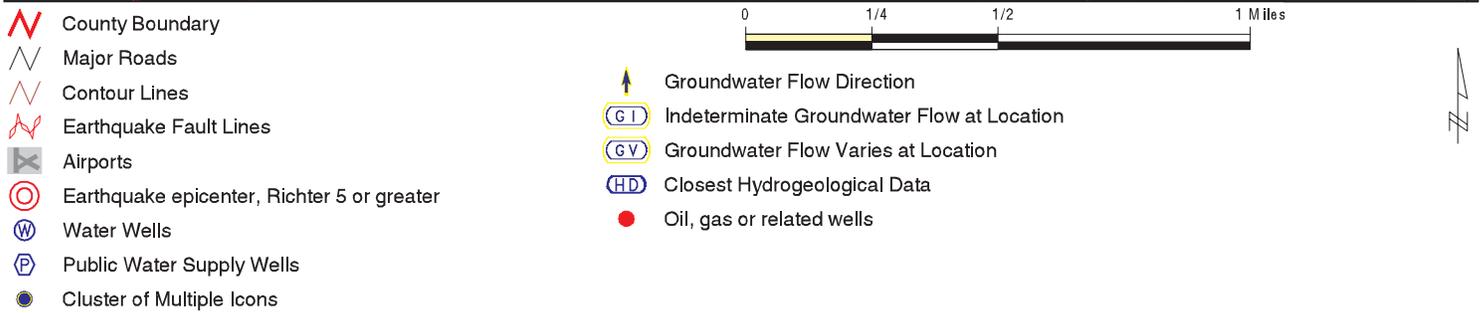
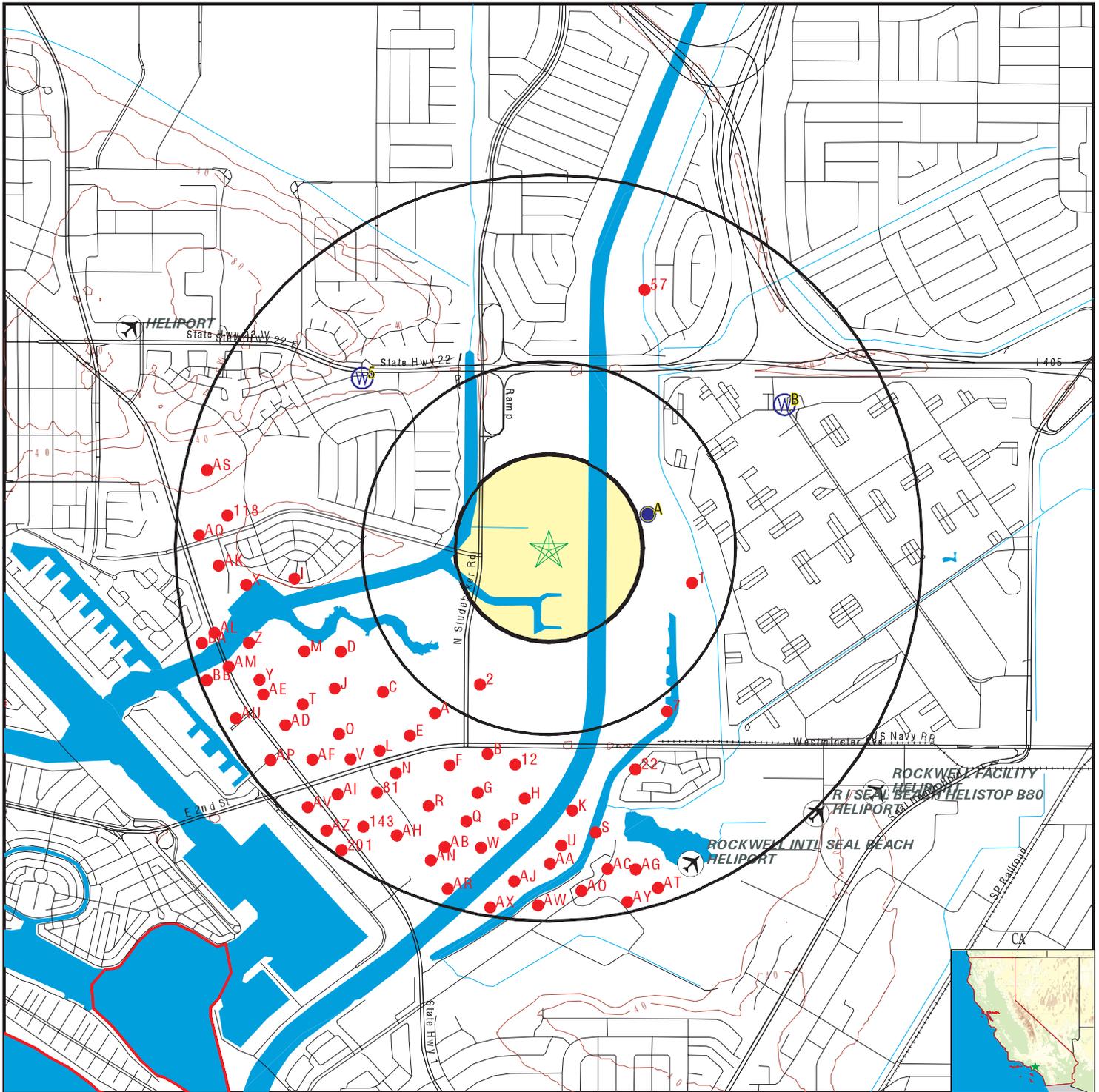
MAP ID	WELL ID	LOCATION FROM TP
Y115	CAOG9A000011182	1/2 - 1 Mile WSW
AD116	CAOG9A000010942	1/2 - 1 Mile WSW
AH117	CAOG9A000009734	1/2 - 1 Mile SSW
118	CAOG9A000012406	1/2 - 1 Mile West
AI119	CAOG9A000010003	1/2 - 1 Mile SW
W120	CAOG9A000009598	1/2 - 1 Mile SSW
AH121	CAOG9A000009714	1/2 - 1 Mile SSW
AB122	CAOG9A000009667	1/2 - 1 Mile SSW
AJ123	CAOG9A000009572	1/2 - 1 Mile South
Y124	CAOG9A000011200	1/2 - 1 Mile WSW
AA125	CAOG9A000009563	1/2 - 1 Mile South
AI126	CAOG9A000009951	1/2 - 1 Mile SW
AE127	CAOG9A000011098	1/2 - 1 Mile WSW
AK128	CAOG9A000012119	1/2 - 1 Mile West
AK129	CAOG9A000012108	1/2 - 1 Mile West
Y130	CAOG9A000011159	1/2 - 1 Mile WSW
AC131	CAOG9A000009581	1/2 - 1 Mile SSE
Z132	CAOG9A000011420	1/2 - 1 Mile WSW
AH133	CAOG9A000009766	1/2 - 1 Mile SSW
AJ134	CAOG9A000009544	1/2 - 1 Mile South
AL135	CAOG9A000011730	1/2 - 1 Mile WSW
AK136	CAOG9A000012134	1/2 - 1 Mile West
AM137	CAOG9A000011367	1/2 - 1 Mile WSW
AM138	CAOG9A000011399	1/2 - 1 Mile WSW
AN139	CAOG9A000009628	1/2 - 1 Mile SSW
AC140	CAOG9A000009538	1/2 - 1 Mile South
AO141	CAOG9A000009532	1/2 - 1 Mile South
AC142	CAOG9A000009549	1/2 - 1 Mile South
143	CAOG9A000009774	1/2 - 1 Mile SSW
AN144	CAOG9A000009599	1/2 - 1 Mile SSW
AM145	CAOG9A000011377	1/2 - 1 Mile WSW
AK146	CAOG9A000012122	1/2 - 1 Mile West
AO147	CAOG9A000009528	1/2 - 1 Mile South
AG148	CAOG9A000009545	1/2 - 1 Mile SSE
AJ149	CAOG9A000009527	1/2 - 1 Mile South
AG150	CAOG9A000009537	1/2 - 1 Mile SSE
AJ151	CAOG9A000009524	1/2 - 1 Mile South
AP152	CAOG9A000010325	1/2 - 1 Mile SW
AQ153	CAOG9A000012322	1/2 - 1 Mile West
AP154	CAOG9A000010278	1/2 - 1 Mile SW
AR155	CAOG9A000009529	1/2 - 1 Mile SSW
AP156	CAOG9A000010191	1/2 - 1 Mile SW
AO157	CAOG9A000009519	1/2 - 1 Mile South
AS158	CAOG9A000012745	1/2 - 1 Mile WNW
AP159	CAOG9A000010477	1/2 - 1 Mile SW
AP160	CAOG9A000010604	1/2 - 1 Mile WSW
AO161	CAOG9A000009523	1/2 - 1 Mile South
AT162	CAOG9A000009554	1/2 - 1 Mile SSE
AO163	CAOG9A000009522	1/2 - 1 Mile South
AU164	CAOG9A000010943	1/2 - 1 Mile WSW
AO165	CAOG9A000009520	1/2 - 1 Mile South
AU166	CAOG9A000010959	1/2 - 1 Mile WSW
AS167	CAOG9A000012634	1/2 - 1 Mile West
AV168	CAOG9A000009976	1/2 - 1 Mile SW
AS169	CAOG9A000012948	1/2 - 1 Mile WNW
AM170	CAOG9A000011215	1/2 - 1 Mile WSW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AQ171	CAOG9A000012303	1/2 - 1 Mile West
AU172	CAOG9A000010955	1/2 - 1 Mile WSW
AU173	CAOG9A000010915	1/2 - 1 Mile WSW
AU174	CAOG9A000010616	1/2 - 1 Mile WSW
AW175	CAOG9A000009511	1/2 - 1 Mile South
AU176	CAOG9A000010781	1/2 - 1 Mile WSW
AV177	CAOG9A000009875	1/2 - 1 Mile SW
AM178	CAOG9A000011172	1/2 - 1 Mile WSW
AP179	CAOG9A000010036	1/2 - 1 Mile SW
AV180	CAOG9A000009822	1/2 - 1 Mile SW
AP181	CAOG9A000010353	1/2 - 1 Mile SW
AT182	CAOG9A000009525	1/2 - 1 Mile SSE
AX183	CAOG9A000009514	1/2 - 1 Mile South
AY184	CAOG9A000009518	1/2 - 1 Mile SSE
AZ185	CAOG9A000009805	1/2 - 1 Mile SW
AW186	CAOG9A000009471	1/2 - 1 Mile South
AL187	CAOG9A000011537	1/2 - 1 Mile WSW
AW188	CAOG9A000009445	1/2 - 1 Mile South
AX189	CAOG9A000009492	1/2 - 1 Mile South
BA190	CAOG9A000011485	1/2 - 1 Mile WSW
BA191	CAOG9A000011555	1/2 - 1 Mile WSW
BA192	CAOG9A000011528	1/2 - 1 Mile WSW
AY193	CAOG9A000009509	1/2 - 1 Mile South
AU194	CAOG9A000010785	1/2 - 1 Mile WSW
AU195	CAOG9A000010994	1/2 - 1 Mile WSW
BB196	CAOG9A000011194	1/2 - 1 Mile WSW
AW197	CAOG9A000009404	1/2 - 1 Mile South
AY198	CAOG9A000009512	1/2 - 1 Mile SSE
AZ199	CAOG9A000009721	1/2 - 1 Mile SW
AR200	CAOG9A000009521	1/2 - 1 Mile SSW
201	CAOG9A000009673	1/2 - 1 Mile SW
AT202	CAOG9A000009516	1/2 - 1 Mile SSE
AU203	CAOG9A000010989	1/2 - 1 Mile WSW
AX204	CAOG9A000009388	1/2 - 1 Mile South
AY205	CAOG9A000009437	1/2 - 1 Mile SSE
BB206	CAOG9A000011167	1/2 - 1 Mile WSW
AX207	CAOG9A000009382	1/2 - 1 Mile South

# PHYSICAL SETTING SOURCE MAP - 4291472.2s



SITE NAME: AES Alamos Plant  
 ADDRESS: 690 North Studebaker Road  
 Long Beach CA 90803  
 LAT/LONG: 33.7673 / 118.1

CLIENT: Env. Management Strategies  
 CONTACT: Ashley Flores  
 INQUIRY #: 4291472.2s  
 DATE: May 12, 2015 7:42 am

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**ENE**  
**1/8 - 1/4 Mile**  
**Higher**

**CA WELLS      CADW50000003115**

Latitude :	33.7686	Casgem sta:	05S12W01E002S
Longitude :	118.096	Casgem s 1:	Unknown
Site code:	337686N1180960W001	Basin desc:	Central
Local well:	Not Reported	Site id:	CADW50000003115
County id:	19		
Basin cd:	4-11.04		
Org unit n:	Southern Region Office		

**A2**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**CA WELLS      CADW50000003116**

Latitude :	33.7686	Casgem sta:	05S12W01E001S
Longitude :	118.0957	Casgem s 1:	Unknown
Site code:	337686N1180957W001	Basin desc:	Central
Local well:	Not Reported	Site id:	CADW50000003116
County id:	19		
Basin cd:	4-11.04		
Org unit n:	Southern Region Office		

**A3**  
**ENE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000138016**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334607118053901		
Monloc name:	005S012W01E002S		
Monloc type:	Well		
Monloc desc:	ORIGINAL DEPTH 187 FT, SOUNDED 173.5 FT 8/95		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7686281
Longitude:	-118.0950643	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.1
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	173.5
Construction date:	19590601	Wellholedepth:	210
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1995-08-30	11.42	

**A4**  
**ENE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000138015**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334607118053801		
Monloc name:	005S012W01E001S		
Monloc type:	Well		
Monloc desc:	ORIGINAL DEPTH 635 FT, SOUNDED AT 630.95 FT 8/95		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7686281
Longitude:	-118.0947865	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.2
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19590529	Welldepth:	630.95
Welldepth units:	ft	Wellholedepth:	900
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1995-08-30	42.68	

**5**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138076**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334626118062801		
Monloc name:	005S012W02C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7739059
Longitude:	-118.108676	Sourcemap scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	1020
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1977-02-03	26.80	

**B6**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000138051**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052004		
Monloc name:	005S012W01C006S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20100505	Welldepth:	795
Welldepth units:	ft	Wellholedepth:	1505
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B7**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000138050**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052003		
Monloc name:	005S012W01C005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20100505	Welldepth:	1040
Welldepth units:	ft	Wellholedepth:	1505
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B8**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138052**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052005		
Monloc name:	005S012W01C007S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20100505	Welldepth:	625
Welldepth units:	ft	Wellholedepth:	1505
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

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

**FED USGS      USGS40000138054**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052007		
Monloc name:	005S012W01C009S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20100505	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	1505
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B10**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138053**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052006		
Monloc name:	005S012W01C008S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	235
Construction date:	20100505	Wellholeddepth:	1505
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B11**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138049**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052002		
Monloc name:	005S012W01C004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20100505	Welldepth:	1180
Welldepth units:	ft	Wellholeddepth:	1505
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B12**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138048**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334622118052001		
Monloc name:	005S012W01C003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7729167
Longitude:	-118.0890833	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	10
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	1485
Construction date:	20100505	Wellholedepth:	1505
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B13**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138036**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334620118051801		
Monloc name:	005S012W01C0002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7727222
Longitude:	-118.0888333	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	11
Vert measure units:	feet	Vertacc measure val:	4.3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650527	Welldepth:	470
Welldepth units:	ft	Wellholedepth:	475
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B14**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000138037**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334620118051802		
Monloc name:	005S012W01C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7727222
Longitude:	-118.0888333	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	11
Vert measure units:	feet	Vertacc measure val:	4.3
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	372
Construction date:	19650527	Wellholedepth:	475
Welldepth units:	ft		
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**1**

**ESE**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**CAOG9A000011999**

Districtnu:	1	Apinumber:	03708560
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Any Field
Areaname:	Any Area		
Section:	1		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.765938		
Glong:	-118.093336		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant Estate (nct-1)	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000011999

**2**

**SSW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**CAOG9A000011151**

Districtnu:	1	Apinumber:	03708984
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Union Oil Company of California		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.761986		
Glong:	-118.103201		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000011151

**A3**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**CAOG9A000010983**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707130
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.028
Locationde:	Not Reported		
Glat:	33.761136		
Glong:	-118.105276		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	58
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWF	Site id:	CAOG9A000010983

**A4  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010979**

Districtnu:	1	Apinumber:	03707145
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.7611		
Glong:	-118.105419		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	74
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010979

**A5  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010984**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707142
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.636
Locationde:	Not Reported		
Glat:	33.761137		
Glong:	-118.105639		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	70
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010984

**B6  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010608**

Districtnu:	1	Apinumber:	03707998
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75984		
Glong:	-118.102838		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010608

**7  
SE  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010951**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707992
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Any Field
Areaname:	Any Area		
Section:	1		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.760943		
Glong:	-118.094497		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000010951

**C8  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011173**

Districtnu:	1	Apinumber:	03707139
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	3.978
Locationde:	Not Reported		
Glat:	33.762089		
Glong:	-118.107398		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	67
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWF	Site id:	CAOG9A000011173

**A9  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010783**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706351
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.181
Locationde:	Not Reported		
Glat:	33.760131		
Glong:	-118.104856		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	53
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000010783

**C10  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011024**

Districtnu:	1	Apinumber:	03707131
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.396
Locationde:	Not Reported		
Glat:	33.761315		
Glong:	-118.106811		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	59
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011024

**C11  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011263**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707129
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.957
Locationde:	Not Reported		
Glat:	33.762523		
Glong:	-118.108375		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	57
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011263

**12  
South  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010233**

Districtnu:	1	Apinumber:	03707999
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758875		
Glong:	-118.101562		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010233

**D13  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011386**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03705601
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763012		
Glong:	-118.108934		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	73
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWF	Site id:	CAOG9A000011386

**E14  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010828**

Districtnu:	1	Apinumber:	03706973
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.760334		
Glong:	-118.106382		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000010828

**D15  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011518**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707133
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	13.987
Locationde:	Not Reported		
Glat:	33.763583		
Glong:	-118.109559		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000011518

**B16**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010172**

Districtnu:	1	Apinumber:	03707997
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758737		
Glong:	-118.102858		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010172

**E17**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010796**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707022
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.196
Locationde:	Not Reported		
Glat:	33.760188		
Glong:	-118.106534		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010796

**C18  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010978**

Districtnu:	1	Apinumber:	03707019
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	3.82
Locationde:	Not Reported		
Glat:	33.761099		
Glong:	-118.10778		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000010978

**C19  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011048**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707023
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	1.38
Locationde:	Not Reported		
Glat:	33.761455		
Glong:	-118.108203		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	50
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000011048

**D20  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011538**

Districtnu:	1	Apinumber:	03707128
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.473
Locationde:	Not Reported		
Glat:	33.763673		
Glong:	-118.109881		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	56
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011538

**F21  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010380**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707021
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	3.594
Locationde:	Not Reported		
Glat:	33.759225		
Glong:	-118.104857		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	48
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010380

**22**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010160**

Districtnu:	1	Apinumber:	03708484
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758689		
Glong:	-118.095972		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant Four	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000010160

**D23**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011324**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707024
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	13.07
Locationde:	Not Reported		
Glat:	33.762721		
Glong:	-118.109734		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	51
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011324

**G24**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010072**

Districtnu:	1	Apinumber:	03706954
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Asphalt Petro. Co. of Calif.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758304		
Glong:	-118.103327		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Rancho	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000010072

**D25**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011457**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707141
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.185
Locationde:	Not Reported		
Glat:	33.763338		
Glong:	-118.110246		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	69
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011457

**H26**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009998**

Districtnu:	1	Apinumber:	03707994
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75783		
Glong:	-118.100695		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	5N
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009998

**E27**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010481**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707017
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.759486		
Glong:	-118.106475		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	44
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010481

**F28**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010107**

Districtnu:	1	Apinumber:	03707140
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	4.226
Locationde:	Not Reported		
Glat:	33.758473		
Glong:	-118.104372		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	68
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWF	Site id:	CAOG9A000010107

**G29**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010050**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708000
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758169		
Glong:	-118.103507		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010050

**H30**  
South  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009978

Districtnu:	1	Apinumber:	03708485
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757707		
Glong:	-118.101806		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant Lw	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009978

**G31**  
SSW  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009987

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718812
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757744		
Glong:	-118.102671		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009987

**I32**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000012105

Districtnu:	1	Apinumber:	03700121
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.76652		
Glong:	-118.111718		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000012105

**J33**  
SW  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000011062

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707126
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.552
Locationde:	Not Reported		
Glat:	33.761598		
Glong:	-118.109605		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011062

**K34**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009942**

Districtnu:	1	Apinumber:	03707996
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75752		
Glong:	-118.098545		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009942

**L35**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010559**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707018
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.722
Locationde:	Not Reported		
Glat:	33.759684		
Glong:	-118.107514		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	45
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010559

**M36**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011438**

Districtnu:	1	Apinumber:	03707146
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.756
Locationde:	Not Reported		
Glat:	33.763226		
Glong:	-118.110939		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	75
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000011438

**G37**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009959**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707993
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757602		
Glong:	-118.102949		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000009959

**M38**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011445**

Districtnu:	1	Apinumber:	03707132
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.578
Locationde:	Not Reported		
Glat:	33.763267		
Glong:	-118.111001		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	60
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000011445

**J39**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011169**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707020
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Conoco Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	Not Reported
Section:	2		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.762073		
Glong:	-118.110311		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	47
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011169

**L40  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010610**

Districtnu:	1	Apinumber:	03707151
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	8.19
Section:	2		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.759845		
Glong:	-118.108117		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	81
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010610

**I41  
West  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011966**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708509
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.765691		
Glong:	-118.111937		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011966

**G42**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009938**

Districtnu:	1	Apinumber:	03718811
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.847
Locationde:	Not Reported		
Glat:	33.757489		
Glong:	-118.102959		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009938

**H43**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009887**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708486
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757127		
Glong:	-118.10085		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant Lw	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009887

**G44**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009985**

Districtnu:	1	Apinumber:	03706992
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.565
Locationde:	Not Reported		
Glat:	33.757734		
Glong:	-118.10437		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009985

**G45**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009926**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718819
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.7574		
Glong:	-118.103345		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWD	Site id:	CAOG9A000009926

**L46  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010487**

Districtnu:	1	Apinumber:	03706999
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.594
Locationde:	Not Reported		
Glat:	33.759501		
Glong:	-118.108122		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWD	Site id:	CAOG9A000010487

**N47  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010143**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706998
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	15.544
Locationde:	Not Reported		
Glat:	33.758602		
Glong:	-118.106795		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010143

**M48  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011508**

Districtnu:	1	Apinumber:	03707025
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763547		
Glong:	-118.111621		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	52
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011508

**N49  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010092**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707016
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	15.442
Locationde:	Not Reported		
Glat:	33.758421		
Glong:	-118.106533		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010092

**M50  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011495**

Districtnu:	1	Apinumber:	03707150
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763492		
Glong:	-118.111696		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	79
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011495

**O51  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010846**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706997
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.009
Locationde:	Not Reported		
Glat:	33.760437		
Glong:	-118.109492		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010846

**P52**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009819**

Districtnu:	1	Apinumber:	03718813
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.331
Locationde:	Not Reported		
Glat:	33.75683		
Glong:	-118.101747		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009819

**Q53**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009882**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718815
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.688
Locationde:	Not Reported		
Glat:	33.757111		
Glong:	-118.103522		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009882

**R54  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009882**

Districtnu:	1	Apinumber:	03706994
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	17.013
Locationde:	Not Reported		
Glat:	33.757717		
Glong:	-118.105518		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009982

**M55  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011362**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707127
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.727
Locationde:	Not Reported		
Glat:	33.762885		
Glong:	-118.111609		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011362

**K56**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009810**

Districtnu:	1	Apinumber:	03718805
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.863
Locationde:	Not Reported		
Glat:	33.756659		
Glong:	-118.09928		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000009810

**57**  
**NNE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000013902**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05907881
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Orange	Fieldname:	Any Field
Areaname:	Any Area		
Section:	36		
Township:	04S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.77734		
Glong:	-118.095545		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby Ranch (nct-1)	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000013902

**R58  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009946**

Districtnu:	1	Apinumber:	03707015
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.998
Locationde:	Not Reported		
Glat:	33.75753		
Glong:	-118.105257		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	42
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009946

**O59  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010551**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707148
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	3.971
Locationde:	Not Reported		
Glat:	33.759663		
Glong:	-118.10906		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	77
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010551

**L60  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010148**

Districtnu:	1	Apinumber:	03707136
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.3
Locationde:	Not Reported		
Glat:	33.758627		
Glong:	-118.107711		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	64
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010148

**P61  
South  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009788**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718810
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756576		
Glong:	-118.101627		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009788

**S62  
SSE  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009790**

Districtnu:	1	Apinumber:	03707995
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756596		
Glong:	-118.097368		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009790

**Q63  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009855**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706983
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.528
Locationde:	Not Reported		
Glat:	33.757		
Glong:	-118.104378		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009855

**T64**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011066**

Districtnu:	1	Apinumber:	03707001
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.2
Locationde:	Not Reported		
Glat:	33.761624		
Glong:	-118.111211		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011066

**U65**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009764**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718807
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756349		
Glong:	-118.099436		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009764

**N66  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010147**

Districtnu:	1	Apinumber:	03707002
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758613		
Glong:	-118.108024		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010147

**R67  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009884**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707009
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	12.065
Locationde:	Not Reported		
Glat:	33.757115		
Glong:	-118.105205		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009884

**Q68**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009789**

Districtnu:	1	Apinumber:	03708568
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	4.542
Locationde:	Not Reported		
Glat:	33.756592		
Glong:	-118.103389		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009789

**T69**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011088**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03720684
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.5
Locationde:	Not Reported		
Glat:	33.761711		
Glong:	-118.111516		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	82
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011088

**V70  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010378**

Districtnu:	1	Apinumber:	03707005
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.862
Locationde:	Not Reported		
Glat:	33.759218		
Glong:	-118.109264		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010378

**Q71  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009767**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718818
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756359		
Glong:	-118.103018		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009767

**Q72**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009811**

Districtnu:	1	Apinumber:	03707144
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.151
Locationde:	Not Reported		
Glat:	33.75668		
Glong:	-118.104373		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	80
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009811

**P73**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009750**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708572
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756229		
Glong:	-118.102807		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009750

**V74  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010286**

Districtnu:	1	Apinumber:	03706974
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.044
Locationde:	Not Reported		
Glat:	33.758958		
Glong:	-118.109184		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010286

**T75  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010933**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707013
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.558
Locationde:	Not Reported		
Glat:	33.760843		
Glong:	-118.111222		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010933

**R76  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009922**

Districtnu:	1	Apinumber:	03707000
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75734		
Glong:	-118.106676		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWD	Site id:	CAOG9A000009922

**O77  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010776**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707003
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.082
Locationde:	Not Reported		
Glat:	33.760095		
Glong:	-118.110724		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010776

**S78**  
South  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009712

Districtnu:	1	Apinumber:	03707991
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755872		
Glong:	-118.098272		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000009712

**W79**  
SSW  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009724

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708575
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	5.874
Locationde:	Not Reported		
Glat:	33.756004		
Glong:	-118.102702		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009724

**R80  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009794**

Districtnu:	1	Apinumber:	03706989
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.142
Locationde:	Not Reported		
Glat:	33.756622		
Glong:	-118.105313		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009794

**81  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009992**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706975
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757785		
Glong:	-118.107988		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009992

**Q82**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009753**

Districtnu:	1	Apinumber:	03706982
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756251		
Glong:	-118.104326		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009753

**X83**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012043**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708515
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.378
Locationde:	Not Reported		
Glat:	33.766156		
Glong:	-118.113896		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000012043

**U84**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009686**

Districtnu:	1	Apinumber:	03718809
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.145
Locationde:	Not Reported		
Glat:	33.755636		
Glong:	-118.100027		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000009686

**Y85**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011349**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706995
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.836
Locationde:	Not Reported		
Glat:	33.762806		
Glong:	-118.112939		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011349

**W86**  
South  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009701

Districtnu:	1	Apinumber:	03708569
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	4.82
Locationde:	Not Reported		
Glat:	33.755774		
Glong:	-118.102463		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009701

**U87**  
South  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009680

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718808
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	North Block	Elevation:	Not Reported
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.7556		
Glong:	-118.098924		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009680

**X88**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000011993

Districtnu:	1	Apinumber:	03708512
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	The Termo Company	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	North Block	Elevation:	14.481
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.765896		
Glong:	-118.114026		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011993

**W89**  
SSW  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009706

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708567
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75583		
Glong:	-118.103353		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009706

**X90**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011989**

Districtnu:	1	Apinumber:	03708507
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.415
Locationde:	Not Reported		
Glat:	33.765859		
Glong:	-118.11408		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011989

**Z91**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011603**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708519
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	14.048
Locationde:	Not Reported		
Glat:	33.763884		
Glong:	-118.113632		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	44
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011603

**X92  
West  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011984**

Districtnu:	1	Apinumber:	03708506
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	17.022
Locationde:	Not Reported		
Glat:	33.765816		
Glong:	-118.114123		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011984

**T93  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010902**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707134
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	12.178
Locationde:	Not Reported		
Glat:	33.760689		
Glong:	-118.111842		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	62
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000010902

**AA94**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009651**

Districtnu:	1	Apinumber:	03706396
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755374		
Glong:	-118.100319		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009651

**Z95**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011572**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708530
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763781		
Glong:	-118.113697		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011572

**AB96**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009710**

Districtnu:	1	Apinumber:	03707010
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755862		
Glong:	-118.104327		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009710

**X97**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011951**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708508
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.765601		
Glong:	-118.114218		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011951

**U98**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009641**

Districtnu:	1	Apinumber:	03707990
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	CalResources LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755318		
Glong:	-118.099259		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009641

**W99**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009677**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718803
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755595		
Glong:	-118.103333		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009677

**AC100**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009657**

Districtnu:	1	Apinumber:	05907017
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.19
Locationde:	Not Reported		
Glat:	33.755423		
Glong:	-118.097558		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Bryant	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000009657

**W101**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009683**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718814
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	Not Reported
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.755621		
Glong:	-118.103639		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009683

**AD102  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010863**

Districtnu:	1	Apinumber:	03706986
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	6.472
Section:	2		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.760505		
Glong:	-118.11208		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010863

**Y103  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011083**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706985
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	14.884
Locationde:	Not Reported		
Glat:	33.7617		
Glong:	-118.113023		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011083

**AE104**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011051**

Districtnu:	1	Apinumber:	03707147
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.996
Locationde:	Not Reported		
Glat:	33.761474		
Glong:	-118.112904		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	76
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011051

**AF105**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010419**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706987
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	14.12
Locationde:	Not Reported		
Glat:	33.759343		
Glong:	-118.111168		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010419

**AB106**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009709**

Districtnu:	1	Apinumber:	03706990
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.367
Locationde:	Not Reported		
Glat:	33.75585		
Glong:	-118.10532		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009709

**Y107**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011170**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707137
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.377
Locationde:	Not Reported		
Glat:	33.762084		
Glong:	-118.113332		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	65
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000011170

**AA108**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009594**

Districtnu:	1	Apinumber:	03718806
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.754995		
Glong:	-118.099264		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009594

**AD109**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010538**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707014
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.708
Locationde:	Not Reported		
Glat:	33.759635		
Glong:	-118.111587		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	41
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWD	Site id:	CAOG9A000010538

**AD110**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011008**

Districtnu:	1	Apinumber:	03707007
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.034
Locationde:	Not Reported		
Glat:	33.761236		
Glong:	-118.11288		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011008

**AG111**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009659**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904274
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.603
Locationde:	Not Reported		
Glat:	33.755448		
Glong:	-118.0958		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009659

**AB112**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009661**

Districtnu:	1	Apinumber:	03706981
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.668
Locationde:	Not Reported		
Glat:	33.755457		
Glong:	-118.104379		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009661

**AF113**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010185**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706978
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758787		
Glong:	-118.110819		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PWD	Site id:	CAOG9A000010185

**AD114  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010586**

Districtnu:	1	Apinumber:	03706977
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	2		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.359
Locationde:	Not Reported		
Glat:	33.759781		
Glong:	-118.111847		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000010586

**Y115  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011182**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707011
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	12.016
Locationde:	Not Reported		
Glat:	33.76215		
Glong:	-118.113653		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011182

**AD116**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010942**

Districtnu:	1	Apinumber:	03706979
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.405
Locationde:	Not Reported		
Glat:	33.760881		
Glong:	-118.112864		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000010942

**AH117**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009734**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707004
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.82
Locationde:	Not Reported		
Glat:	33.756116		
Glong:	-118.106812		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009734

**118  
West  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012406**

Districtnu:	1	Apinumber:	03708545
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.76856		
Glong:	-118.114951		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel-Alamitos	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000012406

**AI119  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010003**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707008
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757878		
Glong:	-118.109968		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010003

**W120  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009598**

Districtnu:	1	Apinumber:	03708566
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.119
Locationde:	Not Reported		
Glat:	33.755042		
Glong:	-118.103403		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009598

**AH121  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009714**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707012
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.862
Locationde:	Not Reported		
Glat:	33.755878		
Glong:	-118.106362		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009714

**AB122**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009667**

Districtnu:	1	Apinumber:	03707138
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.76
Locationde:	Not Reported		
Glat:	33.755499		
Glong:	-118.105333		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	66
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009667

**AJ123**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009572**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708573
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75475		
Glong:	-118.101539		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009572

**Y124  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011200**

Districtnu:	1	Apinumber:	03707149
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.559
Locationde:	Not Reported		
Glat:	33.762258		
Glong:	-118.113851		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	78
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AWF	Site id:	CAOG9A000011200

**AA125  
South  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009563**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708574
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.754678		
Glong:	-118.100231		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009563

**AI126  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009951**

Districtnu:	1	Apinumber:	03706988
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75756		
Glong:	-118.109679		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009951

**AE127  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011098**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707006
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	9.122
Locationde:	Not Reported		
Glat:	33.761728		
Glong:	-118.113648		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011098

**AK128**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000012119

Districtnu:	1	Apinumber:	03708511
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	13.653
Locationde:	Not Reported		
Glat:	33.766605		
Glong:	-118.115189		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	ADG	Site id:	CAOG9A000012119

**AK129**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000012108

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708510
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	North Block	Elevation:	15.599
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.76653		
Glong:	-118.115199		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000012108

**Y130  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011159**

Districtnu:	1	Apinumber:	03706980
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	9.018
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.76204		
Glong:	-118.113938		
Gissourcec:	gps		
Comments:	68809088.ssf		
Leasename:	Bixby A	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011159

**AC131  
SSE  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009581**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904658
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.071
Locationde:	Not Reported		
Glat:	33.754842		
Glong:	-118.096455		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009581

**Z132**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011420**

Districtnu:	1	Apinumber:	03708504
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.733
Locationde:	Not Reported		
Glat:	33.763167		
Glong:	-118.114518		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011420

**AH133**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009766**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707135
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756357		
Glong:	-118.108026		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009766

**AJ134**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009544**

Districtnu:	1	Apinumber:	03718802
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.754494		
Glong:	-118.101458		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009544

**AL135**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011730**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708533
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.764344		
Glong:	-118.115027		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011730

**AK136**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000012134

Districtnu:	1	Apinumber:	03708505
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.784
Locationde:	Not Reported		
Glat:	33.766683		
Glong:	-118.115422		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000012134

**AM137**  
WSW  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000011367

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708541
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	16.237
Locationde:	Not Reported		
Glat:	33.762909		
Glong:	-118.114523		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	52
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011367

**AM138**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011399**

Districtnu:	1	Apinumber:	03708517
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	11.631
Locationde:	Not Reported		
Glat:	33.763063		
Glong:	-118.114604		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	41
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011399

**AN139**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009628**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03707143
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Conoco Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755234		
Glong:	-118.105646		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	72
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000009628

**AC140**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009538**

Districtnu:	1	Apinumber:	05904263
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.197
Locationde:	Not Reported		
Glat:	33.754441		
Glong:	-118.098004		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009538

**AO141**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009532**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904255
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	14.337
Locationde:	Not Reported		
Glat:	33.754349		
Glong:	-118.098741		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009532

**AC142**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009549**

Districtnu:	1	Apinumber:	05904265
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	4.928
Locationde:	Not Reported		
Glat:	33.754534		
Glong:	-118.09705		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009549

**143**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009774**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706996
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756457		
Glong:	-118.108628		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009774

**AN144**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009599**

Districtnu:	1	Apinumber:	03706991
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.478
Locationde:	Not Reported		
Glat:	33.755054		
Glong:	-118.105325		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009599

**AM145**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011377**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708490
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	I
Operatorna:	The Termo Company	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	13.229
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.762982		
Glong:	-118.114723		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011377

**AK146**  
West  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000012122

Districtnu:	1	Apinumber:	03708543
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	North Block	Elevation:	10.03
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.766634		
Glong:	-118.115607		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000012122

**AO147**  
South  
1/2 - 1 Mile

OIL\_GAS      CAOG9A000009528

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904262
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.786
Locationde:	Not Reported		
Glat:	33.754196		
Glong:	-118.099013		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	10A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009528

**AG148**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009545**

Districtnu:	1	Apinumber:	05907005
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.101
Locationde:	Not Reported		
Glat:	33.754507		
Glong:	-118.096436		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	50
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009545

**AJ149**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009527**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708570
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.754088		
Glong:	-118.101075		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009527

**AG150**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009537**

Districtnu:	1	Apinumber:	05904653
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.167
Locationde:	Not Reported		
Glat:	33.754439		
Glong:	-118.095634		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009537

**AJ151**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009524**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718804
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	Not Reported
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.754001		
Glong:	-118.102376		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009524

**AP152  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010325**

Districtnu:	1	Apinumber:	03708521
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	10		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.759051		
Glong:	-118.112719		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010325

**AQ153  
West  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012322**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708547
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.767887		
Glong:	-118.116126		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel-Alamitos	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000012322

**AP154  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010278**

Districtnu:	1	Apinumber:	03708514
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	10		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758944		
Glong:	-118.112709		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010278

**AR155  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009529**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706984
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	0.708
Locationde:	Not Reported		
Glat:	33.754281		
Glong:	-118.104388		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bixby A	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009529

**AP156**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010191**

Districtnu:	1	Apinumber:	03708491
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	10		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758799		
Glong:	-118.112603		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010191

**AO157**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009519**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904253
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.75377		
Glong:	-118.099702		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009519

**AS158  
WNW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012745**

Districtnu:	1	Apinumber:	03708489
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.770227		
Glong:	-118.115849		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000012745

**AP159  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010477**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708522
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	10		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.759472		
Glong:	-118.113254		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	47
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010477

**AP160**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010604**

Districtnu:	1	Apinumber:	03708494
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.759836		
Glong:	-118.113564		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010604

**AO161**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009523**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904674
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	2.439
Locationde:	Not Reported		
Glat:	33.753861		
Glong:	-118.097718		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	44
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009523

**AT162**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009554**

Districtnu:	1	Apinumber:	05904673
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	12		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.216
Locationde:	Not Reported		
Glat:	33.754571		
Glong:	-118.09432		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009554

**AO163**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009522**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05921289
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	2.555
Locationde:	Not Reported		
Glat:	33.753825		
Glong:	-118.097808		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009522

**AU164**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010943**

Districtnu:	1	Apinumber:	03708520
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.760885		
Glong:	-118.114397		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	45
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010943

**AO165**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009520**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05921233
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC	Fieldname:	Seal Beach
Countyname:	Orange	Range:	12W
Areaname:	South Block	Elevation:	6.926
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753783		
Glong:	-118.097894		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	62
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009520

**AU166**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010959**

Districtnu:	1	Apinumber:	03708513
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	The Termo Company	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.761007		
Glong:	-118.11448		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010959

**AS167**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012634**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706955
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Atlantic Oil Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.769769		
Glong:	-118.116055		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000012634

**AV168**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009976**

Districtnu:	1	Apinumber:	03708493
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.757698		
Glong:	-118.111646		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009976

**AS169**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012948**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03706976
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Conoco Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.770984		
Glong:	-118.115784		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	3-3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000012948

**AM170**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011215**

Districtnu:	1	Apinumber:	03708536
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.762343		
Glong:	-118.115288		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011215

**AQ171**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000012303**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708546
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.767696		
Glong:	-118.116398		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel-Alamitos	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000012303

**AU172**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010955**

Districtnu:	1	Apinumber:	03708495
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.760965		
Glong:	-118.114581		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010955

**AU173**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010915**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708518
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.760753		
Glong:	-118.114448		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	42
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010915

**AU174**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010616**

Districtnu:	1	Apinumber:	03708501
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.759868		
Glong:	-118.11387		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010616

**AW175**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009511**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904272
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC	Fieldname:	Seal Beach
Countyname:	Orange	Range:	12W
Areaname:	South Block	Elevation:	5.254
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753534		
Glong:	-118.100192		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009511

**AU176**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010781**

Districtnu:	1	Apinumber:	03708534
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.760113		
Glong:	-118.114092		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010781

**AV177**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009875**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708535
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.757089		
Glong:	-118.111105		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009875

**AM178**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011172**

Districtnu:	1	Apinumber:	03708496
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.762087		
Glong:	-118.115312		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011172

**AP179**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010036**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708526
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.758094		
Glong:	-118.11234		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010036

**AV180  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009822**

Districtnu:	1	Apinumber:	03708544
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756862		
Glong:	-118.110887		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009822

**AP181  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010353**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708497
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	10		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.759128		
Glong:	-118.113385		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010353

**AT182**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009525**

Districtnu:	1	Apinumber:	05904659
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC	Fieldname:	Seal Beach
Countyname:	Orange	Range:	12W
Areaname:	North Block	Elevation:	3.91
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.754005		
Glong:	-118.09534		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009525

**AX183**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009514**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03700340
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	7.876
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.75356		
Glong:	-118.10213		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009514

**AY184**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009518**

Districtnu:	1	Apinumber:	05904264
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC	Fieldname:	Seal Beach
Countyname:	Orange	Range:	12W
Areaname:	North Block	Elevation:	6.541
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753715		
Glong:	-118.096638		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009518

**AZ185**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009805**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708500
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.756635		
Glong:	-118.11063		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009805

**AW186**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009471**

Districtnu:	1	Apinumber:	05904254
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	8.416
Locationde:	Not Reported		
Glat:	33.753437		
Glong:	-118.100784		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	3A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009471

**AL187**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011537**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708516
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	15.324
Locationde:	Not Reported		
Glat:	33.763664		
Glong:	-118.116072		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000011537

**AW188**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009445**

Districtnu:	1	Apinumber:	05907016
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.753386		
Glong:	-118.100287		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	PDH	Site id:	CAOG9A000009445

**AX189**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009492**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708571
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Signal Hill Petroleum, Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.753476		
Glong:	-118.102239		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bryant	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009492

**BA190**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011485**

Districtnu:	1	Apinumber:	03708531
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763441		
Glong:	-118.11607		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011485

**BA191**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011555**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03720898
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.763721		
Glong:	-118.116176		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	56
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011555

**BA192**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011528**

Districtnu:	1	Apinumber:	03708524
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	The Termo Company		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	12.689
Locationde:	Not Reported		
Glat:	33.763637		
Glong:	-118.116163		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	San Gabriel	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011528

**AY193**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009509**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904256
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	7.01
Locationde:	Not Reported		
Glat:	33.7535		
Glong:	-118.096938		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009509

**AU194**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010785**

Districtnu:	1	Apinumber:	03708492
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.76014		
Glong:	-118.114455		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010785

**AU195**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010994**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708502
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.761166		
Glong:	-118.115122		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010994

**BB196**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011194**

Districtnu:	1	Apinumber:	03708503
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.762241		
Glong:	-118.115701		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011194

**AW197**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009404**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904252
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	South Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	10.482
Locationde:	Not Reported		
Glat:	33.75324		
Glong:	-118.100718		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009404

**AY198**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009512**

Districtnu:	1	Apinumber:	05904667
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.896
Locationde:	Not Reported		
Glat:	33.75355		
Glong:	-118.096341		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009512

**AZ199**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009721**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708539
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.755975		
Glong:	-118.110052		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009721

**AR200  
SSW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009521**

Districtnu:	1	Apinumber:	03706993
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	LCW Oil Operations, LLC		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.753796		
Glong:	-118.105015		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bixby A	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009521

**201  
SW  
1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009673**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708532
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.755545		
Glong:	-118.109637		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000009673

**AT202**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009516**

Districtnu:	1	Apinumber:	05904259
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC	Fieldname:	Seal Beach
Countyname:	Orange	Range:	12W
Areaname:	North Block	Elevation:	1.649
Section:	12		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753653		
Glong:	-118.095087		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009516

**AU203**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000010989**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03708498
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	Alamitos	Elevation:	Not Reported
Section:	3		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.761155		
Glong:	-118.115529		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000010989

**AX204**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009388**

Districtnu:	1	Apinumber:	03718816
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	10.413
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753161		
Glong:	-118.103193		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009388

**AY205**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009437**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	05904266
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Hellman Properties LLC		
Countyname:	Orange	Fieldname:	Seal Beach
Areaname:	North Block		
Section:	11		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	6.005
Locationde:	Not Reported		
Glat:	33.753374		
Glong:	-118.095452		
Gissourcec:	gps		
Comments:	68809158.ssf		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009437

**BB206**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000011167**

Districtnu:	1	Apinumber:	03708523
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.		
Countyname:	Los Angeles	Fieldname:	Seal Beach
Areaname:	Alamitos		
Section:	3		
Township:	05S	Range:	12W
Basemeridi:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Glat:	33.762066		
Glong:	-118.116127		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	San Gabriel	Wellnumber:	48
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	POG	Site id:	CAOG9A000011167

**AX207**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      CAOG9A000009382**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Districtnu:	1	Apinumber:	03718817
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	N	Wellstatus:	A
Operatorna:	Signal Hill Petroleum, Inc.	Fieldname:	Seal Beach
Countyname:	Los Angeles	Range:	12W
Areaname:	South Block	Elevation:	8.605
Section:	11		
Township:	05S		
Basemeridi:	SB		
Locationde:	Not Reported		
Glat:	33.753085		
Glong:	-118.103334		
Gissourcec:	gps		
Comments:	68809148.ssf		
Leasename:	Bryant	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	30-DEC-99
Welldeptha:	Not Reported	Redrillfoo:	Not Reported
Abandonedd:	//	Completion:	//
Gissymbol:	AOG	Site id:	CAOG9A000009382

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90803	49	0

Federal EPA Radon Zone for LOS ANGELES County: 2

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

---

### Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

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

Source: United States Geologic Survey

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

### 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 2003 & 2011 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, 2005 and 2010 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.

## OTHER STATE DATABASE INFORMATION

### 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.

### 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.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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**APPENDIX C**  
**EDR ENVIRONMENTAL LIENSEARCH™ REPORT**

**AES Alamos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.7  
May 13, 2015

## EDR Environmental Lien and AUL Search

## EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

690 North Studebaker Road  
AES Alamos Plant  
Long Beach, CA 90803

#### RESEARCH SOURCE

##### Source 1:

LA Recorder  
Los Angeles, CA

### PROPERTY INFORMATION

#### Deed 1:

Type of Deed: deed  
Title is vested in: AES Alamos Energy LLC  
Title received from: Loynes Beach Partners LLC  
Deed Dated: 12/23/2014  
Deed Recorded: 12/31/2014  
Book: NA  
Page: na  
Volume: na  
Instrument: na  
Docket: NA  
Land Record Comments:  
Miscellaneous Comments:

**Legal Description:** See Exhibit

**Legal Current Owner:** AES Alamos Energy LLC

**Parcel # / Property Identifier:** 7237-019-005

**Comments:** See Exhibit

### ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

### OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found  Not Found

## **Deed Exhibit 1**

This page is part of your document - DO NOT DISCARD



20141423855



Pages:  
0013

Recorded/Filed in Official Records  
Recorder's Office, Los Angeles County,  
California

12/31/14 AT 08:00AM

FEES:	55.00
TAXES:	NFPR
OTHER:	0.00
PAID:	NFPR



LEADSHEET



201412310150013

00010013097



006572067

SEQ:  
05

DAR - Title Company (Hard Copy)



THIS FORM IS NOT TO BE DUPLICATED

R06

FIRST AMERICAN TITLE INSURANCE COMPANY

Order No. 704999-23  
Escrow No.  
Loan No.

WHEN RECORDED, MAIL TO:

AES Alamos Energy, LLC  
690 North Studebaker Road  
Long Beach, CA 90803  
Attention: Eric Pendergraft



DOCUMENTARY TRANSFER TAX: \$ NOT for Public Record.

Space Above For Recorder's Use

- Computed on the consideration or value of property conveyed; OR
- Computed on the consideration or value less liens or encumbrances remaining at time of sale.

*Kathleen A. Kelly - Attorney at Law*  
Signature of Declarant or Agent determining tax - Firm Name

### GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **LOYNES BEACH PARTNERS, LLC**, a California limited liability company ("**Grantor**"),

hereby GRANT(S) to **AES ALAMITOS ENERGY, LLC**, a Delaware limited liability company ("**Grantee**"),

the real property in the City of Long Beach, County of Los Angeles, State of California, described as:

See Exhibit "A" attached hereto and incorporated herein by this reference

Dated: December 23, 2014

LOYNES BEACH PARTNERS, LLC, a California limited liability company

By: Seasmoke Partners-Studebaker, LLC, a California limited liability company, Its Manager

*[Signature]*  
Randall W. Blanchard,  
Manager

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

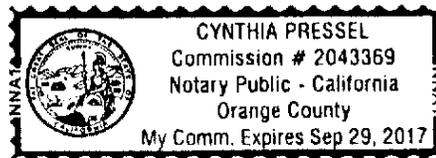
STATE OF CALIFORNIA )  
COUNTY OF ORANGE )

On December 23, 2014, before me, Cynthia, a notary public, personally appeared **RANDALL W. BLANCHARD**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

*Cynthia Pressel*  
Signature



MAIL TAX STATEMENTS TO:  
SAME AS ABOVE

6

SB

**EXHIBIT "A"**  
**TOTAL PROPERTY**  
**LEGAL DESCRIPTION**

17

**EXHIBIT "A"**  
**"PROPERTY"**  
**LEGAL DESCRIPTION**

ALL OF PARCEL 2 OF LOT LINE ADJUSTMENT LLA 9704-09, RECORDED DECEMBER 12, 1997 AS INSTRUMENT NO. 97-1958950, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA, ALSO DESCRIBED AS FOLLOWS:

THAT PORTION OF THE EAST ONE-HALF OF SECTION 2, TOWNSHIP 5 SOUTH, RANGE 12 WEST, IN THE RANCHO LOS ALAMITOS, AS SHOWN ON PARTITION MAP RECORDED IN BOOK 700, PAGE 141 OF DEEDS, IN THE OFFICE OF THE LOS ANGELES COUNTY RECORDER, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID EAST ONE-HALF;

THENCE SOUTH 89° 49' 51" EAST ALONG THE NORTHERLY LINE OF SAID SECTION 2, A DISTANCE OF 246.00 FEET TO A LINE PARALLEL WITH AND DISTANT 246.00 FEET EASTERLY OF THE WESTERLY LINE OF SAID EAST ONE-HALF OF SECTION 2;

THENCE SOUTH 00° 10' 03" WEST ALONG SAID PARALLEL LINE, A DISTANCE OF 2614.95 FEET, BEING THE MOST NORTHERLY CORNER OF THE PARCEL OF LAND CONVEYED TO BIXBY RANCH BY DEED RECORDED MAY 22, 1963 AS INSTRUMENT NO. 4371, OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIFORNIA. ALSO BEING A POINT ON THE EASTERLY LINE OF STUDEBAKER ROAD AS DESCRIBED IN GRANT OF EASEMENT RECORDED MAY 19, 1965 AS INSTRUMENT NO. 3602, OFFICIAL RECORDS OF LOS ANGELES COUNTY, CALIFORNIA, BEING THE TRUE POINT OF BEGINNING.

THENCE SOUTHWESTERLY ALONG SAID EASTERLY LINE AND ALONG THE WESTERLY LINE OF SAID PARCEL CONVEYED TO BIXBY RANCH, ON A CURVE CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 2050.00 FEET, THROUGH AN ANGLE OF 11° 30' 36", AN ARC LENGTH OF 411.82 FEET, TO THE SOUTHWEST CORNER OF SAID PARCEL CONVEYED TO BIXBY RANCH;

THENCE SOUTH 49° 00' 29" EAST ALONG THE SOUTHERLY LINE OF SAID PARCEL CONVEYED TO BIXBY RANCH, A DISTANCE OF 54.48 FEET, TO A LINE PARALLEL WITH AND 246.00 FEET EASTERLY OF SAID WESTERLY LINE OF THE EAST ONE-HALF OF SECTION 2, ALSO BEING THE SOUTHEAST CORNER OF SAID PARCEL CONVEYED TO BIXBY RANCH;

THENCE SOUTH 00° 10' 03" WEST ALONG SAID PARALLEL LINE, A DISTANCE OF 12.30 FEET;

THENCE SOUTH 89° 45' 12" EAST, A DISTANCE OF 862.40 FEET;

THENCE NORTH 89° 44' 33" EAST, A DISTANCE OF 219.36 FEET;

THENCE NORTH 00° 23' 26" WEST, A DISTANCE OF 283.83 FEET;

THENCE NORTH 06° 05' 26" EAST, A DISTANCE OF 57.86 FEET;

THENCE NORTH 89° 21' 45" WEST, A DISTANCE OF 160.46 FEET;

THENCE NORTH 00° 34' 04" EAST, A DISTANCE OF 182.33 FEET;

THENCE NORTH 44° 37' 31" EAST, A DISTANCE OF 37.01 FEET;

THENCE NORTH 00° 19' 12" WEST, A DISTANCE OF 200.42 FEET;

THENCE NORTH 89° 51' 14" WEST, A DISTANCE OF 300.22 FEET;

THENCE NORTH 00° 08' 46" EAST, A DISTANCE OF 20.92 FEET;

THENCE NORTH 89° 32' 08" WEST, A DISTANCE OF 649.78 FEET TO SAID LINE PARALLEL WITH AND 246.00 FEET EASTERLY OF THE WESTERLY LINE THE EAST ONE-HALF OF SECTION 2;

THENCE SOUTH 00° 10' 03" WEST ALONG SAID LINE, A DISTANCE OF 319.50 FEET TO THE POINT OF BEGINNING.

EXCEPT THEREFROM ALL "SOUTHERN CALIFORNIA EDISON OPERATIONS IMPROVEMENTS" AS DEFINED AND SET FORTH IN THE GRANT DEED EXECUTED BY SOUTHERN CALIFORNIA EDISON COMPANY, A CALIFORNIA CORPORATION AS GRANTOR AND AES ALAMITOS DEVELOPMENT, INC., A DELAWARE CORPORATION AS GRANTEE, RECORDED MARCH 15, 2001 AS INSTRUMENT NO. 01-424640, OF OFFICIAL RECORDS.

EXCEPTING THEREFROM ALL OIL, GAS, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND, TOGETHER WITH THE RIGHT TO USE THAT PORTION ONLY OF SAID LAND WHICH UNDERLIES A PLANE PARALLEL TO SAID 500 FEET BELOW THE PRESENT SURFACE OF SAID LAND, FOR THE PURPOSE OF PROSPECTING FOR, DEVELOPING AND/OR EXTRACTING SAID OIL, GAS, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES FROM SAID LAND BY MEANS OF WELLS DRILLED INTO SAID SUB-SURFACE OF SAID LAND FROM DRILL SITES LOCATED ON OTHER LAND, IT BEING EXPRESSLY UNDERSTOOD AND AGREED THAT SAID SELLERS, THEIR HEIRS, SUCCESSORS AND ASSIGNS, SHALL HAVE NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, OR TO USE SAID LAND OR ANY PORTION THEREOF, TO SAID DEPTH OF 500 FEET, FOR ANY PURPOSE WHATSOEVER, AS SET FORTH IN THE DEED FROM ERNEST A. BRYANT, JR., AND ALLEN L. CHICKERING, AS TRUSTEES UNDER THE

6

LAST WILL AND TESTAMENT OF SUSANNA BIXBY BRYANT, ALSO KNOWN AS SUSANNA P. BRYANT, DECEASED, RECORDED JULY 27, 1953 IN BOOK 42302, PAGE 73, AS INSTRUMENT NO. 889, OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM ALL OIL, GAS, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND, WITHOUT, HOWEVER, THE RIGHT TO USE THE SURFACE THEREOF, AS EXCEPTED AND RESERVED IN THAT CERTAIN DEED TO EDISON SECURITIES COMPANY, A CORPORATION, DATED SEPTEMBER 02, 1953 AND RECORDED SEPTEMBER 15, 1953 IN BOOK 42694, PAGE 232, AS INSTRUMENT NO. 2298, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

ALSO EXCEPTING THEREFROM ALL OIL, GAS, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES IN AND UNDER OR WHICH MAY BE PRODUCED FROM SAID LAND, TOGETHER WITH THE RIGHT TO USE THAT PORTION ONLY OF SAID LAND WHICH UNDERLIES A PLANE PARALLEL TO AND FIVE HUNDRED (500) FEET BELOW THE PRESENT SURFACE OF SAID LAND, FOR THE PURPOSE OF PROSPECTING FOR, DEVELOPING AND/OR EXTRACTING SAID OIL, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES FROM SAID LAND BY MEANS OF WELLS DRILLED INTO SAID SUBSURFACE OF SAID LAND FROM DRILL SITES LOCATED ON OTHER LAND, WITHOUT, HOWEVER, THE RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, OR TO USE SAID LAND OR ANY PORTION THEREOF TO SAID DEPTH OF FIVE HUNDRED (500) FEET FOR ANY PURPOSE WHATSOEVER, AS PROVIDED IN DEED RECORDED MAY 22, 1963 AS INSTRUMENT NO. 4370, OFFICIAL RECORDS.

APN(S): 7237-019-005

CONTAINING 17.82 ACRES, MORE OR LESS

ALSO AS SHOWN ON EXHIBIT "A-1" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

SUBJECT TO COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS-OF-WAY OF RECORD, IF ANY.

GRANTOR HEREBY RESERVES FROM THE ABOVE DESCRIBED REAL PROPERTY THE FOLLOWING TWO (2) EASEMENTS: (i) A NON-EXCLUSIVE EASEMENT FOR ACCESS, MAINTENANCE, INGRESS AND EGRESS OVER THAT CERTAIN PORTION OF THE PROPERTY DEPICTED ON EXHIBIT "B" ATTACHED HERETO AND (ii) A NON EXCLUSIVE DRAINAGE EASEMENT OVER THAT PORTION OF THE PROPERTY DESCRIBED ON EXHIBIT "C" ATTACHED HERETO.

PARCEL 2 OF LOT LINE ADJUSTMENT LLA 9704-09, RECORDED DECEMBER 12, 1997 AS INSTRUMENT NO. 97-1958950, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA.

POC  
NW COR.  
E 1/2 SEC. 2

S89°49'51"E  
246.00'

LOMEX DRIVE

STUDEBAKER ROAD

S00°10'03"W 2614.95'

319.50'  
S00°10'03"W

$\Delta = 11^{\circ}30'36"$   
 $R = 2050.00'$   $L = 411.81'$

N78°19'21"W (R)

N89°32'08"W

649.78'

L1  
N89°51'14"W

300.22'

PARCEL 2  
LLA 9704-09  
INST. NO. 97-1958950  
APN: 7237-019-005  
±17.82 ACRES  
±776,264 S.F.

PARCEL 1  
LLA 9704-09  
INST. NO. 97-1958950  
APN: 7237-019-808

NO.	BEARING	DISTANCE
L1	N00°08'46"E	20.92'
L2	N44°37'31"E	37.01'
L3	N06°05'26"E	57.86'
L4	S00°10'03"W	12.30'
L5	S49°00'29"E	54.48'

S89°45'12"E

PARCEL 1  
LLA 9704-09

INST. NO. 97-1958950

APN: 7237-019-808

862.40'

N89°44'33"E  
219.36'

N00°23'26"W 283.83'

N00°34'04"E

182.33'

N00°19'12"W

200.42'

N89°21'45"W

160.46'



SCALE: 1"=150'

**PROACTIVE**  
ENGINEERING CONSULTANTS  
WWW.PROACTIVEENGINEERING.NET  
200 S. MAIN ST., SUITE 500 CORONADA CA 92882  
951-280-8300

EXHIBIT "A-1"  
"TOTAL PROPERTY"  
PLAT FOR LEGAL DESCRIPTION

Z:\06:198.000 LONG BEACH\SURVE\DRAWINGS\PSA\_LEGAL\_EX-A-1.DWG

DATE: 12/18/14

J.N. 06.198.000

SHEET 1 OF 1

8

**EXHIBIT "B"**  
**NON-EXCLUSIVE EASEMENT FOR ACCESS, MAINTENANCE,**  
**INGRESS AND EGRESS**

9

**EXHIBIT "B"**  
**PARCEL 'A'**  
**LEGAL DESCRIPTION**

THAT PORTION OF PARCEL 2 OF LOT LINE ADJUSTMENT LLA 9704-09, RECORDED DECEMBER 12, 1997 AS INSTRUMENT NO. 97-1958950, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

**PARCEL 'A'**

**BEGINNING** AT A POINT ON THE NORTHERLY LINE OF SAID PARCEL 2, SAID POINT BEING DISTANT EASTERLY 367.18 FEET, AS MEASURED ALONG SAID NORTHERLY LINE, FROM THE NORTHWEST CORNER THEREOF;

**THENCE** LEAVING SAID NORTHERLY LINE, SOUTH 00°09'12" WEST A DISTANCE OF 775.06 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID PARCEL 2, SAID POINT BEING DISTANT EASTERLY 367.37 FEET, AS MEASURED ALONG SAID SOUTHERLY LINE, FROM THE WESTERLY TERMINUS OF THE COURSE SHOWN AS " NORTH 89°45'12" WEST, 862.40' ", ON SAID LOT LINE ADJUSTMENT 9704-09;

**THENCE** ALONG SAID SOUTHERLY LINE, NORTH 89°45'12" WEST A DISTANCE OF 367.37 FEET;

**THENCE** CONTINUING ALONG SAID SOUTHERLY LINE NORTH 00°10'03" EAST, A DISTANCE OF 12.30 FEET;

**THENCE** NORTH 49°00'29" WEST A DISTANCE OF 54.48 FEET, TO A POINT ON THE EASTERLY RIGHT OF WAY OF STUDEBAKER ROAD, 100 FEET WIDE, SAID POINT ALSO BEING THE BEGINNING OF A NON-TANGANT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 2050.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 78°19'21" EAST;

**THENCE** NORTHERLY ALONG SAID EASTERLY RIGHT OF WAY AND SAID CURVE THROUGH A CENTRAL ANGLE OF 11°30'36", AN ARC DISTANCE OF 411.81 FEET;

**THENCE** NORTH 00°10'03" EAST A DISTANCE OF 319.50 FEET TO THE NORTHWEST CORNER OF SAID PARCEL 2;

**THENCE** ALONG THE NORTHERLY LINE OF SAID PARCEL 2, SOUTH 89°32'08" EAST A DISTANCE OF 367.18 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 6.69 ACRES, MORE OR LESS.

ALSO AS SHOWN ON EXHIBIT "B-1" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.



U

**EXHIBIT "C"**  
**NON-EXCLUSIVE EASEMENT FOR DRAINAGE**

12

**EXHIBIT "C"**  
**DRAINAGE EASEMENT**  
**LEGAL DESCRIPTION**

A PORTION OF PARCEL 2 OF LOT LINE ADJUSTMENT LLA 9704-09, RECORDED DECEMBER 12, 1997 AS INSTRUMENT NO. 97-1958950, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

**BEGINNING** AT A POINT ON THE SOUTHERLY LINE OF SAID PARCEL 2, SAID POINT BEING DISTANT EASTERLY 367.37 FEET, AS MEASURED ALONG SAID SOUTHERLY LINE, FROM THE WESTERLY TERMINUS OF THE COURSE SHOWN AS " NORTH 89°45'12" WEST, 862.40' ", ON SAID LOT LINE ADJUSTMENT 9704-09;

**THENCE** LEAVING SAID SOUTHERLY LINE, NORTH 00°09'12" EAST A DISTANCE OF 60.00 FEET;

**THENCE** SOUTH 89°45'12" EAST A DISTANCE OF 30.00 FEET;

**THENCE** SOUTH 00°09'12" WEST A DISTANCE OF 60.00 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID PARCEL 2;

**THENCE** NORTH 89°45'12" WEST A DISTANCE OF 30.00 FEET TO THE **POINT OF BEGINNING.**

CONTAINING 0.04 ACRES, OR 1,800 SQUARE FEET, MORE OR LESS.

ALSO AS SHOWN ON EXHIBIT "C-1" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

SUBJECT TO COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS-OF-WAY OF RECORD, IF ANY.

PREPARED BY: PROACTIVE ENGINEERING CONSULTANTS  
UNDER THE DIRECTION OF:

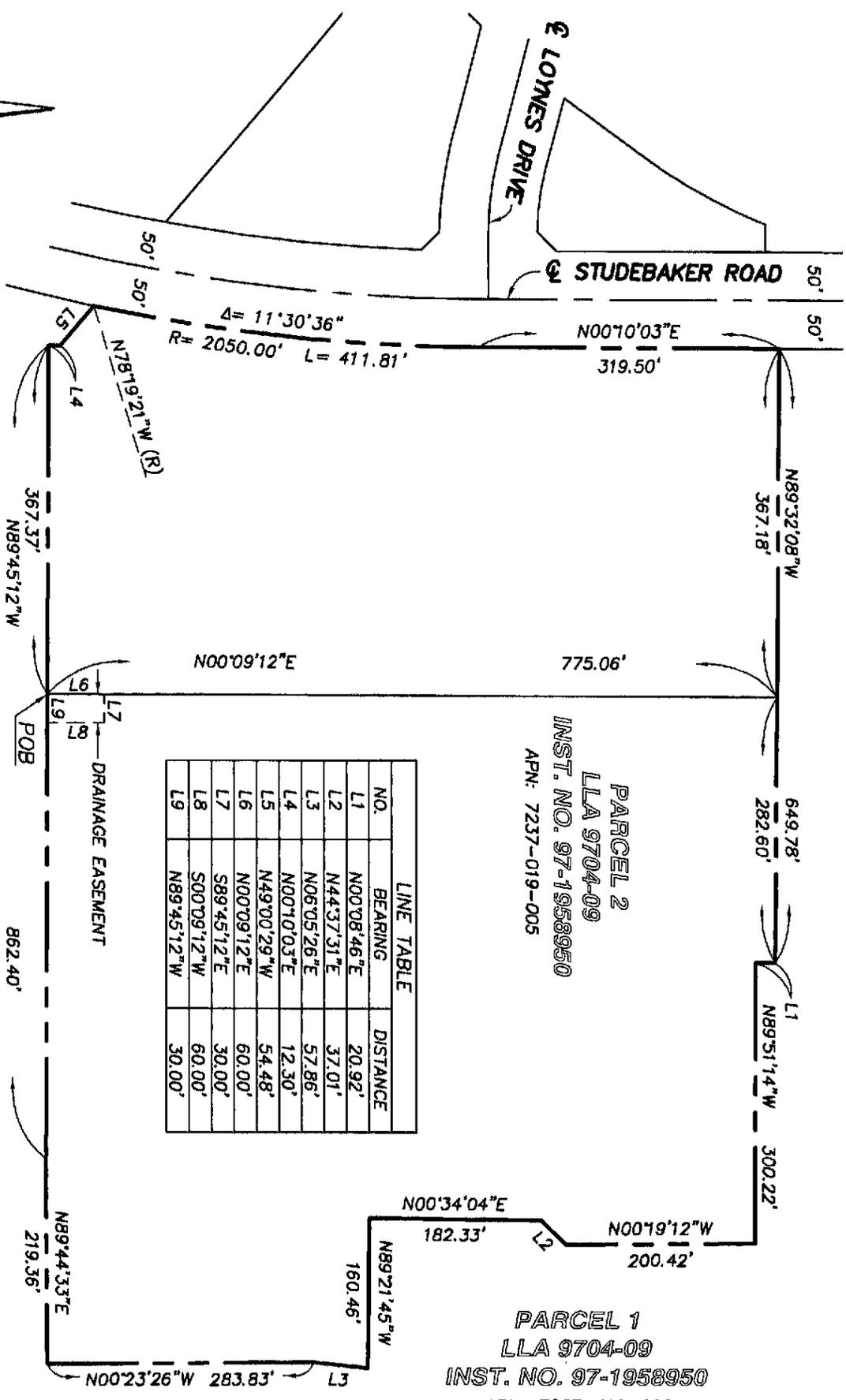


*Charles J. Moore*  
\_\_\_\_\_  
CHARLES J. MOORE  
REGISTRATION EXPIRES 9/30/16  
  
DECEMBER 23, 2014  
J.N. 06.198.000

13

PORTION OF PARCEL 2 OF LOT LINE ADJUSTMENT LLA 9704-09, RECORDED DECEMBER 12, 1997 AS INSTRUMENT NO. 97-1958950, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, STATE OF CALIFORNIA.

SCALE: 1" = 150'



NO.	BEARING	DISTANCE
L1	N00°08'46"E	20.92'
L2	N44°37'31"E	37.01'
L3	N06°05'26"E	57.86'
L4	N00°10'03"E	12.30'
L5	N49°00'29"W	54.48'
L6	N00°09'12"E	60.00'
L7	S89°45'12"E	30.00'
L8	S00°09'12"W	60.00'
L9	N89°45'12"W	30.00'

PARCEL 2  
 LLA 9704-09  
 INST. NO. 97-1958950  
 APN: 7237-019-005

PARCEL 1  
 LLA 9704-09  
 INST. NO. 97-1958950  
 APN: 7237-019-808

PARCEL 1 LLA 9704-09 INST. NO. 97-1958950 APN: 7237-019-808  
 PARCEL 2 LLA 9704-09 INST. NO. 97-1958950 APN: 7237-019-005

**PROACTIVE**  
**ENGINEERING CONSULTANTS**  
 WWW.PROACTIVEENGINEERING.NET  
 200 S. MAIN ST., SUITE 400, CORONADO, CA 92082  
 951.280.3300

**EXHIBIT "C-1"**  
 PLAT FOR DRAINAGE EASEMENT

Z:\06198.000 LONG BEACH\SURVEY\DRAWINGS\LB - GRANT DEED\_EX-C-1.DWG DATE: 12/23/14 J.N. 06.198.000 SHEET 1 OF 1

**APPENDIX D**  
**EDR PROPERTY TAX MAP REPORT**

**AES Alamos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.6  
May 11, 2015

# The EDR Property Tax Map Report

## EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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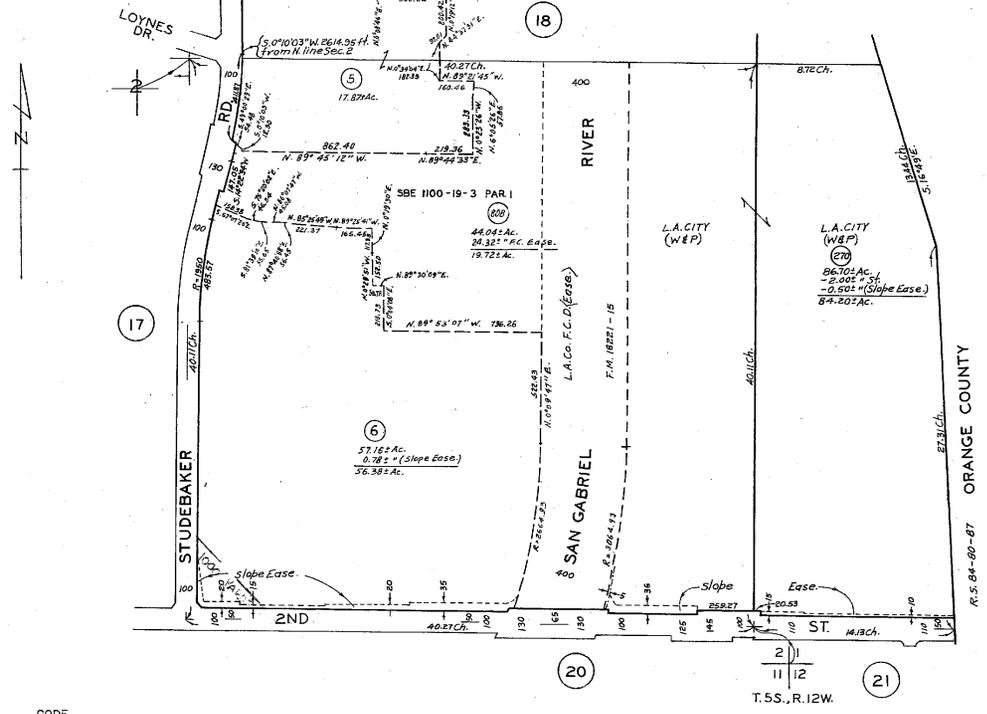
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7237 19  
SCALE 1" = 400'

2004

781215  
730325  
8806101006001-21  
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2002053007005001-30  
2003061606008001-30  
2004031707006001-30



CODE  
5511

MAPS NOS. 1 AND 2 OF PORTION OF RANCHO  
LOS ALAMITOS D.M. 700-138-141

FOR PREV. ASSMT SEE:  
7239 - 27  
7237 - 18

MAR 17 2004

ASSESSOR'S MAP  
COUNTY OF LOS ANGELES, CALIF.

**APPENDIX E**  
**CERTIFIED SANBORN<sup>®</sup> MAP REPORT**



**AES Alamitos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.3  
May 11, 2015

## Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

5/11/15

**Site Name:**

AES Alamitos Plant  
690 North Studebaker Road  
Long Beach, CA 90803

**Client Name:**

Env. Management Strategies  
16510 Aston Street  
Irvine, CA 92606-0000



EDR Inquiry # 4291472.3

Contact: Ashley Flores

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

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

## Certified Sanborn Results:

**Site Name:** AES Alamitos Plant  
**Address:** 690 North Studebaker Road  
**City, State, Zip:** Long Beach, CA 90803  
**Cross Street:**  
**P.O. #** EMS514  
**Project:** AES Alamitos Plant  
**Certification #** DB10-453D-B344



Sanborn® Library search results  
Certification # DB10-453D-B344

## UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

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

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

*The Sanborn Library LLC Since 1866™*

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**APPENDIX F**  
**EDR HISTORICAL TOPOGRAPHIC MAP REPORT**



**AES Alamos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.4  
May 11, 2015

# EDR Historical Topographic Map Report



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

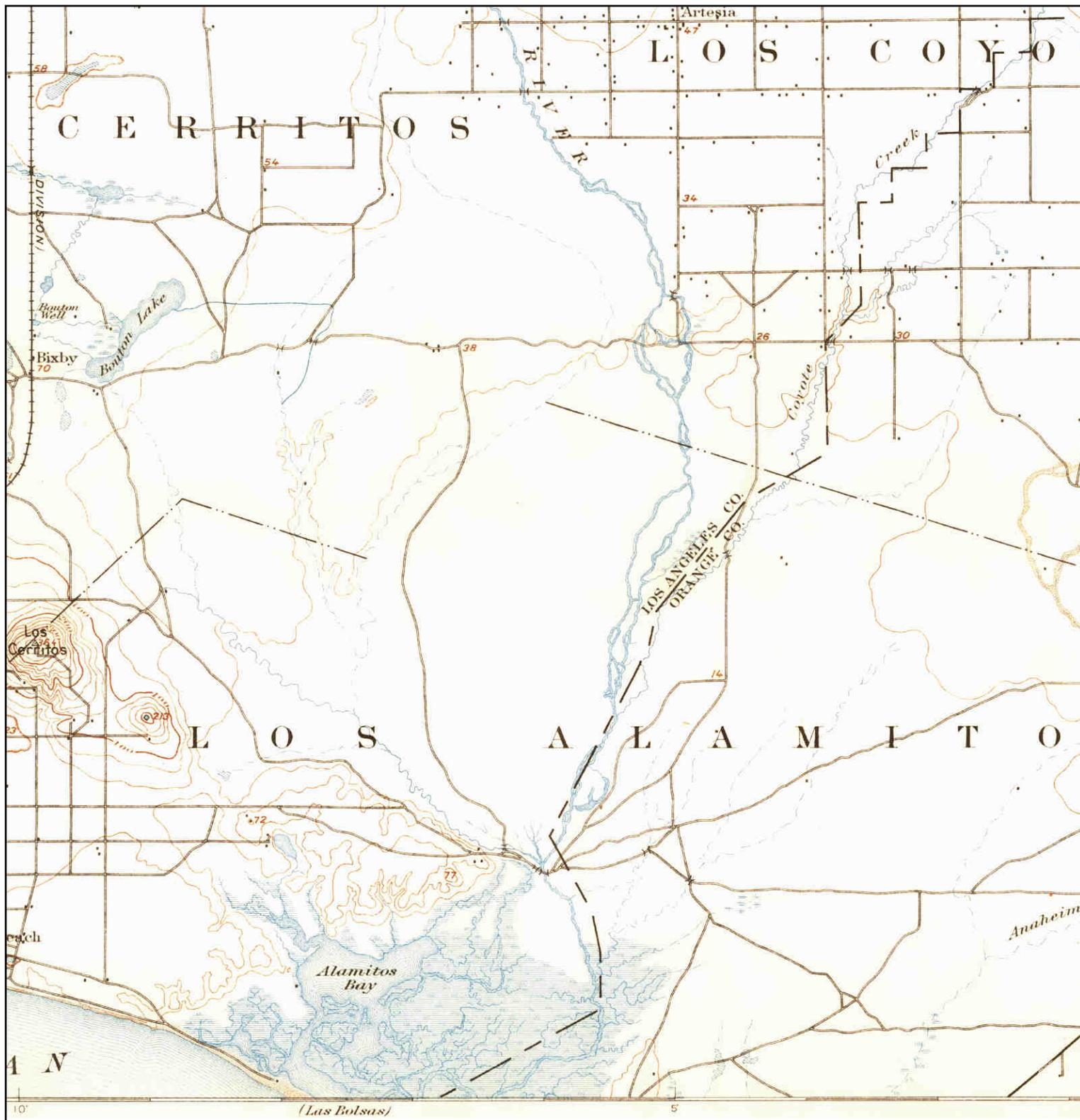
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# Historical Topographic Map



	<b>TARGET QUAD</b> NAME: DOWNEY MAP YEAR: 1896	SITE NAME: AES Alamitos Plant ADDRESS: 690 North Studebaker Road Long Beach, CA 90803 LAT/LONG: 33.7673 / -118.1	CLIENT: Env. Management Strategies CONTACT: Ashley Flores INQUIRY#: 4291472.4 RESEARCH DATE: 05/11/2015
	SERIES: 15 SCALE: 1:62500		

# Historical Topographic Map



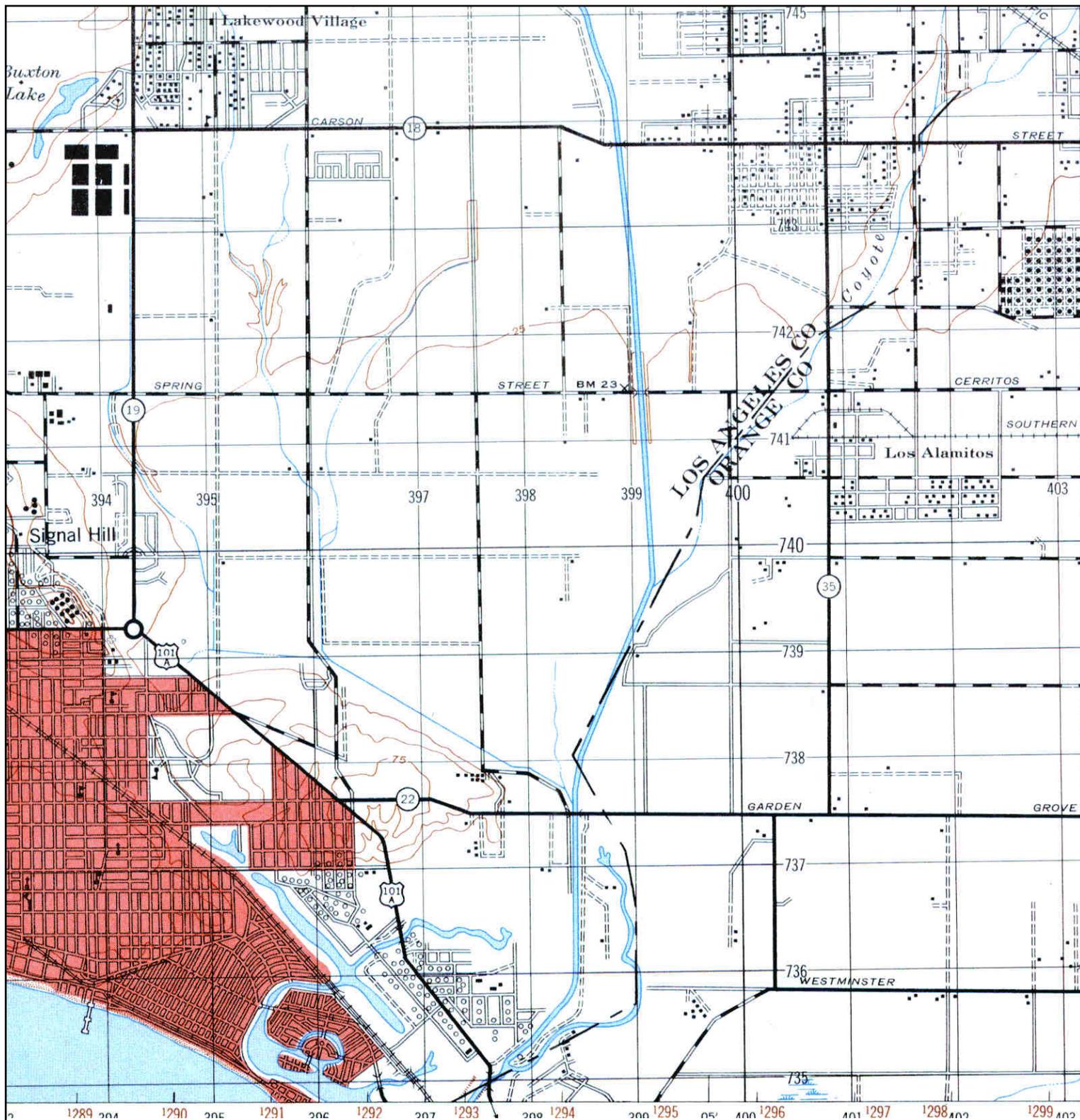
	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	<b>NAME:</b> SOUTHERN CA SHEET 1	<b>ADDRESS:</b> 690 North Studebaker Road	<b>CONTACT:</b> Ashley Flores
	<b>MAP YEAR:</b> 1901	<b>LONG BEACH, CA 90803</b>	<b>INQUIRY#:</b> 4291472.4
	<b>SERIES:</b> 60	<b>LAT/LONG:</b> 33.7673 / -118.1	<b>RESEARCH DATE:</b> 05/11/2015
	<b>SCALE:</b> 1:250000		

# Historical Topographic Map



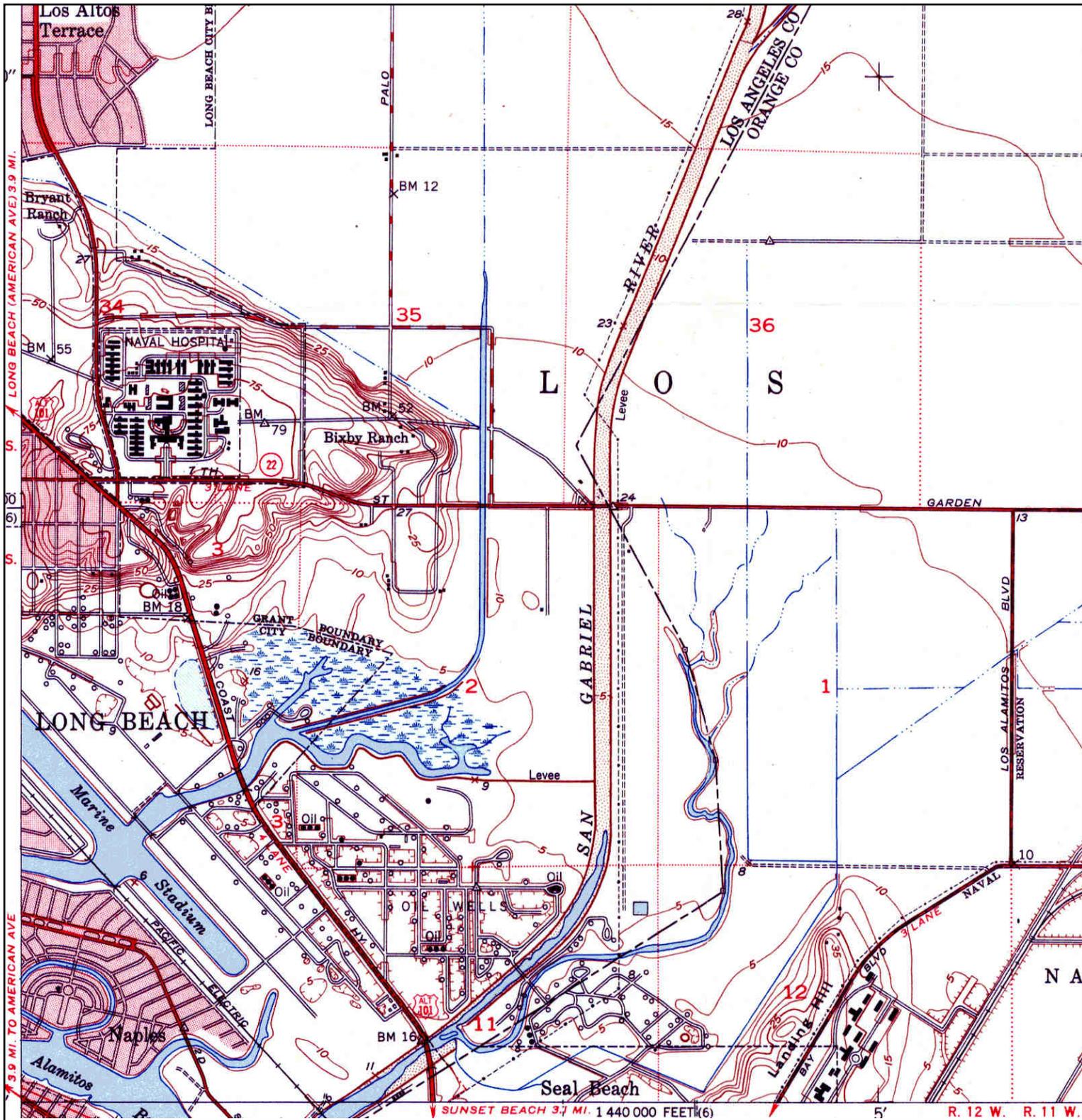
	<b>TARGET QUAD</b> NAME: DOWNEY MAP YEAR: 1902	SITE NAME: AES Alamitos Plant ADDRESS: 690 North Studebaker Road Long Beach, CA 90803 LAT/LONG: 33.7673 / -118.1	CLIENT: Env. Management Strategies CONTACT: Ashley Flores INQUIRY#: 4291472.4 RESEARCH DATE: 05/11/2015
	SERIES: 15 SCALE: 1:62500		

# Historical Topographic Map



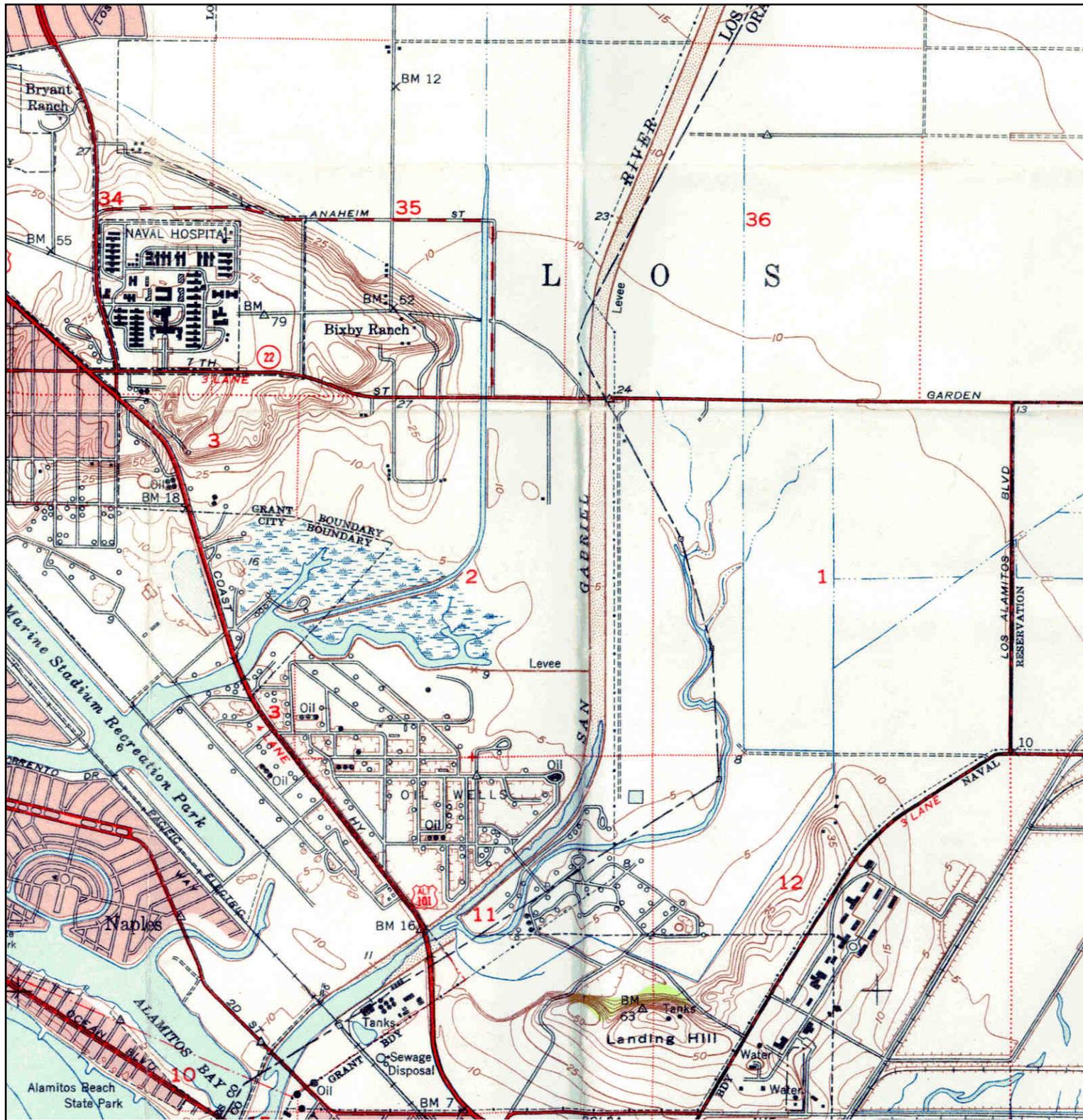
	<b>TARGET QUAD</b> NAME: DOWNEY MAP YEAR: 1947	SITE NAME: AES Alamitos Plant ADDRESS: 690 North Studebaker Road Long Beach, CA 90803 LAT/LONG: 33.7673 / -118.1	CLIENT: Env. Management Strategies CONTACT: Ashley Flores INQUIRY#: 4291472.4 RESEARCH DATE: 05/11/2015
	SERIES: 15 SCALE: 1:50000		

# Historical Topographic Map



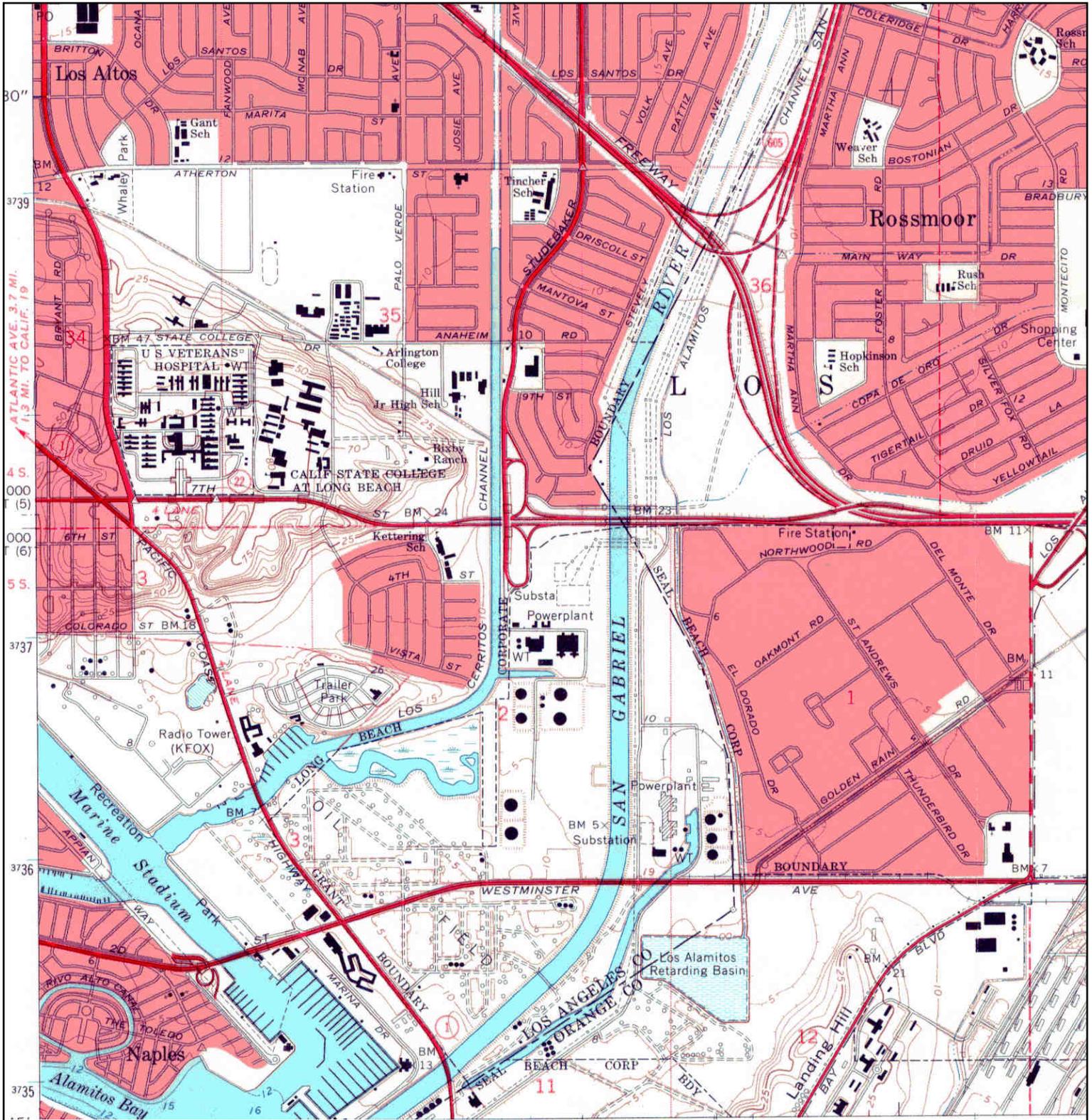
	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	NAME: LOS ALAMITOS	ADDRESS: 690 North Studebaker Road	CONTACT: Ashley Flores
	MAP YEAR: 1950	LONG BEACH, CA 90803	INQUIRY#: 4291472.4
	SERIES: 7.5	LAT/LONG: 33.7673 / -118.1	RESEARCH DATE: 05/11/2015
	SCALE: 1:24000		

# Historical Topographic Map



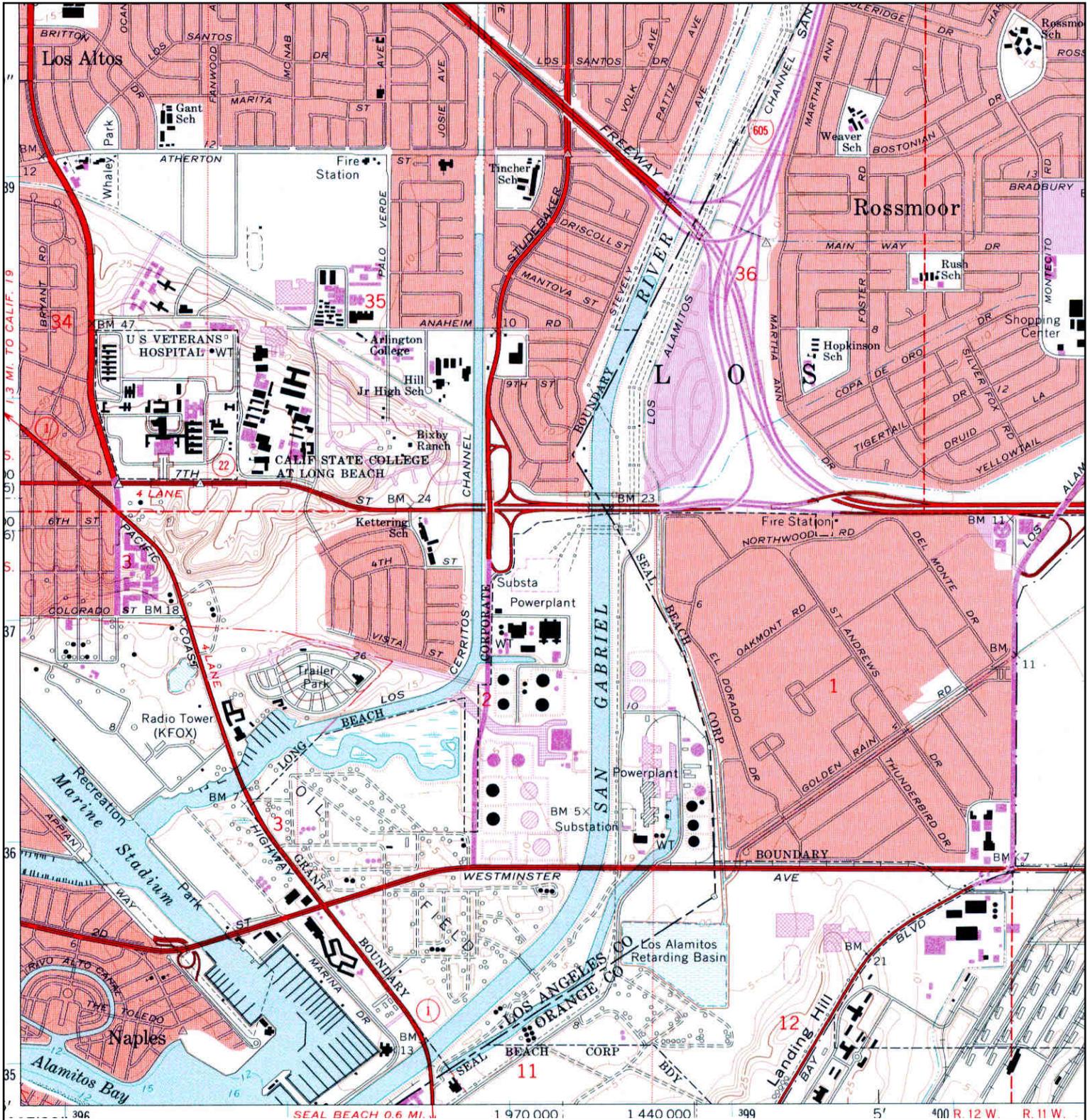
<p>N</p>	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	<b>NAME:</b> LONGBEACH VICINITY 10F3	<b>ADDRESS:</b> 690 North Studebaker Road Long Beach, CA 90803	<b>CONTACT:</b> Ashley Flores
	<b>MAP YEAR:</b> 1951	<b>LAT/LONG:</b> 33.7673 / -118.1	<b>INQUIRY#:</b> 4291472.4
	<b>SERIES:</b> 7.5		<b>RESEARCH DATE:</b> 05/11/2015
	<b>SCALE:</b> 1:24000		

# Historical Topographic Map



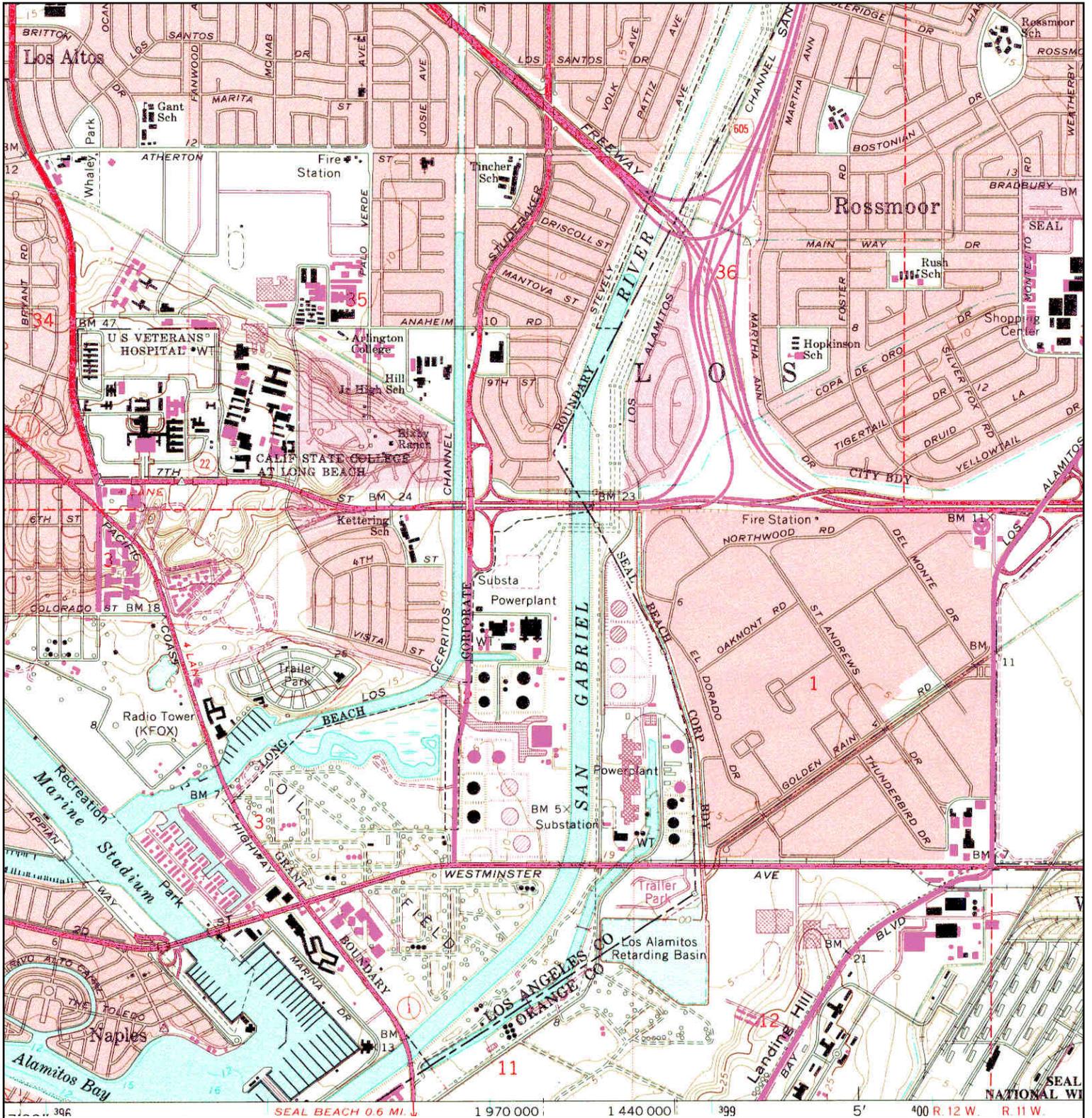
	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	<b>NAME:</b> LOS ALAMITOS	<b>ADDRESS:</b> 690 North Studebaker Road	<b>CONTACT:</b> Ashley Flores
	<b>MAP YEAR:</b> 1964	Long Beach, CA 90803	<b>INQUIRY#:</b> 4291472.4
	<b>SERIES:</b> 7.5	<b>LAT/LONG:</b> 33.7673 / -118.1	<b>RESEARCH DATE:</b> 05/11/2015
	<b>SCALE:</b> 1:24000		

# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	NAME: LOS ALAMITOS	<b>ADDRESS:</b> 690 North Studebaker Road	<b>CONTACT:</b> Ashley Flores
	MAP YEAR: 1972	Long Beach, CA 90803	<b>INQUIRY#:</b> 4291472.4
	PHOTOREVISED FROM :1964	<b>LAT/LONG:</b> 33.7673 / -118.1	<b>RESEARCH DATE:</b> 05/11/2015
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



	<b>TARGET QUAD</b>	<b>SITE NAME:</b> AES Alamitos Plant	<b>CLIENT:</b> Env. Management Strategies
	<b>NAME:</b> LOS ALAMITOS	<b>ADDRESS:</b> 690 North Studebaker Road	<b>CONTACT:</b> Ashley Flores
	<b>MAP YEAR:</b> 1981	<b>LONG BEACH, CA 90803</b>	<b>INQUIRY#:</b> 4291472.4
	<b>PHOTOREVISED FROM :</b> 1964	<b>LAT/LONG:</b> 33.7673 / -118.1	<b>RESEARCH DATE:</b> 05/11/2015
	<b>SERIES:</b> 7.5		
	<b>SCALE:</b> 1:24000		

**APPENDIX G**

**EDR AERIAL PHOTO DECADE PACKAGE**



**AES Alamos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.12  
May 12, 2015

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

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

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**Date EDR Searched Historical Sources:**

Aerial Photography May 12, 2015

**Target Property:**

690 North Studebaker Road

Long Beach, CA 90803

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1928	Aerial Photograph. Scale: 1"=500'	Flight Year: 1928	USGS
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	USGS
1947	Aerial Photograph. Scale: 1"=500'	Flight Year: 1947	Fairchild
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	USGS
1963	Aerial Photograph. Scale: 1"=500'	Flight Year: 1963	USGS
1972	Aerial Photograph. Scale: 1"=500'	Flight Year: 1972	USGS
1977	Aerial Photograph. Scale: 1"=500'	Flight Year: 1977	USGS
1981	Aerial Photograph. Scale: 1"=500'	Flight Year: 1981	USGS
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP



**INQUIRY #:** 4291472.12

**YEAR:** 1928

| = 500'





**INQUIRY #:** 4291472.12

**YEAR:** 1938

| = 500'





INQUIRY #: 4291472.12

YEAR: 1947

| = 500'





**INQUIRY #:** 4291472.12

**YEAR:** 1952

| = 500'





INQUIRY #: 4291472.12

YEAR: 1963

| = 500'





INQUIRY #: 4291472.12

YEAR: 1972

| = 500'





INQUIRY #: 4291472.12

YEAR: 1977

| = 500'





INQUIRY #: 4291472.12

YEAR: 1981

| = 500'





**INQUIRY #:** 4291472.12

**YEAR:** 1989

— = 500'





INQUIRY #: 4291472.12

YEAR: 1994

| = 500'





INQUIRY #: 4291472.12

YEAR: 2005

| = 500'





INQUIRY #: 4291472.12

YEAR: 2009

| = 500'





**INQUIRY #:** 4291472.12

**YEAR:** 2010

**|** = 500'





**INQUIRY #:** 4291472.12

**YEAR:** 2012

 = 500'



**APPENDIX H**  
**EDR CITY DIRECTORY ABSTRACT**

**AES Alamos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.5  
May 12, 2015

# The EDR-City Directory Abstract

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### SECTION

Executive Summary

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

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

### RESEARCH SUMMARY

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

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	-	-	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	-	-	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	-	-	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	-	-	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	X	X	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	X	X	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1920	Los Angeles Directory Co.	-	-	-	-

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

690 North Studebaker Road  
Long Beach, CA 90803

### FINDINGS DETAIL

Target Property research detail.

## N STUDEBAKER RD

### **690 N STUDEBAKER RD**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	AES	Cole Information Services
	AES SOUTHLAND LLC	Cole Information Services
	WINTER	Cole Information Services
2008	AES ALAMITOS LLC	Cole Information Services
	AES SOUTHLAND LLC	Cole Information Services
	SCE POWER GENERA MTC	Cole Information Services
2006	AESALAMITOS	Haines Company, Inc.
	WINTER	Haines Company, Inc.

## FINDINGS

### ADJOINING PROPERTY DETAIL

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

#### N STUDEBAKER RD

##### 698 N STUDEBAKER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	STUDEBAKER SELF STORAGE	Cole Information Services
2008	STUDEBAKER STORAGE LLC	Cole Information Services
2006	STORAGE	Haines Company, Inc.
	+STUDEBAKERSELF	Haines Company, Inc.

#### STUDEBAKER RD

##### 281 STUDEBAKER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1969	KOCH KENNEH	Pacific Telephone

##### 304 STUDEBAKER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1969	C TERREBROOD LUCIEN H	Pacific Telephone

##### 31L0 STUDEBAKER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	FACER R H	Pacific Telephone

##### 403 STUDEBAKER RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1964	STEWART CHAS B	Pacific Telephone

#### STUDEBAKER RD N

##### 300 STUDEBAKER RD N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	INTRAAAMERICAN FNDTN & DRILLING	Haines

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

#### Address Researched

690 North Studebaker Road

#### Address Not Identified in Research Source

2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

#### Address Researched

281 STUDEBAKER RD

#### Address Not Identified in Research Source

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

300 STUDEBAKER RD N

2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

304 STUDEBAKER RD

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

3110 STUDEBAKER RD

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

403 STUDEBAKER RD

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

698 N STUDEBAKER RD

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

698 N STUDEBAKER RD

2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

**APPENDIX I**  
**EDR BUILDING PERMIT REPORT**

**AES Alamitos Plant**

690 North Studebaker Road  
Long Beach, CA 90803

Inquiry Number: 4291472.8  
May 11, 2015

# EDR Building Permit Report

Target Property and Adjoining Properties

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**Glossary**

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# EDR BUILDING PERMIT REPORT

## About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

## ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquiries (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

## Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



## EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Env. Management Strategies on May 11, 2015.

### TARGET PROPERTY

690 North Studebaker Road  
Long Beach, CA 90803

### SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

### RESEARCH SUMMARY

Building permits identified: **YES**

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

### Long Beach

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
2014	City of Long Beach, Building and Safety	X	
2013	City of Long Beach, Building and Safety		X
2012	City of Long Beach, Building and Safety	X	
2011	City of Long Beach, Building and Safety		
2010	City of Long Beach, Building and Safety	X	
2009	City of Long Beach, Building and Safety		
2008	City of Long Beach, Building and Safety		

### BUILDING DEPARTMENT RECORDS SEARCHED

Name: Long Beach  
Years: 2008-2014  
Source: City of Long Beach, Building and Safety, LONG BEACH, CA  
Phone: (562) 570-LBDS

Name: Garden Grove  
Years: 1960-2015  
Source: City of Garden Grove, Community Development, ORANGE, CA  
Phone: (714) 741-5000

Name: Lakewood  
Years: 1988-2014  
Source: City of Lakewood, Community Development Department, LAKEWOOD, CA  
Phone: (562) 866-9771 x 235

Name: Los Angeles  
Years: 1988-2015  
Source: City of Los Angeles, Department of Building and Safety, VAN NUYS, CA  
Phone: (213) 482-6800

Name: Los Angeles County  
Years: 1994-2015  
Source: Los Angeles County, Building and Safety, HACIENDA HEIGHTS, CA  
Phone: (626) 458-6368

Name: San Bernardino County  
Years: 2002-2015  
Source: San Bernardino County, Land Use, Building & Safety, FONTANA, CA  
Phone: (909) 387-8311

Name: Huntington Beach  
Years: 1999-2011  
Source: Huntington Beach, Dept. of Building and Safety, HUNTINGTON BEACH, CA  
Phone: (714) 536-5241

## TARGET PROPERTY FINDINGS

### TARGET PROPERTY DETAIL

**690 North Studebaker Road  
Long Beach, CA 90803**

#### **690 N STUDEBAKER RD**

Date: **6/23/2014**  
Permit Type: **FTNK**  
Description: **DEMOLITION AND ABATEMENT OF (5) ABOVEGROUND TANKS @ AES (AST'S # 1, 2, 3, 4 & CUTTER TANK 2)**

Permit Description: **Tanks**  
Work Class:  
Proposed Use:  
Permit Number: 00033958  
Status: Open, Issued  
Valuation: \$1.00  
Contractor Company:  
Contractor Name: MILLER ENVIRONMENTAL INC

Date: **12/20/2012**  
Permit Type: **FTNK**  
Description: **FTNK-REPLACE AMMONIA PUMP MONITORING SYSTEM.AT A.E.S ALAMITOS POWER PLANT.**

Permit Description: **Tanks**  
Work Class:  
Proposed Use:  
Permit Number: 00140529  
Status: Closed  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: TAIT ENVIRONMENTAL MANAGEMENT INC

## TARGET PROPERTY FINDINGS

Date: **5/25/2010**  
Permit Type: **FTNK**  
Description: **FTNK--INSTALL PNEUMERCATOR OPTICAL LEAK SENSOR @ AES ALAMITOS**  
Permit Description: **Tanks**  
Work Class:  
Proposed Use:  
Permit Number: 00053422  
Status: Closed  
Valuation: \$1.00  
Contractor Company:  
Contractor Name: TAIT ENVIRONMENTAL MANAGEMENT INC

Date: **5/20/2010**  
Permit Type: **BELE**  
Description: **Install pneumercator optical leak sensor @ aes alamitos**  
Permit Description: **Electrical**  
Work Class:  
Proposed Use:  
Permit Number: 00066576  
Status: Issued  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: TAIT ENVIRONMENTAL MANAGEMENT INC

Date: **10/2/2007**  
Permit Type: **BU**  
Description: **CHANGE OF USE FROM OFFICES TO CHARTER HIGH SCHOOL; INCLUDES TI.**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00497874  
Status: Final  
Valuation: \$45,000.00  
Contractor Company:  
Contractor Name: PARADISE GENERAL CONT

## TARGET PROPERTY FINDINGS

Date: **10/2/2007**  
Permit Type: **PL**  
Description: **CHANGE OF USE FROM OFFICES TO CHARTER HIGH SCHOOL; INCLUDES TI.**  
Permit Description: **Plumbing permit**  
Work Class:  
Proposed Use:  
Permit Number: 00497874  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: PARADISE GENERAL CONT

Date: **9/8/2006**  
Permit Type: **EL**  
Description: **FIRE ALARM NEW--INSTL NEW SYSTEM & DIALER @ WINTER TRAINING FACIL**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00461418  
Status: Final  
Valuation: \$20,000.00  
Contractor Company:  
Contractor Name: FIRE TECHNOLOGY G S

Date: **2/21/2006**  
Permit Type: **EL**  
Description: **DW--INSTALL FM200 FIRE SUPPRESSION SYSTEM @ AES SOUTHLAND**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00454656  
Status: Final  
Valuation: \$21,835.00  
Contractor Company:  
Contractor Name: CALIFORNIA SUPPRESSION SYSTEMS

## TARGET PROPERTY FINDINGS

Date: **12/22/2005**  
Permit Type: **BU**  
Description: **TI:CHANGE T-BAR CEILING TO DRYWALL,REPLCE DOOR,LIGHT FIXTURE**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00455031  
Status: Final  
Valuation: \$5,000.00  
Contractor Company:  
Contractor Name: SHARPE STEVE

Date: **12/22/2005**  
Permit Type: **EL**  
Description: **TI:CHANGE T-BAR CEILING TO DRYWALL,REPLCE DOOR,LIGHT FIXTURE**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00455031  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: SHARPE STEVE

Date: **6/29/2000**  
Permit Type: **GR**  
Description: **ROUGH GRADING:CUT 85,900 CY & FILL 85,900 CY**  
Permit Description: **Grading permit**  
Work Class:  
Proposed Use:  
Permit Number: 00301579  
Status: Active  
Valuation: \$171,800.00  
Contractor Company:  
Contractor Name: CH2M HILL INC

## TARGET PROPERTY FINDINGS

Date: **1/26/1993**  
Permit Type: **EL**  
Description: **INSTALL SPRAY BOOTH**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00136664  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: EDISON SOUTHERN CALIFORNIA

Date: **7/2/1992**  
Permit Type: **BU**  
Description: **REROOF WITH HOT BUILT UP ROOFING**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00128601  
Status: Final  
Valuation: \$15,000.00  
Contractor Company:  
Contractor Name: CO LYTLE ROOFING E

Date: **7/15/1991**  
Permit Type: **EL**  
Description: **INSTALL POWER POLE FOR OFFICE TRAILER**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00106430  
Status: Active  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: COBRA ELECTRICAL ENTERPRISES

## TARGET PROPERTY FINDINGS

Date: **10/10/1988**  
Permit Type: **PL**  
Description: **NEW GUARD HOUSE @ SOUTHERN CAL.EDISON FRONT ENTRANCE GATE**  
Permit Description: **Plumbing permit**  
Work Class:  
Proposed Use:  
Permit Number: 00040135  
Status: Final  
Valuation: \$24.00  
Contractor Company:  
Contractor Name: GILLETTE ELECTRIC

Date: **10/7/1988**  
Permit Type: **EL**  
Description: **NEW GUARD HOUSE @ SOUTHERN CAL.EDISON FRONT ENTRANCE GATE**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00040135  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: GILLETTE ELECTRIC

Date: **9/30/1988**  
Permit Type: **BU**  
Description: **NEW GUARD HOUSE @ SOUTHERN CAL.EDISON FRONT ENTRANCE GATE**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00040135  
Status: Active  
Valuation: \$30,000.00  
Contractor Company:  
Contractor Name: GILLETTE ELECTRIC

## TARGET PROPERTY FINDINGS

Date: **9/30/1988**  
Permit Type: **BU**  
Description: **CONST 8' X 50' BLOCK WALL FENCE**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00040130  
Status: Final  
Valuation: \$2,600.00  
Contractor Company:  
Contractor Name: JA SAN BUILDERS E

Date: **9/30/1988**  
Permit Type: **DE**  
Description: **DEMOLISH EXISTING GUARD SHACK**

Permit Description: **Demolition permit**  
Work Class:  
Proposed Use:  
Permit Number: 00040134  
Status: Final  
Valuation: \$1,000.00  
Contractor Company:  
Contractor Name: JA SAN BUILDERS E

Date: **8/20/1987**  
Permit Type: **PL**  
Description: **BACKFLOW DEVICE**

Permit Description: **Plumbing permit**  
Work Class:  
Proposed Use:  
Permit Number: 00022500  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: WESTERN LANDSCAPE CONSTRUCTION S

## TARGET PROPERTY FINDINGS

Date: **4/7/1987**  
Permit Type: **EL**  
Description: **INSTL TEMP PWR PLE FOR MODERN ALLOYS ( FREEWAY CONST)**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00017157  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: INC C T & F

Date: **2/19/1987**  
Permit Type: **EL**  
Description: **INSTALL TEMP. POWER POLE WITH SERVICE**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00015172  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: SERVICES BFI N

Date: **2/2/1987**  
Permit Type: **BU**  
Description: **NEW TYPE V-N OFFICE/TRAINING FACILITY**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00009429  
Status: Final  
Valuation: \$1,809,000.00  
Contractor Company:  
Contractor Name: ANDERSON S C

## TARGET PROPERTY FINDINGS

Date: **2/2/1987**  
Permit Type: **EL**  
Description: **NEW TYPE V-N OFFICE/TRAINING FACILITY**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00009429  
Status: Final  
Valuation: \$689.00  
Contractor Company:  
Contractor Name: ANDERSON S C

Date: **2/2/1987**  
Permit Type: **ME**  
Description: **NEW TYPE V-N OFFICE/TRAINING FACILITY**  
Permit Description: **Mechanical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00009429  
Status: Final  
Valuation: \$596.00  
Contractor Company:  
Contractor Name: ANDERSON S C

Date: **2/2/1987**  
Permit Type: **PL**  
Description: **NEW TYPE V-N OFFICE/TRAINING FACILITY**  
Permit Description: **Plumbing permit**  
Work Class:  
Proposed Use:  
Permit Number: 00009429  
Status: Final  
Valuation: \$229.00  
Contractor Company:  
Contractor Name: ANDERSON S C

## TARGET PROPERTY FINDINGS

Date: **7/30/1986**  
Permit Type: **EL**  
Description: **100 AMP SERVICE**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00007185  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: HAMLIN JOHN

Date: **5/29/1986**  
Permit Type: **BU**  
Description: **INSTALL NEW LIGHT STANDARDS & ELECTRICAL LEAK DETECTION SYSTEM**  
Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00002642  
Status: Final  
Valuation: \$1,000.00  
Contractor Company:  
Contractor Name: BENTLEY COMPANY THE

Date: **5/29/1986**  
Permit Type: **EL**  
Description: **INSTALL NEW LIGHT STANDARDS & ELECTRICAL LEAK DETECTION SYSTEM**  
Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00002642  
Status: Final  
Valuation: \$74.00  
Contractor Company:  
Contractor Name: BENTLEY COMPANY THE

## ADJOINING PROPERTY FINDINGS

### ADJOINING PROPERTY DETAIL

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

#### N STUDEBAKER RD

##### 698 N STUDEBAKER RD

Date: **4/19/2013**  
Permit Type: **BELE**  
Description: **Upgrade utilities of existing cell site from copper telco to fiber optics. Trench less than 10' on private property to intercept (e) U/Gconduit to bring fiber to lease area. In lease area, install small fiber cabinet on wall to accept the fiber. Low voltage work.**

Permit Description: **Electrical**  
Work Class:  
Proposed Use:  
Permit Number: 00145103  
Status: Issued  
Valuation: \$2,000.00  
Contractor Company:  
Contractor Name: EUGENE BREANLT

Date: **1/24/2000**  
Permit Type: **BU**  
Description: **ADD TO EXISTING SELF-STORAGE PHASE 4-WEST AND PHASE 4-EAST**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00289971  
Status: Final  
Valuation: \$33,000.00  
Contractor Company:  
Contractor Name:

## ADJOINING PROPERTY FINDINGS

Date: **3/11/1999**  
Permit Type: **BU**  
Description: **ADD TO EXIST SELF-STORAGE BLDG PHASE II,PRE-FAB METAL CONTAINERS**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00250516  
Status: Final  
Valuation: \$35,000.00  
Contractor Company:  
Contractor Name:

Date: **3/11/1999**  
Permit Type: **BU**  
Description: **ADD TO EXISTING SELF-STORAGE PHASE III- PRE-FAB CONTAINERS**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00260832  
Status: Final  
Valuation: \$105,000.00  
Contractor Company:  
Contractor Name:

Date: **9/16/1997**  
Permit Type: **EL**  
Description: **INSTALL 2- ILLUMINATED SIGNS, (STUDEBAKER SELF-STORAGE)**

Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00241603  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: FLYNN SIGN & GRAPHICS E

## ADJOINING PROPERTY FINDINGS

Date: **9/5/1997**  
Permit Type: **BU**  
Description: **INSTALL 7 LIGHT STANDARDS (ELECTRIC PAID ON PROJ #220184)**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00240453  
Status: Final  
Valuation: \$3,600.00  
Contractor Company:  
Contractor Name: BUILDERS GENTOSI W

Date: **7/17/1997**  
Permit Type: **EL**  
Description: **TEMP POWER POLE**

Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00238050  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: BEREUTER ART E

Date: **6/30/1997**  
Permit Type: **GR**  
Description: **GRADING FOR 1 STORY SELF-STORAGE SITE (#220184 IMPROVEMENTS)**

Permit Description: **Grading permit**  
Work Class:  
Proposed Use:  
Permit Number: 00233408  
Status: Final  
Valuation: \$6,000.00  
Contractor Company:  
Contractor Name: BUILDERS GENTOSI W

## ADJOINING PROPERTY FINDINGS

Date: **6/30/1997**  
Permit Type: **BU**  
Description: **800 L.F. X 9'-0" BLOCKWALL FENCE AROUND STORAGE FACILITY**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00220186  
Status: Final  
Valuation: \$70,000.00  
Contractor Company:  
Contractor Name: BUILDERS GENTOSI W

Date: **6/30/1997**  
Permit Type: **BU**  
Description: **ADD TO EXIST SELF-STORAGE BLDG PHASE 1, PRE-FAB METAL CONTAINERS**

Permit Description: **Building permit**  
Work Class:  
Proposed Use:  
Permit Number: 00220184  
Status: Final  
Valuation: \$600,000.00  
Contractor Company:  
Contractor Name: BUILDERS GENTOSI W

Date: **6/30/1997**  
Permit Type: **EL**  
Description: **ADD TO EXIST SELF-STORAGE BLDG PHASE 1, PRE-FAB METAL CONTAINERS**

Permit Description: **Electrical permit**  
Work Class:  
Proposed Use:  
Permit Number: 00220184  
Status: Final  
Valuation: \$0.00  
Contractor Company:  
Contractor Name: BUILDERS GENTOSI W

## ADJOINING PROPERTY FINDINGS

Date: **7/26/1991**  
Permit Type: **BU**  
Description: **NEW PRE-FAB OFC BLDG (PACIFIC VIEW) (1440 SQFT)**

Permit Description: **Building permit**

Work Class:

Proposed Use:

Permit Number: 00107305

Status: Final

Valuation: \$30,000.00

Contractor Company:

Contractor Name:

## GLOSSARY

### General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeyman:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

## GLOSSARY

### Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

### Sample Building Permit Data

Date: Nov 09, 2000

Permit Type: Bldg -

New Permit Number: 10100000405

Status: Valuation: \$1,000,000.00

Contractor Company: OWNER-BUILDER

Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

**APPENDIX J**  
**LOCAL AGENCY RECORDS**

**Description of Monitoring Wells  
Alamitos Generating Station**

**Table 1**

<b>Well No.</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation Top of Casing (feet)</b>	<b>Well Depth (feet)</b>	<b>Well Diameter (inches)</b>	<b>Perforated Interval (feet)</b>	<b>Depth to Pump Intake (feet) (Measured from top of casing)</b>	<b>Well Use</b>
<b>AW-1</b>	-741.625	1395.322	12.79	25	4	10-25	24	Water Level -- Sampling
<b>AW-2</b>	-820.089	1312.825	13.33	35	2	20-35	32	Water Level -- Sampling
<b>AW-3</b>	-824.918	1368.482	13.78	30	2	20-30	24	Water Level -- Sampling
<b>AW-4</b>	-57.544	1364.332	13.47	25	4	5-25	18	Water Level -- Sampling
<b>AW-5</b>	-297.556	1251.897	13.54	25	4	10-25	24	Water Level -- Sampling
<b>AW-6</b>	-250.643	1366.286	13.44	25	4	10-25	20	Water Level -- Sampling
<b>AW-7</b>	-364.666	1151.218	13.81	24	4	9-24	20	Water Level -- Sampling
<b>AW-8</b>	-574.609	1369.19	13.50	25	4	10-25	24	Water Level -- Sampling
<b>AW-9</b>	-586.294	1273.37	13.22	25	4	10-25	24	Water Level -- Sampling
<b>AW-10</b>	-1088.06	1225.507	12.79	30	4	15-30	20	Water Level -- Sampling
<b>AW-11</b>	-1068.064	1395.698	12.25	30	4	15-30	27	Water Level -- Sampling
<b>AW-12</b>	-1298.525	1395.997	11.49	30	4	15-30	27	Water Level -- Sampling
<b>AW-13</b>	83.187	1048.851	14.16	25	4	5-25		Water Level
<b>AW-14</b>	83.95	850.784	14.02	25	4	5-25		Water Level
<b>AW-15</b>	-1757.131	1052.98	13.51	25	4	5-25		Water Level
<b>AW-16</b>	-228.992	1389.865	13.31	24	4	9-24	20	Water Level -- Sampling
<b>AW-17</b>	-299.088	1388.591	12.98	24	4	9-24	23	Water Level -- Sampling
<b>AW-18</b>	-301.162	1321.471	13.29	24	4	9-24	20	Water Level -- Sampling
<b>AW-19</b>	-329.732	1295.547	13.45	24	4	9-24	23	Water Level -- Sampling
<b>AW-20</b>	-442.371	1368.449	12.34	24	4	9-24	20	Water Level -- Sampling
<b>AW-21</b>	-502.366	1368.435	12.70	24	4	9-24	20	Water Level -- Sampling
<b>AW-22</b>	-607.312	1395.787	12.67	24	4	9-24	24	Water Level -- Sampling
<b>AW-23</b>	-681.49	1239.961	17.22	28	4	13-28	23	Water Level -- Sampling

**Description of Monitoring Wells  
Alamitos Generating Station**

**Table 1**

<b>Well No.</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation Top of Casing (feet)</b>	<b>Well Depth (feet)</b>	<b>Well Diameter (inches)</b>	<b>Perforated Interval (feet)</b>	<b>Depth to Pump Intake (feet) (Measured from top of casing)</b>	<b>Well Use</b>
<b>AW-24</b>	-682.349	1328.215	17.14	28	4	13-28	27	Water Level -- Sampling
<b>AW-25</b>	-868.053	1367.239	13.44	24	4	9-24	20	Water Level -- Sampling
<b>AW-26</b>	-1000.127	1384.037	12.18	24	4	9-24	23	Water Level -- Sampling
<b>AW-27</b>	-1132.335	1395.711	11.88	24	4	9-24	24	Water Level -- Sampling
<b>AW-28</b>	-284.173	1400.246	13.29	24	4	9-24	23	Water Level -- Sampling
<b>AW-29</b>	-328.852	1400.728	13.26	24	4	9-24	23	Water Level -- Sampling
<b>AW-30</b>	-378.297	1356.209	12.90	24	4	9-24	23	Water Level -- Sampling
<b>AW-31</b>	-414.769	1385.013	12.77	24	4	9-24	23	Water Level -- Sampling
<b>AW-32</b>	-464.173	1395.461	12.52	24	4	9-24	23	Water Level -- Sampling
<b>AW-33</b>	-494.863	1393.605	12.31	24	4	9-24	23	Water Level -- Sampling
<b>AW-34</b>	-527.645	1387.909	12.36	24	4	9-24	23	Water Level -- Sampling
<b>AW-35</b>	-827.949	1396.295	12.13	24	4	9-24	23	Water Level -- Sampling
<b>AW-36</b>	-895.896	1396.891	11.77	24	4	9-24	23	Water Level -- Sampling
<b>AW-37</b>	-944.574	1371.772	10.79	24	4	9-24	23	Water Level -- Sampling
<b>AW-38</b>	-1008.474	1398.758	10.43	24	4	9-24	23	Water Level -- Sampling
<b>AW-39</b>	-1418.37	1270.099	13.08	24	4	9-24	23	Water Level -- Sampling
<b>AW-40</b>	1151.55	-161.01	11.96	30	4	15-30	22	Water Level -- Sampling
<b>AW-41</b>	1135.47	-568.99	11.34	29	4	15-29	22	Water Level -- Sampling
<b>AW-42</b>	1223.33	-766.71	11.35	33	4	12-27	27	Water Level -- Sampling
<b>AW-43</b>	1267.14	-922.74	11.57	26	4	16-26	20	Water Level -- Sampling
<b>503X</b>	-637.854	841.635	9.86	98	2	16-94		Water Level
<b>503Y</b>	-989.15	1440.098	20.64	86	2	50-80		Water Level

**Table 2**

**Monitoring Well Sampling Schedule  
Evaluation Monitoring Program  
Alamitos Generating Station**

<b>Well No.</b>	<b>March</b>	<b>June</b>	<b>September</b>	<b>December</b>
<b>North Basin</b>				
<b>AW-40 (background)</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-4</b>			<b>X</b>	
<b>AW-5</b>			<b>X</b>	
<b>AW-6</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-16</b>			<b>X</b>	
<b>AW-17</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-18</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-19</b>	<b>X</b>		<b>X</b>	
<b>AW-28</b>			<b>X</b>	
<b>AW-29</b>			<b>X</b>	
<b>AW-30</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Central Basin</b>				
<b>AW-7 (background)</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-8</b>			<b>X</b>	
<b>AW-9</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-20</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-21</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-22</b>			<b>X</b>	
<b>AW-31</b>			<b>X</b>	
<b>AW-32</b>	<b>X</b>		<b>X</b>	
<b>AW-33</b>			<b>X</b>	
<b>AW-34</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>

**Table 2**

**Monitoring Well Sampling Schedule  
Evaluation Monitoring Program  
Alamitos Generating Station**

<b>Well No.</b>	<b>March</b>	<b>June</b>	<b>September</b>	<b>December</b>
<b>BCCB</b>				
<b>AW-41 (background)</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-42 (background)</b>	<b>X</b>		<b>X</b>	
<b>AW-1</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-2</b>	<b>X</b>		<b>X</b>	
<b>AW-3</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-23</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-24</b>			<b>X</b>	
<b>AW-25</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-35</b>			<b>X</b>	
<b>AW-36</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-37</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-43</b>	<b>X</b>		<b>X</b>	
<b>South Basin</b>				
<b>AW-10 (background)</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-39 (background)</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-11</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-12</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-26</b>			<b>X</b>	
<b>AW-27</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>AW-38</b>			<b>X</b>	
<b>Total</b>	<b>27</b>	<b>22</b>	<b>40</b>	<b>22</b>

Table 3

## Groundwater Elevations Alamitos Generating Station

Well No.	Northing	Easting	Elevation Top of Casing	3/7/12	6/5/12	9/4/12	12/5/12	2/27/13	6/5/13	9/2/13	12/10/13
AW-1	-741.625	1395.322	12.79	1.01	1.90	1.91	1.98	2.26	0.34	1.22	1.29
AW-2	-820.089	1312.825	13.33	1.13	1.96	1.91	1.87	2.24	0.37	1.06	1.12
AW-3	-824.918	1368.482	13.78	1.14	1.84	1.90	1.85	2.26	0.48	1.06	1.18
AW-4	-57.544	1364.332	13.47	1.21	1.93	1.87	2.34	2.31	0.55	1.15	1.57
AW-5	-297.556	1251.897	13.54	1.29	2.12	2.21	2.31	2.42	0.34	1.46	1.66
AW-6	-250.643	1366.286	13.44	1.26	2.14	2.14	2.33	2.36	0.30	1.31	1.51
AW-7	-364.666	1151.218	13.81	1.34	2.13	2.17	2.34	2.51	0.54	1.64	1.72
AW-8	-574.609	1369.19	13.50	1.11	2.11	2.03	2.28	2.48	0.12	1.22	1.32
AW-9	-586.294	1273.37	13.22	1.17	2.15	2.09	2.32	2.56	0.26	1.32	1.67
AW-10	-1088.06	1225.507	12.79	1.18	1.83	1.86	1.38	2.01	0.37	0.71	0.55
AW-11	-1068.064	1395.698	12.25	0.79	1.72	1.58	1.64	1.96	-0.50	0.56	0.85
AW-12	-1298.525	1395.997	11.49	0.66	1.79	1.56	1.71	1.94	-1.06	0.48	1.31
AW-13	83.187	1048.851	14.16	1.52	2.24	2.48	2.44	2.47	1.09	1.99	1.91
AW-14	83.95	850.784	14.02	1.32	1.87	2.15	2.23	2.33	0.96	1.77	1.96
AW-15	-1757.131	1052.98	13.51	1.05	1.98	1.67	1.75	2.24	0.49	1.48	1.63
AW-16	-228.992	1389.865	13.31	1.24	1.98	2.13	2.36	2.35	0.48	1.34	1.50
AW-17	-299.088	1388.591	12.98	1.21	2.13	2.14	2.39	2.38	0.44	1.28	1.58
AW-18	-301.162	1321.471	13.29	1.26	2.13	2.14	2.31	2.37	0.30	1.41	1.67
AW-19	-329.732	1295.547	13.45	1.28	2.16	2.13	2.33	2.39	0.37	1.45	1.62
AW-20	-442.371	1368.449	12.34	1.15	2.12	2.16	2.31	2.52	0.19	1.25	1.52
AW-21	-502.366	1368.435	12.70	1.16	2.11	2.14	2.33	2.53	0.13	1.29	1.47
AW-22	-607.312	1395.787	12.67	1.05	2.07	2.04	2.09	2.46	0.22	1.19	1.32
AW-23	-681.49	1239.961	17.22	1.18	2.02	1.92	2.21	2.44	0.34	1.34	1.62
AW-24	-682.349	1328.215	17.14	1.13	2.08	1.96	2.03	2.39	0.36	1.32	1.51
AW-25	-868.053	1367.239	13.44	1.15	1.84	1.94	1.82	2.25	0.38	0.96	0.57
AW-26	-1000.127	1384.037	12.18	1.04	1.72	1.63	1.69	2.01	-0.09	0.64	0.77

**Table 3**

**Groundwater Elevations  
Alamitos Generating Station**

<b>Well No.</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation Top of Casing</b>	<b>3/7/12</b>	<b>6/5/12</b>	<b>9/4/12</b>	<b>12/5/12</b>	<b>2/27/13</b>	<b>6/5/13</b>	<b>9/2/13</b>	<b>12/10/13</b>
<b>AW-27</b>	-1132.335	1395.711	11.88	0.50	1.73	1.34	1.78	1.63	-1.46	0.13	1.33
<b>AW-28</b>	-284.173	1400.246	13.29	1.20	2.03	2.12	2.39	2.37	0.43	1.28	1.57
<b>AW-29</b>	-328.852	1400.728	13.26	1.19	2.12	2.18	2.37	2.39	0.41	1.23	1.57
<b>AW-30</b>	-378.297	1356.209	12.90	1.22	2.13	2.12	2.34	2.43	0.27	1.35	1.50
<b>AW-31</b>	-414.769	1385.013	12.77	1.19	2.17	2.08	2.30	2.48	0.19	1.26	1.51
<b>AW-32</b>	-464.173	1395.461	12.52	1.13	2.13	2.01	2.17	2.55	0.20	1.27	1.41
<b>AW-33</b>	-494.863	1393.605	12.31	1.17	2.11	2.08	2.16	2.52	0.16	1.27	1.44
<b>AW-34</b>	-527.645	1387.909	12.36	1.16	2.11	2.09	2.19	2.51	0.10	1.27	1.39
<b>AW-35</b>	-827.949	1396.295	12.13	1.15	1.86	1.91	1.89	2.24	0.40	1.06	1.27
<b>AW-36</b>	-895.896	1396.891	11.77	1.11	1.89	1.80	1.72	2.21	0.38	0.99	0.84
<b>AW-37</b>	-944.574	1371.772	10.79	1.06	1.71	1.70	1.49	2.02	0.21	0.74	0.70
<b>AW-38</b>	-1008.474	1398.758	10.43	1.02	1.71	1.65	1.66	2.01	-0.08	0.69	0.82
<b>AW-39</b>	-1418.37	1270.099	13.08	0.87	1.77	1.52	1.47	2.01	-0.90	0.71	1.71
<b>AW-40</b>	1151.55	-161.01	11.96	1.32	2.11	2.22	2.49	2.47	0.53	1.52	1.79
<b>AW-41</b>	1135.47	-568.99	11.34	1.27	2.11	2.13	2.36	2.61	0.54	1.47	1.69
<b>AW-42</b>	1223.33	-766.71	11.35	1.13	2.04	1.98	2.18	2.38	0.36	1.35	1.73
<b>AW-43</b>	1267.14	-922.74	11.57	1.26	1.93	1.94	1.64	2.17	0.57	0.94	0.77
<b>503X</b>	-637.854	841.635	9.86	1.59	2.31	2.15	3.00	2.68	1.07	1.91	1.99
<b>503Y</b>	-989.15	1440.098	20.64	1.01	1.71	1.62	1.73	2.01	-0.10	0.67	0.91

Table 4

**Groundwater Regulatory Exceedance  
Fourth Quarter 2013 Event  
North Basin  
Alamitos Generating Station**

Parameter	Well ID		AW-40	AW-6	AW-17	AW-18	AW-30
	Units	Cal MCL					
Antimony	ug/L	6	ND	ND	ND	ND	ND
Arsenic	ug/L	10	ND	ND	ND	13	ND
Barium	ug/L	1000	97	31	20	92	33
Beryllium	ug/L	4	ND	ND	ND	ND	ND
Cadmium	ug/L	5	ND	ND	ND	ND	ND
Chromium, Total	ug/L	50	ND	ND	ND	ND	2.1
Cobalt	ug/L	11**	0.59	1.2	1.1	ND	ND
Copper	ug/L	1300	ND	ND	ND	ND	ND
Lead	ug/L	15	ND	ND	ND	ND	ND
Molybdenum	ug/L	180**	6.6	6.8	5.9	16	13
Nickel	ug/L	100	8.9	11	13	6.4	42
Selenium	ug/L	50	ND	ND	ND	ND	ND
Silver	ug/L	100	ND	ND	ND	ND	ND
Thallium	ug/L	2	ND	ND	ND	ND	ND
Vanadium	ug/L	180**	ND	ND	ND	ND	ND
Zinc	ug/L	5000	ND	ND	ND	ND	ND
pH	Units	6.5-8.5*	7.6	7.4	7.5	7.5	7.4
TDS	mg/L	500*	1,500	3,400	3,500	2,500	3,000
C-1,2-DCE	ug/L	6	ND	21	14	13	ND
Vinyl Chloride (VC)	ug/L	0.5	ND	0.62	ND	0.96	ND
1,4-Dioxane	ug/L	35***	0.62	6.6	5.1	2.1	0.95
* Secondary Standards							
** EPA Regional Screening Levels							
*** Drinking Water Response Level							

Table 5

**Analytical Groundwater Results -- Fourth Quarter 2013 Event -- CAM Metals and General Mineral Parameters  
North Basin -- Alamitos Generating Station**

Parameter	Well ID		AW-40 (Background)						AW-6						AW-30					
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL																		
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	ug/l	2	2.4	2	2.4	ND	2.3	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	
Barium	ug/l	2.5	120	140	83	75	105	97	28	29	28	26	28	31	33	49	44	37	41	
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium, Total	ug/l	1	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	8.8	ND	3.9	4.6	
Cobalt	ug/l	0.5	ND	ND	ND	0.54	0.59	0.5	ND	0.8	1.6	1.0	1.2	1	1	ND	0.8	0.99	0.9	
Copper	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Molybdenum	ug/l	0.5	7.4	5.9	6.4	6	6.4	6.6	9	6.3	15	13	10.8	6.8	9.9	10	8.4	9.8	9.5	
Nickel	ug/l	4	ND	ND	ND	6.4	8.9	8.9	ND	ND	ND	10	11	11	76	170	170	99	129	
Selenium	ug/l	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	2.6	2.6	2.3	2.4	
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vanadium	ug/l	2.5	2.6	2.7	4.4	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	ug/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH	Units		7.6	7.7	7.6	7.7	7.7	7.6	7.4	7.6	7.4	7.4	7.4	7.4	7.5	7.5	7.4	7.4	7.5	
TDS	mg/l	10	1,300	1,700	1,100	1,200	1,325	1,500	3,300	3,100	3,600	3,500	3,375	3,400	3,100	3,100	3,200	3,100	3,125	
Chloride	mg/l	0.5	150	300	80	98	157	170	770	1,500	860	880	1003	890	920	1,100	1,000	1,000	1005	

Parameter	Well ID		AW-17						AW-18						AW-19					
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL																		
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Not Scheduled						
Arsenic	ug/l	2	ND	ND	ND	ND	ND	14	5.5	9.6	29	14.5	13							
Barium	ug/l	2.5	25	20	37	23	26	20	54	33	67	71	56							92
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							ND
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							ND
Chromium, Total	ug/l	1	ND	ND	ND	8.7	ND	ND	ND	ND	ND	ND	ND							ND
Cobalt	ug/l	0.5	ND	ND	ND	1.2	1.1	1.1	ND	ND	ND	0.66	ND							ND
Copper	ug/l	2.5	3.4	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND							ND
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							ND
Molybdenum	ug/l	0.5	6.6	6	6.3	5.5	6.1	5.9	38	27	51	53	42							16
Nickel	ug/l	4	4	ND	13	13	10	13	4.1	4.4	22	29	14.9							6.4
Selenium	ug/l	2	ND	ND	4	2.6	ND	ND	ND	ND	ND	ND	ND							ND
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							ND
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND						
Vanadium	ug/l	2.5	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND						
Zinc	ug/l	10	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND						
pH	Units		7.5	7.6	7.4	7.5	7.5	7.5	7.5	7.6	7.5	7.6	7.5	7.5						
TDS	mg/l	10	4,600	3,200	8,100	4,700	5,150	3,500	2,100	2,000	1,700	1,900	1,925	2,500						
Chloride	mg/l	0.5	1,300	1,600	2,800	1,400	1,775	940	550	480	380	440	463	800						

Table 6

**Analytical Groundwater Results -- Fourth Quarter 2013 Event  
EPA Methods 8260 and 8270M  
North Basin -- Alamitos Generating Station**

Parameter	Well ID		AW-40 (Background)					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>0.7</b>	<b>1.5</b>	ND	ND	<b>1.1</b>	<b>0.62</b>

Parameter	Well ID		AW-6					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5	<b>8.4</b>	<b>6.6</b>	<b>2</b>	<b>11</b>	<b>7.0</b>	<b>21</b>
Vinyl Chloride (VC)	ug/l	0.5	ND	ND	ND	ND		<b>0.62</b>
1,4-Dioxane	ug/l	0.5	<b>6.3</b>	<b>6.2</b>	<b>3.8</b>	<b>4.9</b>	<b>5.3</b>	<b>6.6</b>

Parameter	Well ID		AW-17					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5	<b>11</b>	<b>13</b>	<b>1.9</b>	<b>9</b>	<b>9</b>	<b>14</b>
Vinyl Chloride (VC)	ug/l	0.5	ND	ND	ND	<b>0.56</b>		ND
1,4-Dioxane	ug/l	0.5	<b>5.3</b>	<b>6.3</b>	<b>1.3</b>	<b>4.9</b>	<b>4.5</b>	<b>5.1</b>

Parameter	Well ID		AW-18					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5	<b>1.4</b>	ND	ND	<b>1</b>	<b>1.2</b>	<b>13</b>
Vinyl Chloride (VC)	ug/l	0.5	ND	ND	ND	ND		<b>0.96</b>
1,4-Dioxane	ug/l	0.5	<b>1.2</b>	<b>1.5</b>	ND	ND	<b>1.4</b>	<b>2.1</b>

Parameter	Well ID		AW-19					
	Units	PQL	Date				Average	12/12
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5		ND		ND		
1,1-Dichloroethane (1,1-DCA)	ug/l	0.5	NS	<b>1.1</b>	NS	<b>0.75</b>	<b>0.93</b>	NS
1,4-Dioxane	ug/l	0.5		ND		ND		

Parameter	Well ID		AW-30					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	0.5	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	ND	ND	ND	ND		<b>0.95</b>

NS = Not Scheduled for Sampling

Table 7

**Groundwater Regulatory Exceedance -- Fourth Quarter 2013 Event  
Central Basin  
Alamitos Generating Station**

Parameter	Well ID		AW-7	AW-9	AW-20	AW-21	AW-34
	Units	Cal MCL					
Antimony	ug/L	6	ND	ND	ND	ND	ND
Arsenic	ug/L	10	ND	ND	ND	ND	ND
Barium	ug/L	1000	110	26	29	13	30
Beryllium	ug/L	4	ND	ND	ND	ND	ND
Cadmium	ug/L	5	ND	ND	ND	ND	ND
Chromium, Total	ug/L	50	ND	ND	ND	ND	ND
Cobalt	ug/L	11**	ND	1.5	1.1	1.4	2.6
Copper	ug/L	1300	ND	ND	ND	2.6	3.6
Lead	ug/L	15	ND	ND	ND	ND	ND
Molybdenum	ug/L	180**	17	2.6	2.3	2.8	3.9
Nickel	ug/L	100	ND	14	10	17	33
Selenium	ug/L	50	ND	ND	ND	2	2.8
Silver	ug/L	100	ND	ND	ND	ND	ND
Thallium	ug/L	2	ND	ND	ND	ND	ND
Vanadium	ug/L	180**	14	ND	ND	ND	ND
Zinc	ug/L	5000	ND	ND	ND	ND	ND
pH	Units	6.5-8.5*	7.4	7.4	7.4	7.3	7.1
TDS	mg/L	500*	1,000	3,900	3,200	4,500	7,400
c-1,2-DCE	ug/L	6	ND	ND	110	5.8	3.8
VC	ug/L	0.5	ND	ND	3.2	ND	ND
TCE	ug/L	5	ND	ND	1.0	ND	ND
t-1,2-DCE	ug/L	10	ND	ND	1.8	ND	ND
1,4-Dioxane	ug/L	35***	ND	2.7	2.9	2.2	ND
<p>* Secondary Standards  ** EPA Regional Screening Levels  *** Drinking Water Response Level</p>							

Table 8

**Analytical Groundwater Results -- Fourth Quarter 2013 Event -- CAM Metals and General Mineral Parameters  
Cenral Basin -- Alamitos Generating Station**

Parameter	Well ID		AW-7 (Background)						AW-9						AW-20					
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL																		
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/l	2	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ug/l	2.5	46	47	60	75	57	110	16	20	15	20	18	26	31	32	39	33	34	29
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	ug/l	1	1	ND	1.4	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ug/l	0.5	ND	ND	ND	ND	ND	ND	0.71	ND	ND	1.6	1.2	1.5	1.3	ND	0.95	2.1	1.5	1.1
Copper	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/l	0.5	21	19	16	18	19	17	1.5	1.7	2.6	3	2.2	2.6	2.6	1.9	1.9	2.4	2.2	2.3
Nickel	ug/l	4	5.3	ND	ND	ND	ND	ND	9.4	ND	ND	15	12.2	14	10	ND	4	15	9.7	10
Selenium	ug/l	2	2	2.6	2.6	ND	2.4	ND	2.2	ND	10	2.3	4.8	ND	ND	ND	ND	ND	ND	ND
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/l	2.5	ND	3	25	19	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ug/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH	Units		7.6	7.7	7.7	7.7	7.7	7.4	7.3	7.5	7.4	7.4	7.4	7.4	7.3	7.4	7.2	7.3	7.3	7.4
TDS	mg/l	10	960	920	810	860	888	1,000	3,500	3,400	3,300	3,800	3,500	3,900	3,700	2,800	4,600	3,800	3,725	3,200
Chloride	mg/l	0.5	84	75	59	79	74	120	860	1,000	630	1,000	873	1,100	910	780	1,100	1,000	948	830

Parameter	Well ID		AW-21					AW-34					AW-32									
	Date		12/12	6/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13		
	Units	PQL																				
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Not Scheduled	ND	ND	ND	ND	Not Scheduled	ND		
Arsenic	ug/l	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND
Barium	ug/l	2.5	18	14	14	11	14	13	26	29	31	31	29		30	32	27	30		30	30	30
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND
Chromium, Total	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND		ND	2.2	2	2.1		2.1	2.1	2.1
Cobalt	ug/l	0.5	0.93	ND	ND	1.8	1.4	1.4	1.7	ND	ND	2.9	2.3		2.6	ND	1.6	1.6		1.6	1.6	1.6
Copper	ug/l	2.5	ND	ND	ND	ND	2.6	2.6	2.8	ND	ND	3.4	3.1		3.6	ND	ND	ND		ND	ND	ND
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND
Molybdenum	ug/l	0.5	1.3	1.6	1.6	2.8	1.8	2.8	2.9	1.4	3.2	3.7	2.8		3.9	6.2	5.9	6.1		6.1	6.1	6.1
Nickel	ug/l	4	12	ND	ND	21	17	17	27	5	11	35	20	33	4.8	22	13.4	13.4	13.4	13.4		
Selenium	ug/l	2	4.5	ND	ND	2.6	3.6	2	3.5	ND	ND	3.7	3.6	2.8	ND	2.9	2.9	2.9	2.9	2.9		
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vanadium	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	ug/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
pH	Units		7.4	7.3	7.3	7.3	7.3	7.3	7.2	7.4	7.2	7.1	7.2	7.1	7.2	7.2	7.3	7.3	7.3	7.3		
TDS	mg/l	10	4,800	4,800	4,800	4,500	4,725	4,500	8,200	7,300	8,800	7,800	8,025	7,400	5,500	5,800	5,650	5,650	5,650	5,650		
Chloride	mg/l	0.5	950	930	930	1,000	953	970	2,700	2,700	2,900	2,800	2,775	3,000	2,200	2,200	2,200	2,200	2,200	2,200		

Table 9

**Analytical Groundwater Results -- Fourth Quarter 2013 Event**  
**EPA Methods 8260 and 8270M**  
**Central Basin -- Alamos Generating Station**

Parameter	Well ID		AW-7 (Background)					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
Vinyl Chloride (VC)	ug/l	1	ND	ND	ND	ND		ND
Trichloroethene (TCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	ND	ND	ND	ND		ND

Parameter	Well ID		AW-9					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
Vinyl Chloride (VC)	ug/l	1	ND	ND	ND	ND		ND
Trichloroethene (TCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>1.9</b>	<b>3.1</b>	<b>0.69</b>	<b>2.4</b>	<b>2.0</b>	<b>2.7</b>

Parameter	Well ID		AW-20					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	<b>78</b>	<b>110</b>	<b>52</b>	<b>110</b>	<b>88</b>	<b>110</b>
Vinyl Chloride (VC)	ug/l	1	<b>1.8</b>	<b>1.7</b>	ND	3.2	<b>2.2</b>	<b>3.2</b>
Trichloroethene (TCE)	ug/l	1	<b>1.1</b>	<b>1.5</b>	<b>0.71</b>	<b>0.99</b>	<b>1.1</b>	<b>0.99</b>
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	<b>1.4</b>	<b>1.8</b>	<b>1</b>	<b>1.8</b>	<b>1.5</b>	<b>1.8</b>
1,4-Dioxane	ug/l	0.5	<b>3.2</b>	<b>3.6</b>	<b>1.9</b>	<b>2.9</b>	<b>2.9</b>	<b>2.9</b>

Parameter	Well ID		AW-21					
	Units	PQL	Date				Average	12/13
			12/12	3/13	6/13	9/13		
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	<b>4.5</b>	<b>4.5</b>	<b>3.3</b>	<b>5</b>	<b>4.3</b>	<b>5.8</b>
Vinyl Chloride (VC)	ug/l	1	ND	ND	ND	ND		ND
Trichloroethene (TCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>5.5</b>	<b>2.5</b>	<b>2</b>	<b>2</b>	<b>3.0</b>	<b>2.2</b>

Table 9

**Analytical Groundwater Results -- Fourth Quarter 2013 Event  
EPA Methods 8260 and 8270M  
Central Basin -- Alamos Generating Station**

Parameter	Well ID		AW-32					
	Units	PQL	Date					12/13
			12/12	3/13	6/13	9/13	Average	
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	NS	53	NS	71	62	NS
Vinyl Chloride (VC)	ug/l	1		ND		ND		
Trichloroethene (TCE)	ug/l	1		1.1		0.85	1.0	
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1		1.5		1.6	1.6	
1,4-Dioxane	ug/l	0.5		3.3		2.4	2.9	

Parameter	Well ID		AW-34					
	Units	PQL	Date					12/13
			12/12	3/13	6/13	9/13	Average	
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	2.6	2.5	2	3.3	2.6	3.8
Vinyl Chloride (VC)	ug/l	1	ND	ND	ND	ND		ND
Trichloroethene (TCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	0.5	0.55	ND	ND	0.5	ND

NS = Not Scheduled for Sampling

**Table 10**

**Groundwater Regulatory Exceedance  
Fourth Quarterly 2013 Event  
BCCB  
Alamitos Generating Station**

Parameter	Well ID		AW-41	AW-1	AW-3	AW-23	AW-25	AW-36	AW-37
	Units	Cal MCL							
Antimony	ug/L	6	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	10	ND	ND	2	ND	3.5	ND	ND
Barium	ug/L	1000	29	34	53	51	34	47	50
Beryllium	ug/L	4	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/L	5	ND	0.63	ND	ND	ND	ND	ND
Chromium, Total	ug/L	50	ND	ND	ND	ND	ND	ND	ND
Cobalt	ug/L	11**	1	1.9	2.1	6.1	3.1	3.1	4.9
Copper	ug/L	1300	ND	6.2	3.8	4.5	2.9	3.1	4.5
Lead	ug/L	15	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/L	180**	2.4	35	9.7	2.8	16	6.1	5.2
Nickel	ug/L	100	7.5	75	24	32	130	26	78
Selenium	ug/L	50	ND	3.1	6.4	3.1	4.2	3.3	3.9
Silver	ug/L	100	ND	ND	ND	ND	ND	ND	ND
Thallium	ug/L	2	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/L	180**	ND	ND	ND	ND	ND	ND	ND
Zinc	ug/L	5000	ND	ND	ND	ND	ND	ND	ND
pH	Units	6.5-8.5*	7.4	7.3	7.0	6.8	6.8	7.3	6.9
TDS	mg/L	500*	3,200	13,000	14,000	8,100	14,000	12,000	13,000
1,1-DCA	ug/L	5	0.51	ND	1.5	ND	ND	ND	ND
1,4-dioxane	ug/L	35***	7.2	ND	18	0.5	240	6.5	29

\* Secondary Standards  
 \*\* EPA Regional Screening Levels  
 \*\*\* Drinking Water Response Level

**Analytical Groundwater Results -- Fourth Quarter 2013 -- CAM Metals and General Mineral Parameters  
BCCB -- Alamos Generating Station**

Parameter	Well ID		AW-41 (Background)					AW-1					AW-2									
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13		
	Units	PQL																				
Antimony	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	Not Scheduled	ND	ND	ND	ND		ND		
Arsenic	ug/l	2	ND	ND	ND	2.8		ND	ND	ND	ND		ND		2.8			10	6.4			
Barium	ug/l	2.5	28	28	29	28	28	29	29	35	29	34	32		34	53			62	58		
Beryllium	ug/l	0.5	ND	ND	ND	ND		ND	ND	ND	ND		ND		ND			ND				
Cadmium	ug/l	0.5	ND	ND	ND	ND		ND	0.77	0.85	0.5	0.77	0.72		0.63	ND			ND			
Chromium, Total	ug/l	1	ND	ND	ND	1.1		ND	1	ND	ND	1.7	1.4		ND	ND			ND			
Cobalt	ug/l	0.5	1.1	ND	ND	1.2	1.2	1	1.4	0.5	ND	1.9	1.3		1.9	ND			0.75			
Copper	ug/l	2.5	ND	ND	ND	ND		ND	6.8	6	ND	6.6	6.5		6.2	ND			ND			
Lead	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND			ND			
Molybdenum	ug/l	0.5	3.7	0.8	0.7	1.3	1.6	2.4	35	17	24	28	26		35	2.2			3	2.6		
Nickel	ug/l	4	7.8	ND	ND	11	9.4	7.5	150	72	79	80	95		75	ND			ND			
Selenium	ug/l	2	ND	ND	ND	ND		ND	5	ND	ND	4	4.5		3.1	ND			ND			
Silver	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND			ND			
Thallium	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND			ND			
Vanadium	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND			ND			
Zinc	ug/l	10	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND			ND				
pH	Units		7.4	7.5	7.4	7.3	7.4	7.4	7.5	7.5	7.4	7.5	7.5	7.3	7.3			7.2	7.2			
TDS	mg/l	10	3,200	3,100	3,400	3,300	3,250	3,200	14,000	15,000	11,000	14,000	13,500	13,000	8,100			8,300	8,200			
Chloride	mg/l	0.5	900	840	980	980	925	1,000	6,400	6,800	4,600	5,800	5,900	5,900	3,400			3,300	3,350			

Parameter	Well ID		AW-3					AW-23					AW-25							
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL																		
Antimony	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Arsenic	ug/l	2	ND	2.4	ND	5.4	3.9	2	ND	ND	ND	ND		ND	4.3	4.6	ND	9.4	6.1	3.5
Barium	ug/l	2.5	50	59	55	54	55	53	52	59	60	55	57	51	35	37	31	34	34	34
Beryllium	ug/l	0.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Cadmium	ug/l	0.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Chromium, Total	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Cobalt	ug/l	0.5	1.5	ND	ND	ND		2.1	5.1	3.6	3.6	5.9	4.6	6.1	3.5	1.9	1.5	1.5	2.1	3.1
Copper	ug/l	2.5	3.9	ND	ND	ND		3.8	5.4	ND	2.6	5.9	4.6	4.5	4	ND	ND	ND		2.9
Lead	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	1.3	ND	ND		ND
Molybdenum	ug/l	0.5	8.3	8.4	7.4	8.6	8.2	9.7	3	2.6	2.4	2.7	2.7	2.8	19	19	17	17	18	16
Nickel	ug/l	4	25	6.8	7.8	14	13	24	30	11	12	43	24	32	130	99	100	120	112	130
Selenium	ug/l	2	6.3	ND	ND	ND		6.4	4.3	ND	ND	6.4	5.4	3.1	6.7	ND	ND	ND		4.2
Silver	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Thallium	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Vanadium	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
Zinc	ug/l	10	ND	ND	ND	ND		ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND
pH	Units		7.0	7.1	7.1	7.0	7.1	7.0	7.0	7.0	7.0	7.0	7.0	6.8	7.2	7.2	7.1	7.1	7.1	6.8
TDS	mg/l	10	14,000	15,000	15,000	14,000	14,500	14,000	9,600	8,700	11,000	8,900	9,550	8,100	13,000	12,000	12,000	13,000	12,500	14,000
Chloride	mg/l	0.5	6,600	7,300	6,600	5,900	6,600	7,500	2,800	3,200	3,300	3,200	3,125	3,000	5,300	4,600	4,300	4,500	4,675	5,200

**Analytical Groundwater Results -- Fourth Quarter 2013 -- CAM Metals and General Mineral Parameters  
BCCB -- Alamos Generating Station**

Parameter	Well ID		AW-36					AW-37					AW-42 (Background)								
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	
	Units	PQL																			
Antimony	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND		ND	Not Scheduled	ND	Not Scheduled	ND		ND	Not Scheduled	
Arsenic	ug/l	2	ND	ND	ND	ND		ND	ND	ND	ND		ND		4.2			6.6	5.4		
Barium	ug/l	2.5	48	52	29	57	47	47	46	46	46	49	47		50		63		60		62
Beryllium	ug/l	0.5	ND	ND	ND	ND		ND	ND	ND	ND		ND		ND			ND			
Cadmium	ug/l	0.5	ND	ND	ND	ND		ND	1.1	1.1	1	0.59	0.95		ND		ND		ND		
Chromium, Total	ug/l	1	ND	ND	ND	1.2		ND	ND	ND	ND	1.4			ND		ND		ND		
Cobalt	ug/l	0.5	2.1	1.4	ND	2.4	2.0	3.1	3.7	2	2	6.5	3.6		4.9		1.4		1.8		1.6
Copper	ug/l	2.5	4.4	ND	ND	3.4	3.9	3.1	7.7	4	3.8	6	5.4		4.5		ND		ND		
Lead	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND			ND		ND		ND		
Molybdenum	ug/l	0.5	4.7	4.1	12	7.6	7.1	6.1	7.7	7.4	7.4	6.8	7.3		5.2		1.5		1.5		1.5
Nickel	ug/l	4	24	11	4.9	25	16	26	79	82	58	110	82		78		4.5		11		7.8
Selenium	ug/l	2	5.5	ND	ND	2.8	4.2	3.3	19	ND	ND	5.6	12.3		3.9		ND		ND		
Silver	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND			ND		ND		ND		
Thallium	ug/l	1	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND		ND				
Vanadium	ug/l	2.5	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND		ND				
Zinc	ug/l	10	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND		ND				
pH	Units		7.3	7.3	7.5	7.4	7.4	7.3	6.9	7.1	7.1	7.1	7.0	6.9	7.2		7.1	7.2			
TDS	mg/l	10	12,000	13,000	4,000	9,900	9,725	12,000	14,000	13,000	14,000	14,000	13,750	13,000	5,100		5,400	5,250			
Chloride	mg/l	0.5	5,100	5,900	1,200	4,400	4,150	5,800	6,000	5,500	5,600	5,800	5,725	6,400	1,700		1,700	1,700			

Parameter	Well ID		AW-43					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
Antimony	ug/l	2.5		ND		ND		
Arsenic	ug/l	2		4		4.8	4.4	
Barium	ug/l	2.5		43		39	41	
Beryllium	ug/l	0.5		ND		ND		
Cadmium	ug/l	0.5		ND		ND		
Chromium, Total	ug/l	1		ND		1.9		
Cobalt	ug/l	0.5		0.8		3	1.9	
Copper	ug/l	2.5		ND		2.9		
Lead	ug/l	1		ND		ND		
Molybdenum	ug/l	0.5		2.6		2.9	2.8	
Nickel	ug/l	4		8.6		40	24	
Selenium	ug/l	2		ND		4.1		
Silver	ug/l	1		ND		ND		
Thallium	ug/l	1		ND		ND		
Vanadium	ug/l	2.5		ND		ND		
Zinc	ug/l	10		ND		ND		
pH	Units			7.3		7.3	7.3	
TDS	mg/l	10		7,100		7,700	7,400	
Chloride	mg/l	0.5		2,800		2,800	2,800	

Table 12

**Analytical Groundwater Results -- Fourth Quarter 3013 Event  
EPA Methods 8260 and 8270M  
BCCB -- Alamitos Generating Station**

Parameter	Well ID		AW-41 (Background)					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	0.76	ND		0.51
1,4-Dioxane	ug/l	0.5	3.6	2.3	8.6	5.7	5.1	7.2

Parameter	Well ID		AW-42 (Background)					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	NS	1.1	NS	0.75	0.93	NS
1,4-Dioxane	ug/l	0.5		29		27	28	

Parameter	Well ID		AW-1					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	ND	ND	ND	ND		ND

Parameter	Well ID		AW-2					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	NS	3.6	NS	2.5	3.1	NS
1,4-Dioxane	ug/l	0.5		15		15	15	

Parameter	Well ID		AW-3					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	1.4	1.4	0.82	1.2	1.5
1,4-Dioxane	ug/l	0.5	18	18	21	18	19	18

Parameter	Well ID		AW-23					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	0.7	0.72	ND	0.54	0.65	0.53

MS = Not Scheduled for Sampling

Table 12

**Analytical Groundwater Results -- Fourth Quarter 3013 Event  
EPA Methods 8260 and 8270M  
BCCB -- Alamitos Generating Station**

Parameter	Well ID		AW-25					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	110	120	85	150	116	240

Parameter	Well ID		AW-36					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	1.8	1.6	ND	2.2	1.9	6.5

Parameter	Well ID		AW-37					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	25	24	22	23	24	29

Parameter	Well ID		AW-43					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
1,1-Dichloroethane (1,1-DCA)	ug/l	1	NS	1.1	NS	ND	1.3	NS
1,4-Dioxane	ug/l	0.5		1.4		1.1		

MS = Not Scheduled for Sampling

**Table 13**

**Groundwater Regulatory Exceedance -- Fourth Quarter 2013 Event  
South Basin -- Alamos Generating Station**

Parameter	Well ID		AW-10	AW-11	AW-12	AW-27	AW-39
	Units	Cal MCL					
Antimony	ug/L	6	ND	ND	ND	ND	ND
Arsenic	ug/L	10	ND	ND	ND	ND	ND
Barium	ug/L	1000	39	33	66	25	55
Beryllium	ug/L	4	ND	ND	ND	ND	ND
Cadmium	ug/L	5	ND	1.1	ND	ND	2
Chromium, Total	ug/L	50	ND	ND	ND	ND	1.4
Cobalt	ug/L	11**	17	3.2	2.1	9.9	17
Copper	ug/L	1300	2.8	5.1	2.8	2.5	3.8
Lead	ug/L	15	ND	ND	ND	ND	ND
Molybdenum	ug/L	180**	1.1	3.5	5.2	13	18
Nickel	ug/L	100	26	32	19	21	55
Selenium	ug/L	50	2.7	3.4	4.2	2.6	5
Silver	ug/L	100	ND	ND	ND	ND	ND
Thallium	ug/L	2	ND	ND	ND	ND	ND
Vanadium	ug/L	180**	ND	ND	ND	ND	ND
Zinc	ug/L	5000	ND	ND	ND	ND	ND
pH	Units	6.5-8.5*	6.8	7.1	7.0	6.7	6.9
TDS	mg/L	500*	7,100	11,000	14,000	7,500	13,000
c-1,2-DCE	ug/L	6	ND	ND	19	ND	29
t-1,2-DCE	ug/L	10	ND	ND	ND	ND	2.9
1,4-Dioxane	ug/L	35***	ND	1.5	1	ND	ND
<p>* Secondary Standards  ** EPA Regional Screening Levels  *** Drinking Water Response Level</p>							

**Analytical Groundwater Results -- Fourth Quarter 2013 Event - CAM Metals and General Mineral Parameters  
South Basin -- Alamitos Generating Station**

Parameter	Well ID		AW-10 (Background)						AW-11						AW-12					
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL																		
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/l	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
Barium	ug/l	2.5	40	43	35	35	38	39	32	37	33	29	33	33	40	39	17	30	32	66
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	1	1.1	1	1.1	1.1	1.1	ND	ND	ND	ND	ND	ND
Chromium, Total	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ug/l	0.5	16	12	15	16	15	17	2	ND	0.55	3	1.9	3.2	1.2	ND	0.5	1.7	1.1	2.1
Copper	ug/l	2.5	2.5	ND	4.4	2.8	3.2	2.8	5.5	ND	ND	5.1	5.3	5.1	ND	ND	ND	ND	ND	2.8
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/l	0.5	0.85	1	ND	0.77	0.87	1.1	4.5	4.2	2.4	3.8	3.7	3.5	20	19	35	24	25	5.2
Nickel	ug/l	4	22	6.8	9.4	30	17	26	29	8.8	9.2	37	21	32	12	ND	ND	16	14	19
Selenium	ug/l	2	2.9	ND	ND	3.6	3.3	2.7	5.5	ND	ND	5.2	5.4	3.4	ND	ND	ND	2.5	ND	4.2
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ug/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH	Units		6.8	7.0	6.8	6.8	6.8	6.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0
TDS	mg/l	10	7,100	6,900	7,300	7,300	7,150	7,100	11,000	12,000	12,000	11,000	11,500	11,000	7,300	7,000	4,200	5,900	6,100	14,000
Chloride	mg/l	0.5	2,200	2,400	2,300	2,500	2,350	2,600	4,800	4,500	4,400	4,400	4,525	4,700	2,900	2,400	890	1,800	1,998	6,200

Parameter	Well ID		AW-27						AW-39 (Background)					
	Date		12/12	3/13	6/13	9/13	Average	12/13	12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL												
Antimony	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ug/l	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ug/l	2.5	21	32	15	19	22	25	30	44	26	34	34	55
Beryllium	ug/l	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ug/l	0.5	ND	ND	ND	ND	ND	ND	1.3	1.6	0.85	1.5	1.3	2
Chromium, Total	ug/l	1	ND	ND	ND	ND	ND	ND	1.7	1.4	ND	2	1.7	1.4
Cobalt	ug/l	0.5	11	7.6	11	13	10.7	9.9	10	10	2.7	5.5	7	17
Copper	ug/l	2.5	3.4	ND	ND	ND	ND	2.5	3.2	ND	ND	3.6	3.4	3.8
Lead	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	ug/l	0.5	12	17	9.7	10	12	13	9.3	12	6.6	11	9.7	18
Nickel	ug/l	4	23	10	17	28	20	21	54	36	33	62	46	55
Selenium	ug/l	2	2.5	ND	ND	2.4	2.5	2.6	4.2	ND	6.4	4.5	5.0	5
Silver	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ug/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ug/l	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ug/l	10	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND
pH	Units		6.5	6.7	6.5	6.5	6.6	6.7	6.7	6.8	6.6	6.6	6.7	6.9
TDS	mg/l	10	5,500	9,700	4,500	5,500	6,300	7,500	7,700	10,000	6,100	7,900	7,925	13,000
Chloride	mg/l	0.5	1,500	4,100	780	1,100	1,870	2,700	2,700	4,400	2,100	2,800	3,000	6,200

Table 15

**Analytical Groundwater Results -- Fourth Quarter 2013 Event  
EPA Methods 8260 and 8270M  
South Basin -- Alamitos Generating Station**

Parameter	Well ID		AW-10 (Background)					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>0.55</b>	<b>0.52</b>	ND	<b>0.54</b>	<b>0.54</b>	ND

Parameter	Well ID		AW-11					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>2.5</b>	<b>1.5</b>	<b>1.4</b>	<b>1.4</b>	<b>1.7</b>	<b>1.5</b>

Parameter	Well ID		AW-12					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	<b>2.8</b>	<b>2</b>	ND	<b>2.2</b>	<b>2.3</b>	<b>19</b>
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	<b>0.58</b>	ND	ND	ND		<b>1</b>

Parameter	Well ID		AW-27					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	ND	ND	ND	ND		ND
1,4-Dioxane	ug/l	0.5	ND	ND	ND	ND		ND

Parameter	Well ID		AW-39 (Background)					
	Date		12/12	3/13	6/13	9/13	Average	12/13
	Units	PQL						
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/l	1	<b>8.6</b>	<b>12</b>	<b>1.7</b>	<b>4.4</b>	<b>6.7</b>	<b>29</b>
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/l	1	<b>1.2</b>	<b>1.7</b>	ND	ND	<b>1.5</b>	<b>2.9</b>
1,4-Dioxane	ug/l	0.5	ND	ND	ND	ND		ND

**Table 16**

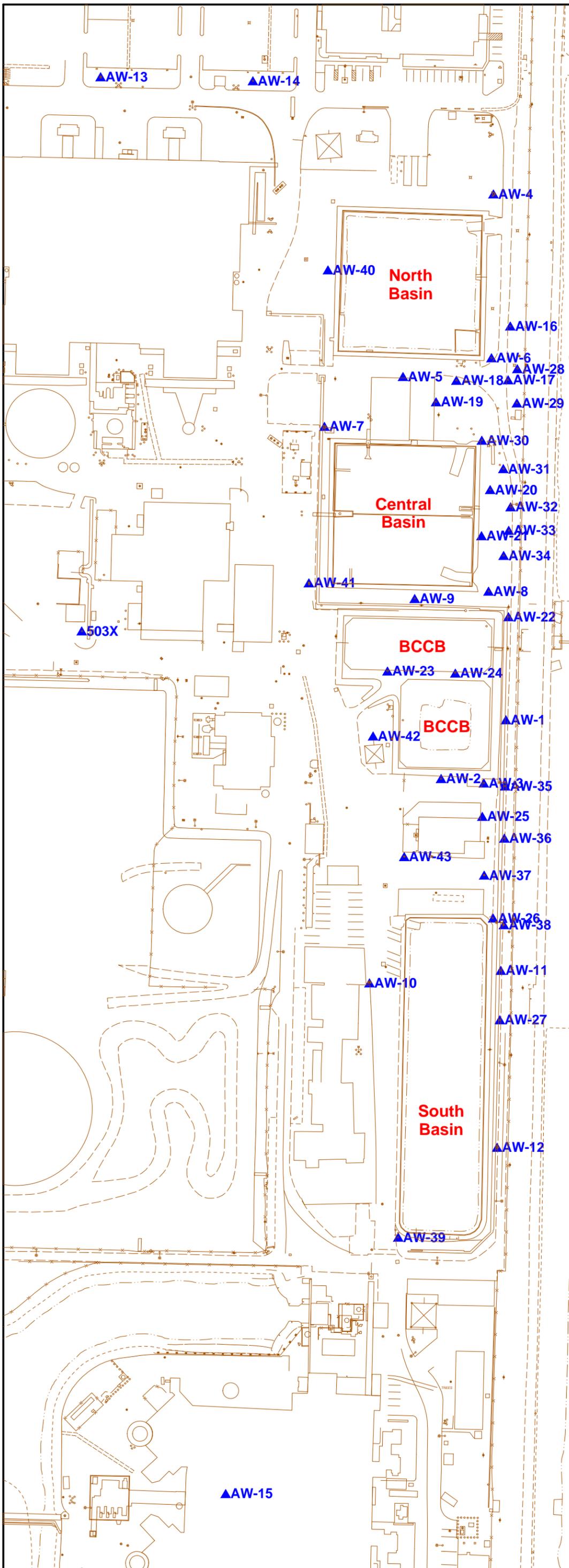
**Quality Control -- CAM Metals and General Mineral Parameters  
Alamitos Generating Station**

Parameter	Date		12/11/2013		
	Units	PQL	AW-25	AW-103	RPD
Antimony	ug/L	2.5	ND	ND	
Arsenic	ug/L	2	3.5	3.4	3
Barium	ug/L	2.5	34	33	3
Beryllium	ug/L	0.5	ND	ND	
Cadmium	ug/L	0.5	ND	ND	
Chromium, Total	ug/L	1	ND	ND	
Cobalt	ug/L	0.5	3.1	2.7	14
Copper	ug/L	2.5	2.9	2.6	11
Lead	ug/L	1	ND	ND	
Molybdenum	ug/L	0.5	16	15	6
Nickel	ug/L	4	130	130	0
Selenium	ug/L	2	4.2	4.3	2
Silver	ug/L	1	ND	ND	
Thallium	ug/L	1	ND	ND	
Vanadium	ug/L	2.5	ND	ND	
Zinc	ug/L	10	ND	ND	
pH	Units		6.8	6.9	1
TDS	mg/L	10	14,000	14,000	0
Chloride	ug/L	0.5	5,200	5,200	0

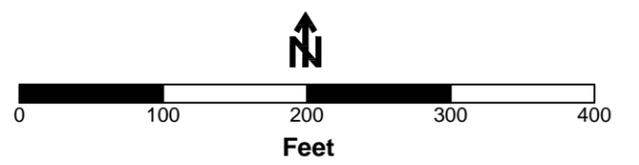
**Quality Control -- VOC -- EPA Methods 8260 and 8270M  
Alamitos Generating Station**

**Table 17**

Parameter	Well ID		12/11/2013						
	Units	PQL	Date	AW-25	AW-103	RPD	AW-101 Field Blank	AW-104 Field Blank	AW-102 Trip Blank
cis-1,2-Dichloroethene (c-1,2-DCE)	ug/L	1		ND	ND		ND	ND	ND
Vinyl Chloride (VC)	ug/L	1		ND	ND		ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	ug/L	1		ND	ND		ND	ND	ND
Tetrachloroethene (PCE)	ug/L	1		ND	ND		ND	ND	ND
Chloroform	ug/L	1		ND	ND		ND	ND	ND
Trichloroethene (TCE)	ug/L	1		ND	ND		ND	ND	ND
Isopropylbenzene	ug/L	1		ND	ND		ND	ND	ND
Toluene	ug/L	1		ND	ND		ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)	ug/L	1		ND	ND		ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	ug/L	1		ND	ND		ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	ug/L	1		ND	ND		ND	ND	ND
1,1-Dichloropropene	ug/L	1		ND	ND		ND	ND	ND
1,1,1-Trichloroethane	ug/L	1		ND	ND		ND	ND	ND
1,4-Dioxane	ug/L	0.5		240	290	19	ND	ND	ND
Chlorobenzene	ug/L	1		ND	ND		ND	ND	ND
Bromochloromethane	ug/L	1		ND	ND		ND	ND	ND
1,2,3-Trichlorobenzene	ug/L	1		ND	ND		ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	1		ND	ND		ND	ND	ND
Hexachlorobutadiene	ug/L	1		ND	ND		ND	ND	ND
Naphthalene	ug/L	1		ND	ND		ND	ND	ND
Acetone	ug/L	10		ND	ND		ND	ND	ND
Chloromethane	ug/L	1		ND	ND		ND	ND	ND
Bromoform	ug/L	1		ND	ND		ND	ND	ND
Bromobenzene	ug/L	1		ND	ND		ND	ND	ND
Dibromochloromethane	ug/L	1		ND	ND		ND	ND	ND



▲ Location of Groundwater Monitoring Wells



**Figure 3**  
**Location of Groundwater Monitoring Wells**  
**Alamitos Generating Station**

**Figure 3**

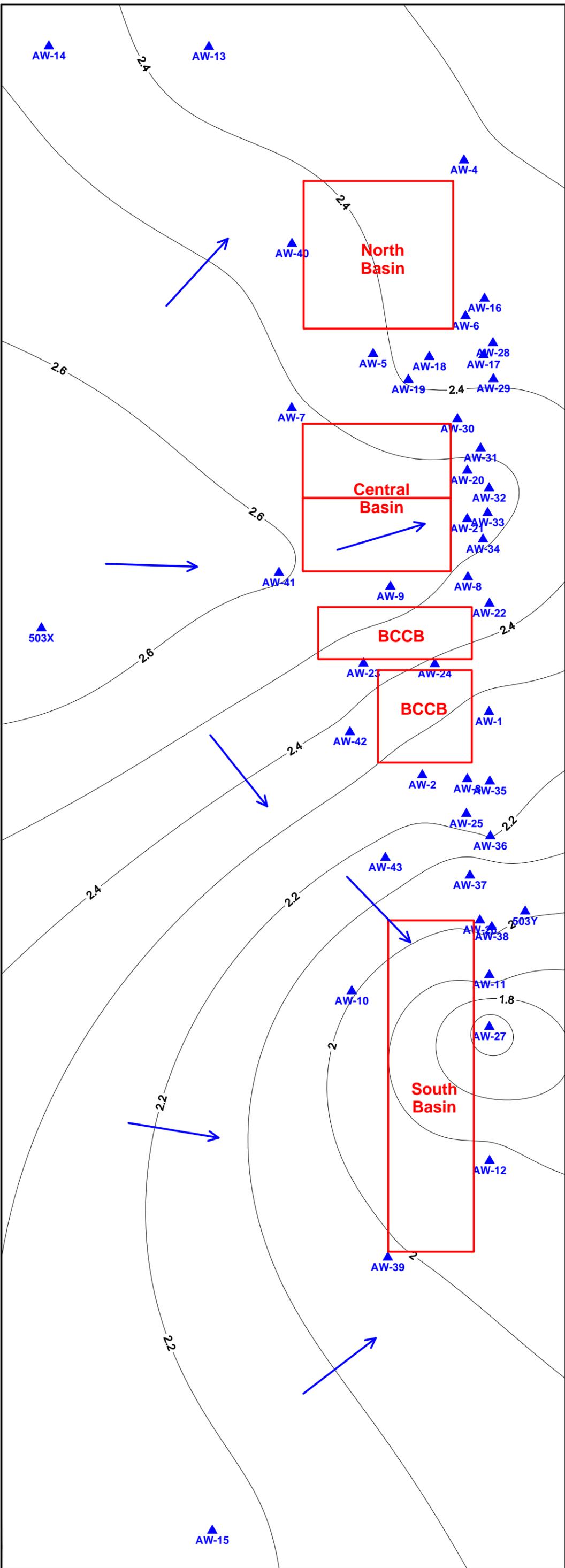
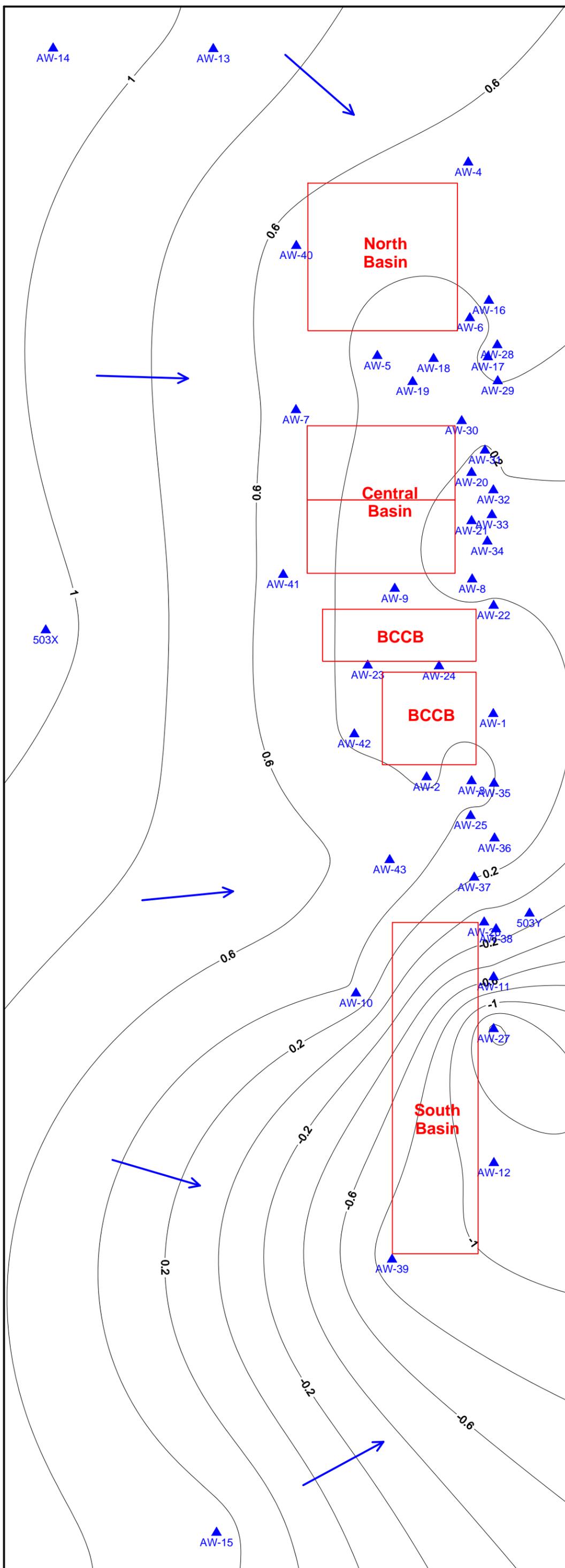


Figure 4

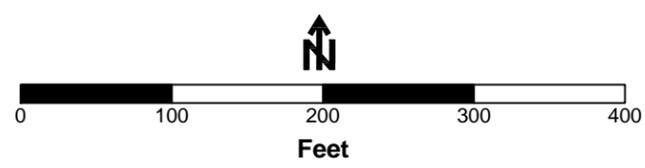
**Figure 4**  
**Groundwater Elevation -- 2/27/13**  
**Alamitos Generating Station**

Figure 5



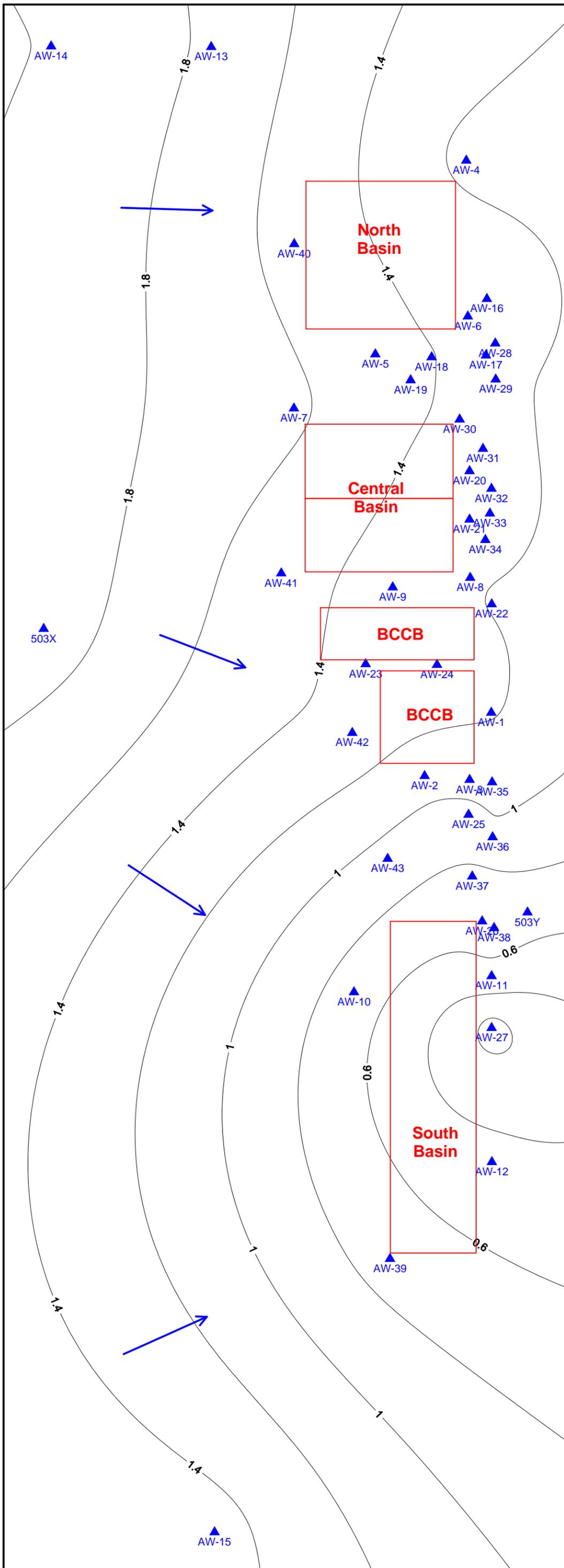
- ▲ Location of Groundwater Monitoring Wells
- Retention Basin
- Groundwater Flow Direction

Contour Interval = 0.2 feet of elevation



**Figure 5**  
**Groundwater Elevation -- 6/5/13**  
**Alamos Generating Station**

Figure 6



▲ Location of Groundwater Monitoring Wells  
□ Retention Basin  
→ Groundwater Flow Direction  
Contour Interval = 0.2 feet of elevation

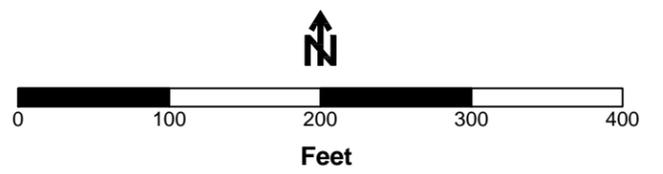
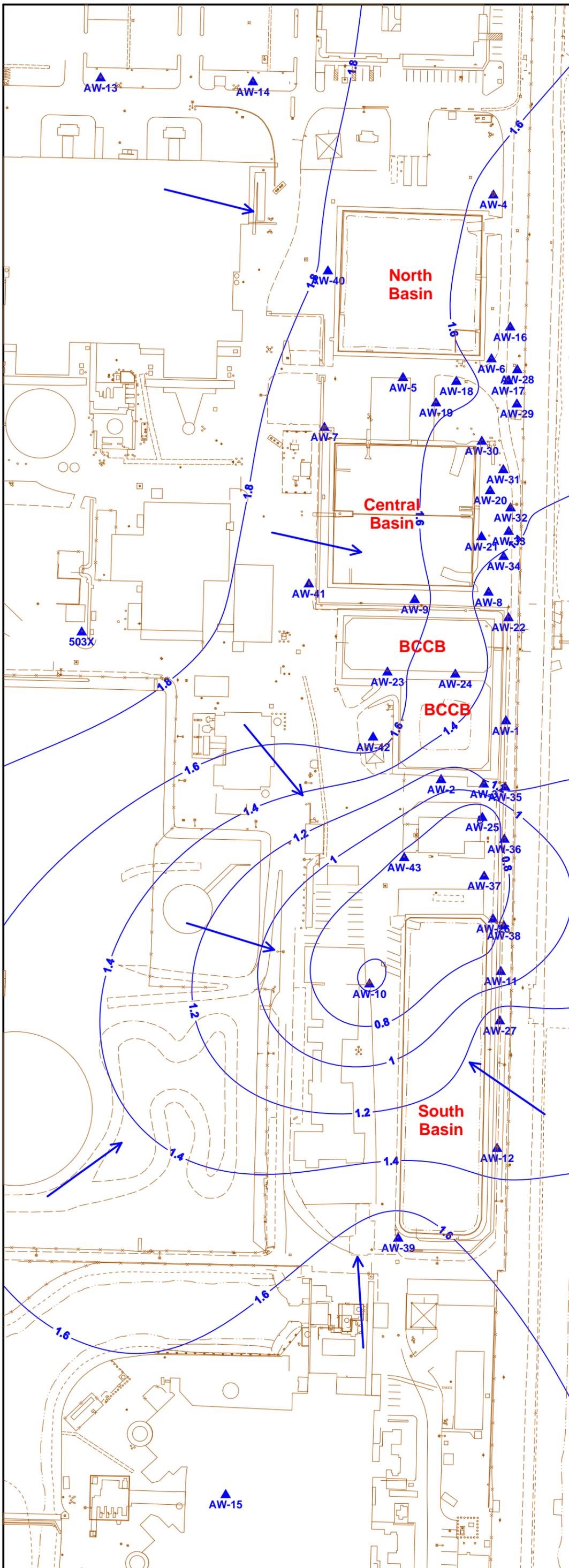


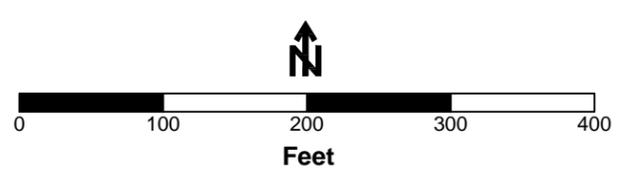
Figure 6  
Groundwater Elevation -- 9/8/13  
Alamos Generating Station



▲ Location of Groundwater Monitoring Wells

→ Groundwater Flow Direction

Contour Interval = 0.2 feet of elevation



**Figure 7**  
**Groundwater Elevation -- 12/10/13**  
**Alamitos Generating Station**

**Figure 7**



Matthew Rodriguez  
Secretary for  
Environmental Protection



## Department of Toxic Substances Control

Deborah O. Raphael, Director  
9211 Oakdale Avenue  
Chatsworth, California 91311



Edmund G. Brown Jr.  
Governor

January 31, 2012

Mr. Randall Weidner  
Southern California Edison  
1218 S. Fifth Avenue  
Monrovia, CA 91016

TECHNICAL COMPLETENESS FOR DRAFT CLOSURE DEMONSTRATION REPORT  
SOUTHERN CALIFORNIA EDISON COMPANY, ALAMITOS GENERATING STATION,  
RETENTION BASIN SITE, LOS ANGELES COUNTY, CALIFORNIA, SEPTEMBER  
2011, 690 NORTH STUDEBAKER ROAD, LONG BEACH, CA 90803  
EPA ID NUMBER CAD 009 694 795

Dear Mr. Weidner:

The Department of Toxic Substances Control's Brownfields and Environmental Restoration Program (BERP) has reviewed the revised draft Closure Demonstration Report, dated September 2011, for the Facility located at 690 North Studebaker Road, Long Beach, California.

As a result of this review, DTSC hereby determines your draft closure demonstration report as technically complete. Although the draft closure demonstration report is considered technically complete, DTSC may request additional information when necessary to clarify, modify, or supplement previously submitted information. DTSC plans to issue a public notice to the draft Closure Plan on Thursday, February 2, 2012.

Should you have any questions regarding this project, please contact me at 818-717-6602.

Sincerely,

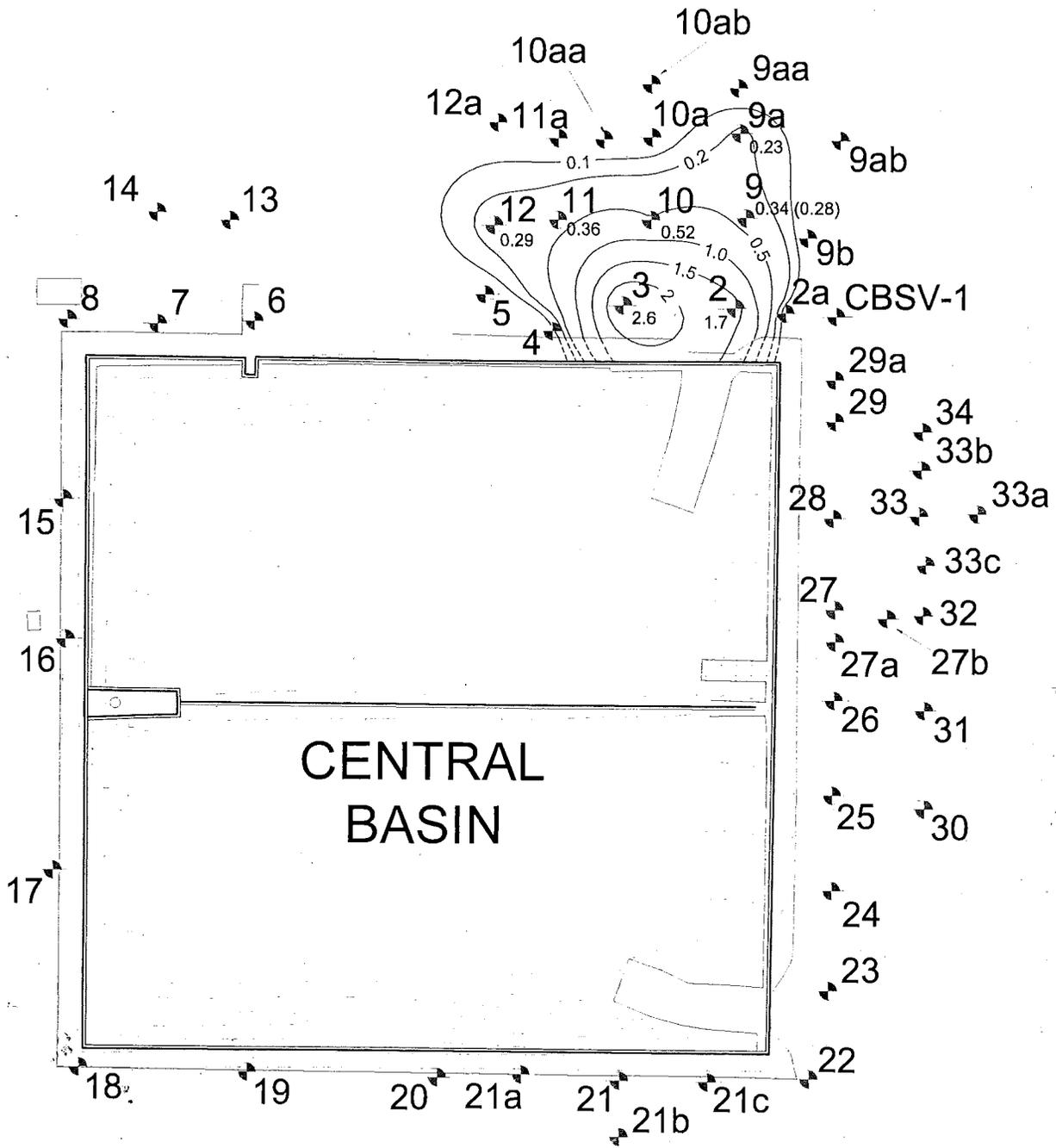
Steve Rounds  
Hazardous Substances Engineer  
Brownfields and Environmental Restoration Program

Mr. Randall Weidner  
January 31, 2012  
Page 2

cc: Steve Maghy  
AES Southland LLC  
690 N. Studebaker Rd.  
Long Beach, CA 90803

Dennis Jamison  
Jamison & Associates, Inc.  
PO Box 34802  
Reno, NV 89533

Christine Bucklin, P.G. – DTSC Cypress (via electronic mail)  
Jose Marcos, P.G. – DTSC Cypress (via electronic mail)  
Shukla Roy-Semmen, Ph.D. – DTSC Cypress (via electronic mail)



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALS
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALS
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- PCE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT

**Project Action Levels**

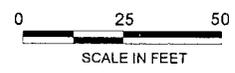
PCE 0.18

**Definitions**

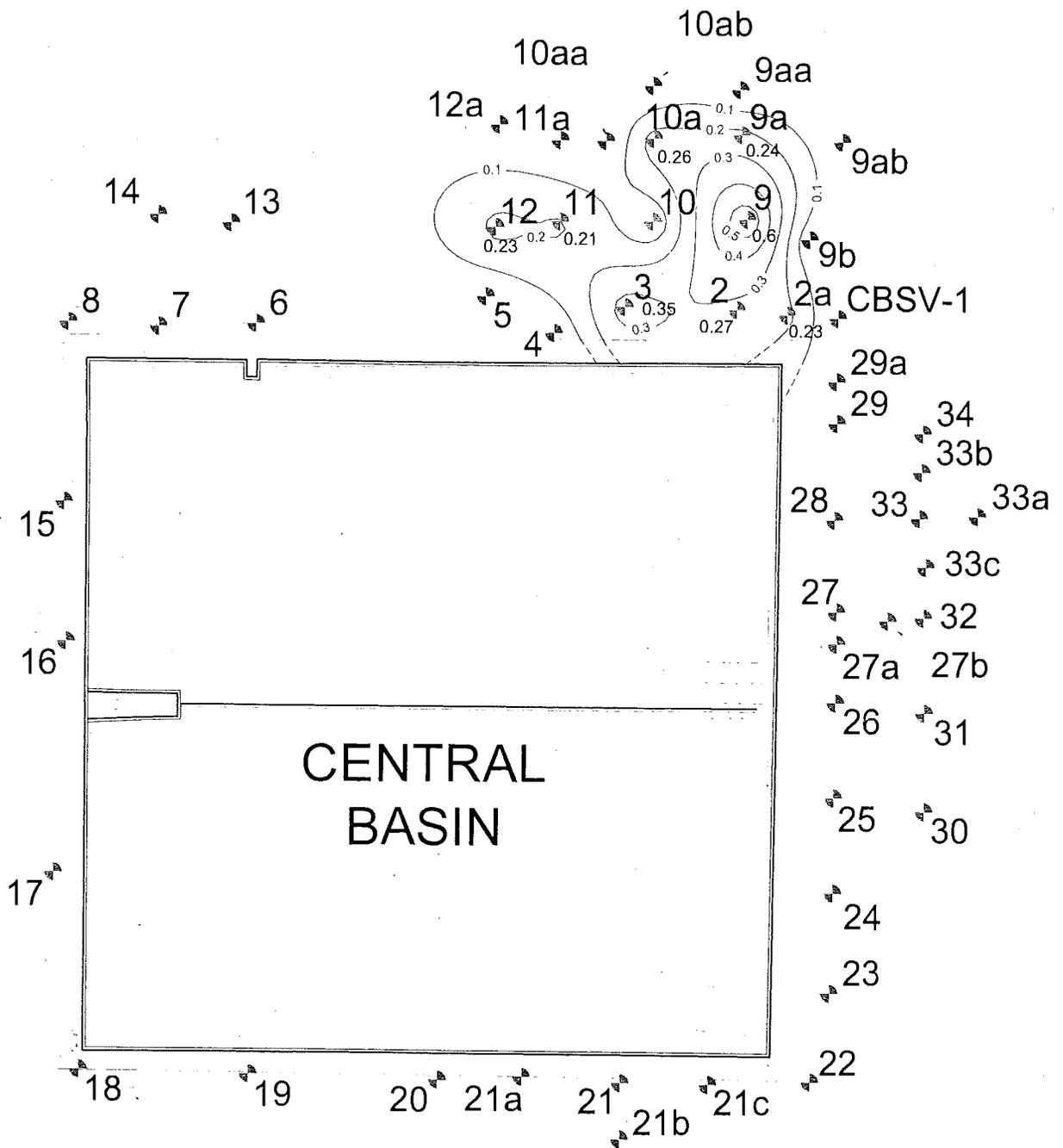
- bgs below ground surface
- CBSV Central Basin Soil Vapor
- µg/L micrograms per liter
- PAL project action level
- PCE Tetrachloroethene

**Notes**

- All data presented in µg/L
- Duplicate samples results are in parentheses



<b>FIGURE 8</b>	
<b>SHALLOW PCE CONCENTRATION CONTOUR MAP - CENTRAL BASIN</b>	
<b>PREPARED BY:</b>	ALAMITOS GENERATING STATION, RETENTION BASIN SITE
	4-10-13
TETRA TECH, INC.	A. KANOLD J. FELTS



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALS
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALS
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- PCE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT



Project Action Levels

PCE 0.18

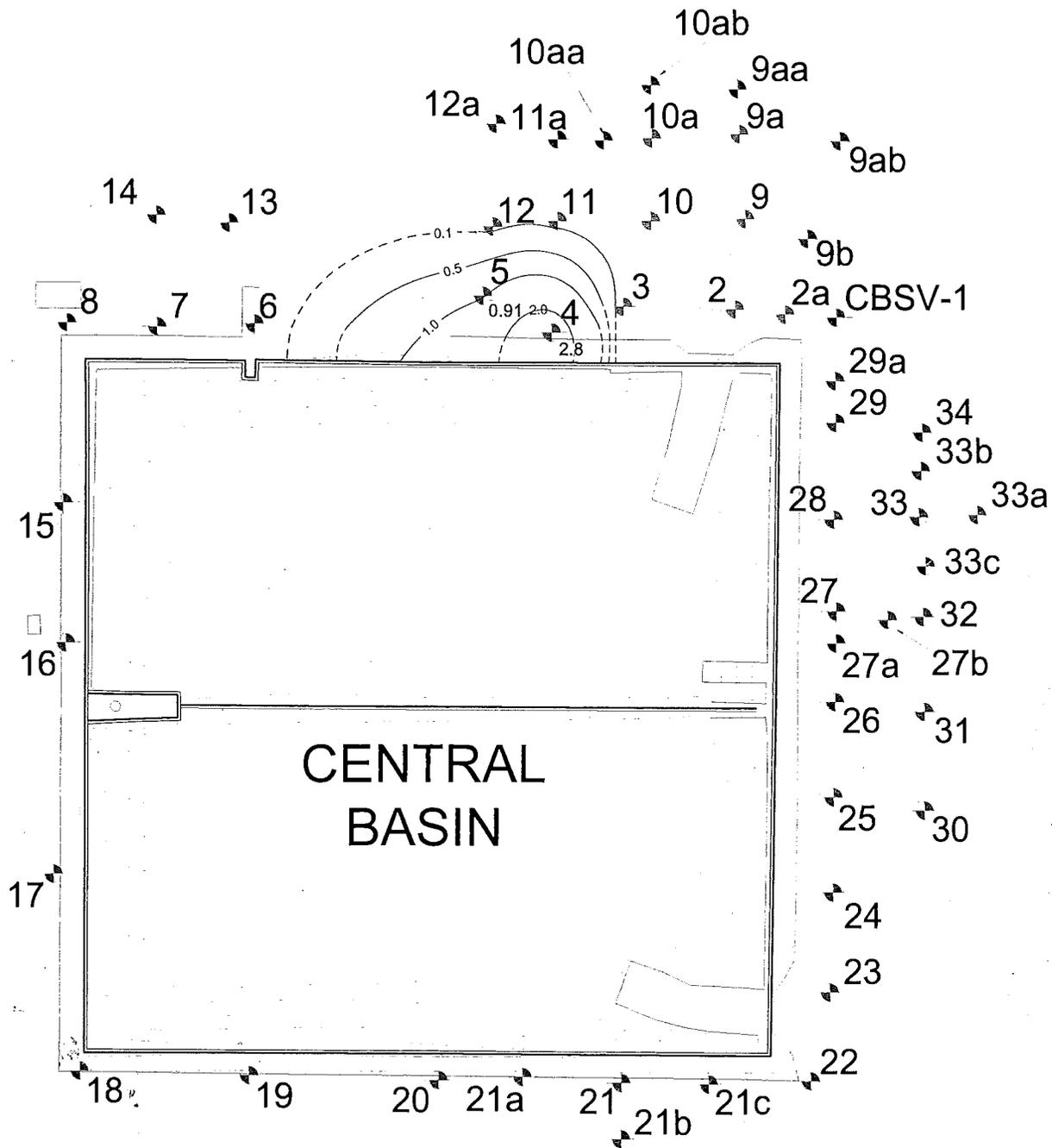
Notes

All data presented in µg/L  
Duplicate samples results are in parentheses

Definitions

bgs below ground surface  
CBSV Central Basin Soil Vapor  
µg/L micrograms per liter  
PAL project action level  
PCE Tetrachloroethene

FIGURE 9		
DEEP PCE CONCENTRATION CONTOUR MAP CENTRAL BASIN		A. KANGOLD
		J. FELTS
PREPARED BY: TETRA TECH, INC.	ALAMITOS GENERATING STATION, RETENTION BASIN SITE	4-10-13



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALS
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALS
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- TCE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT

**Project Action Levels**

TCE 0.527

**Definitions**

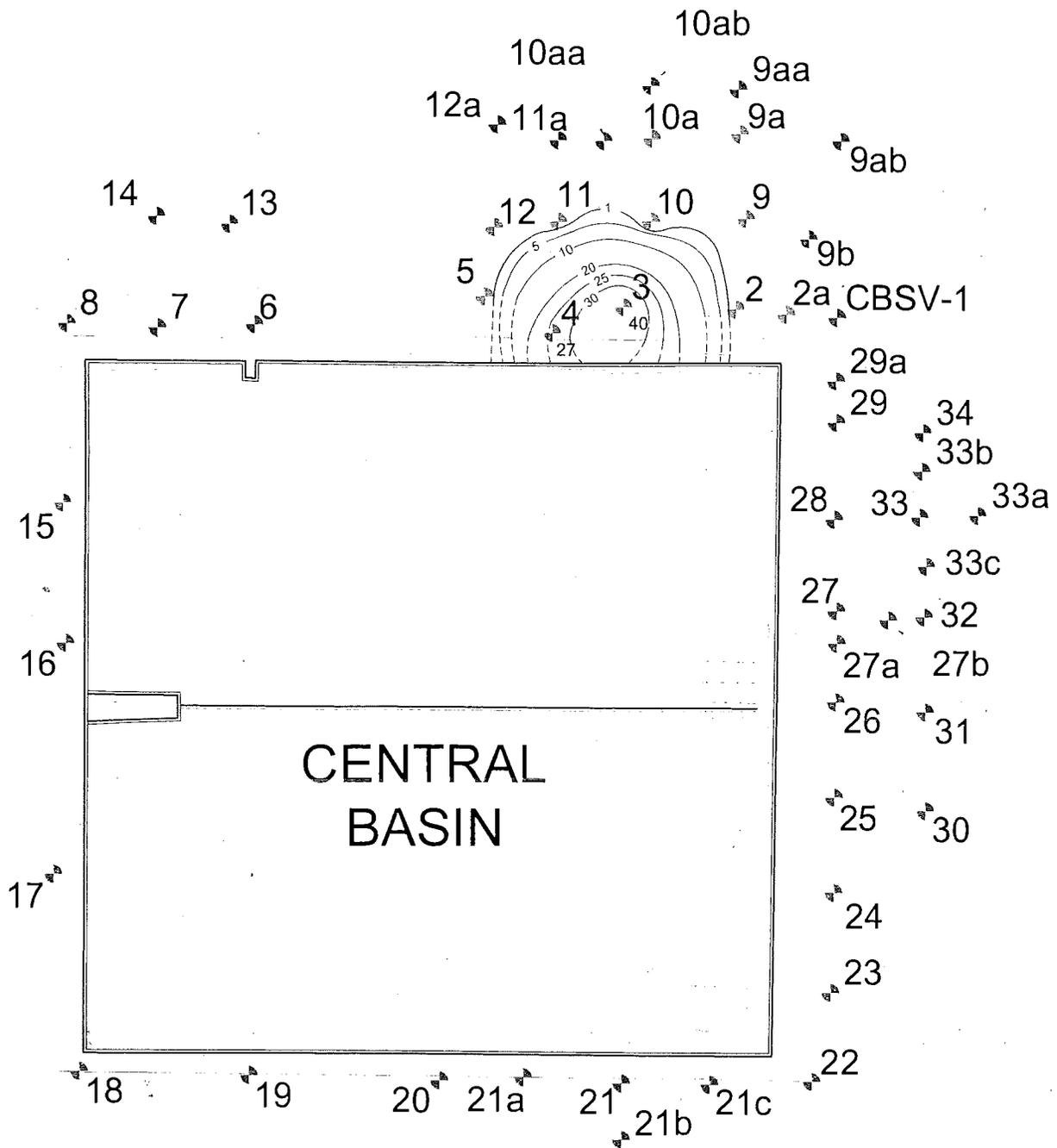
bgs below ground surface  
 CBSV Central Basin Soil Vapor  
 µg/L micrograms per liter  
 PAL project action level  
 TCE Trichloroethene

**Notes**

All data presented in µg/L  
 Duplicate samples results are in parentheses

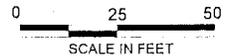


FIGURE 10		
DEEP TCE CONCENTRATION CONTOUR MAP CENTRAL BASIN		A. KAHOLD
		J. FELTS
PREPARED BY:	ALAMITOS GENERATING STATION, RETENTION BASIN SITE	4-10-13
TETRA TECH, INC.		



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALS
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALS
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- 0.2 cis-1,2-DCE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT

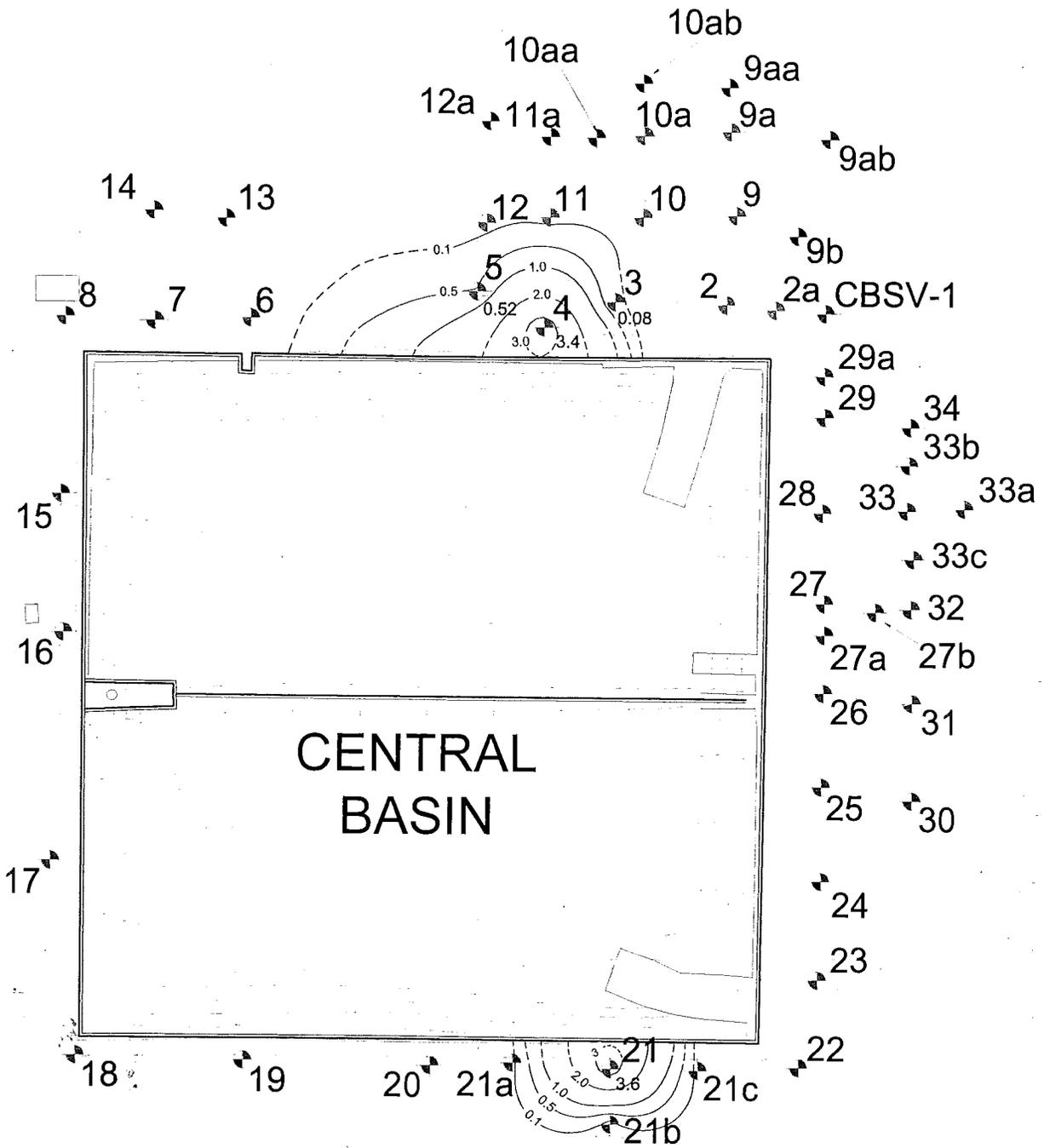


**Project Action Levels**  
cis-1,2-DCE 15.9

**Definitions**  
bgs below ground surface  
DCE Dichloroethene  
CBSV Central Basin Soil Vapor  
µg/L micrograms per liter  
PAL project action level

**Notes**  
All data presented in µg/L  
Duplicate samples results are in parentheses

FIGURE 11		
DEEP cis-DCE CONCENTRATION CONTOUR MAP CENTRAL BASIN		A. KANOLD
		J. FELTS
PREPARED BY	ALAMITOS GENERATING STATION, RETENTION BASIN SITE	4-10-13
TETRA TECH, INC.		



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALs
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALs
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- VC CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT

**Project Action Levels**

Vinyl Chloride                      0.0133

**Definitions**

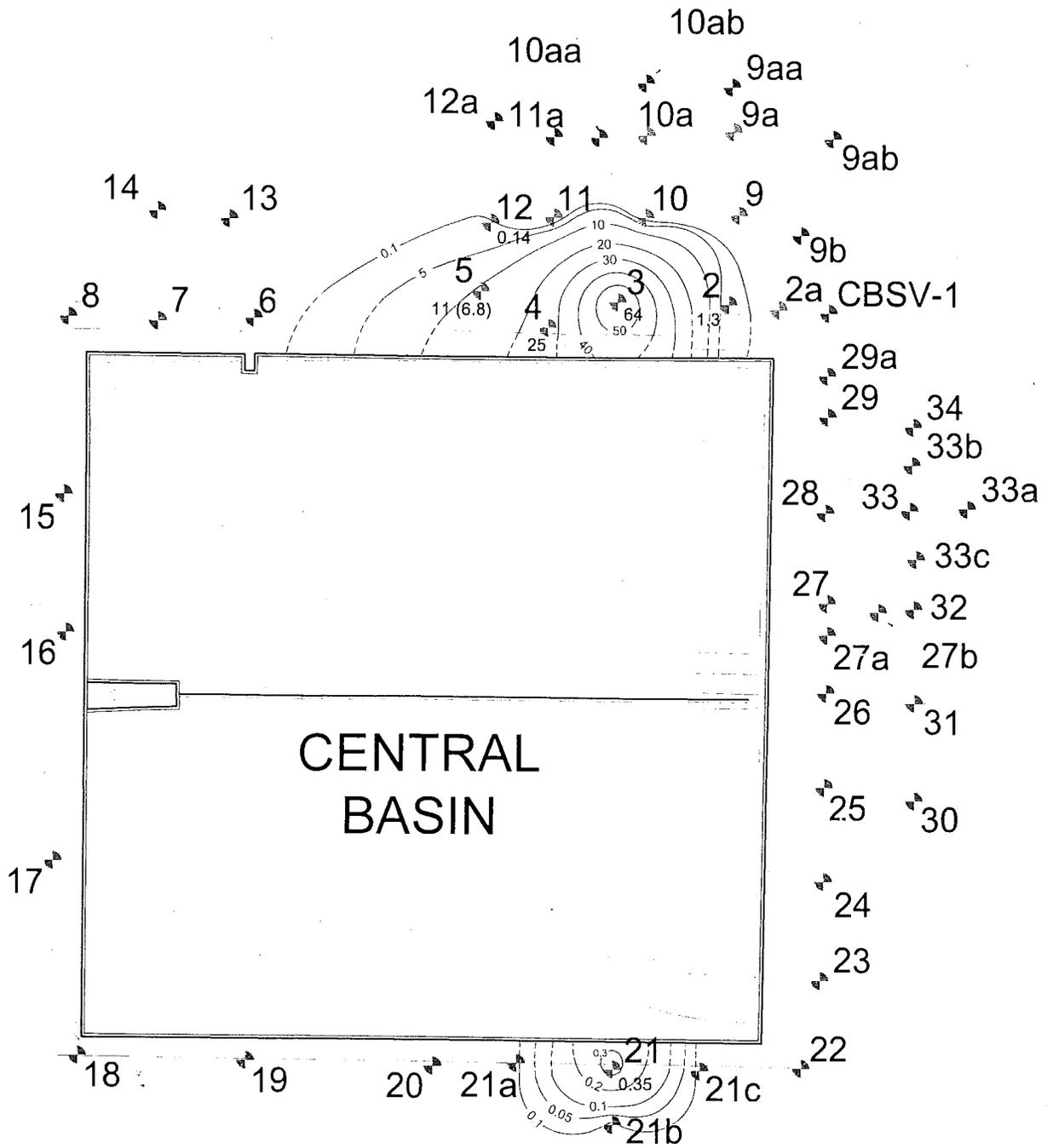
bgs            below ground surface  
 CBSV        Central Basin Soil Vapor  
 µg/L        micrograms per liter  
 PAL         project action level  
 VC          Vinyl Chloride

**Notes**

All data presented in µg/L  
 Duplicate samples results are in parentheses



<b>FIGURE 12</b>	
<b>SHALLOW VC CONCENTRATION CONTOUR MAP CENTRAL BASIN</b>	
PREPARED BY:	ALAMITOS GENERATING STATION, RETENTION BASIN SITE
	4-10-13
TETRA TECH, INC	



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALs
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALs
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- VC CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT



Project Action Levels

Vinyl Chloride 0.0133

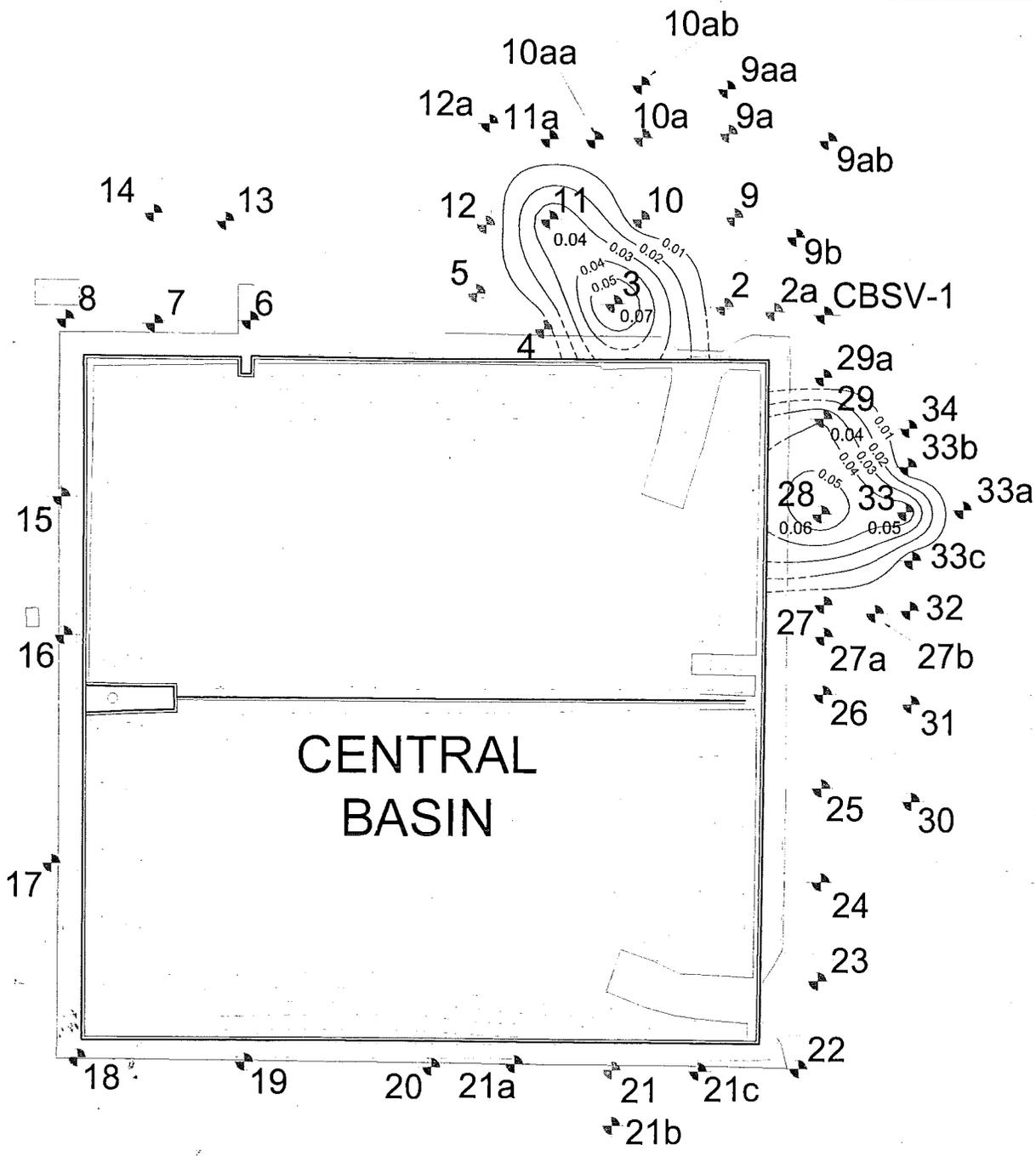
Definitions

bgs below ground surface  
 CBSV Central Basin Soil Vapor  
 µg/L micrograms per liter  
 PAL project action level  
 VC Vinyl Chloride

Notes

All data presented in µg/L  
 Duplicate samples results are in parentheses

FIGURE 13		
DEEP VC CONCENTRATION CONTOUR MAP CENTRAL BASIN		A. KAHOLD
		J. FELTS
PREPARED BY:	ALAMITOS GENERATING STATION, RETENTION BASIN SITE	4-10-13



**LEGEND:**

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALs
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALs
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- BENZENE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT

**Project Action Levels**

Benzene 0.0362

**Definitions**

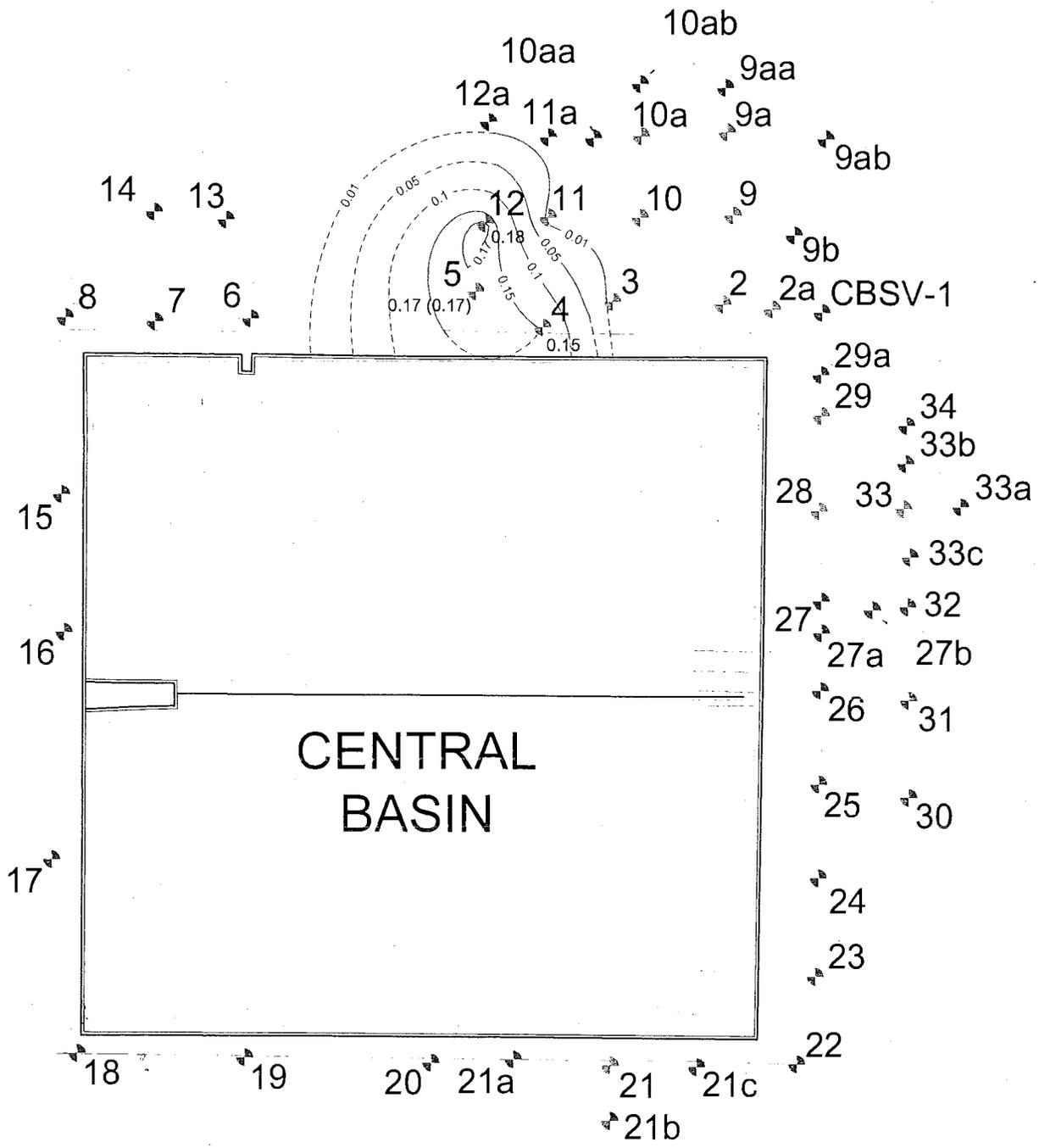
- bgs below ground surface
- CBSV Central Basin Soil Vapor
- µg/L micrograms per liter
- PAL project action level

**Notes**

All data presented in µg/L  
Duplicate samples results are in parentheses



<b>FIGURE 14</b>					
<b>DEEP BENZENE CONCENTRATION CONTOUR MAP - CENTRAL BASIN</b>					
<b>PREPARED BY:</b> TETRA TECH, INC.	<b>ALAMITOS GENERATING STATION, RETENTION BASIN SITE</b>				
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">A. KANOLD</td> <td style="width: 50%;">4-10-13</td> </tr> <tr> <td>J. FELTS</td> <td></td> </tr> </table>		A. KANOLD	4-10-13	J. FELTS	
A. KANOLD	4-10-13				
J. FELTS					



LEGEND:

- SOIL VAPOR PROBE, RESULTS LOWER THAN PALS
- SOIL VAPOR PROBE, RESULTS HIGHER THAN PALS
- ELEVATION CONTOUR
- FENCE
- VEGETATION
- NAPHTHALENE CONTOUR, FROM SURFER
- INTERPOLATED CONTOUR, HAND DRAWN BASED ON PROFESSIONAL JUDGEMENT



Project Action Levels

Naphthalene 0.0319

Definitions

bgs below ground surface  
 CBSV Central Basin Soil Vapor  
 µg/L micrograms per liter  
 PAL project action level

Notes

All data presented in µg/L  
 Duplicate samples results are in parentheses

FIGURE 15		
DEEP NAPHTHALENE CONCENTRATION CONTOUR MAP - CENTRAL BASIN		A. KANOLD
		J. FELTS
PREPARED BY	ALAMITOS GENERATING STATION, RETENTION BASIN SITE	4-10-13

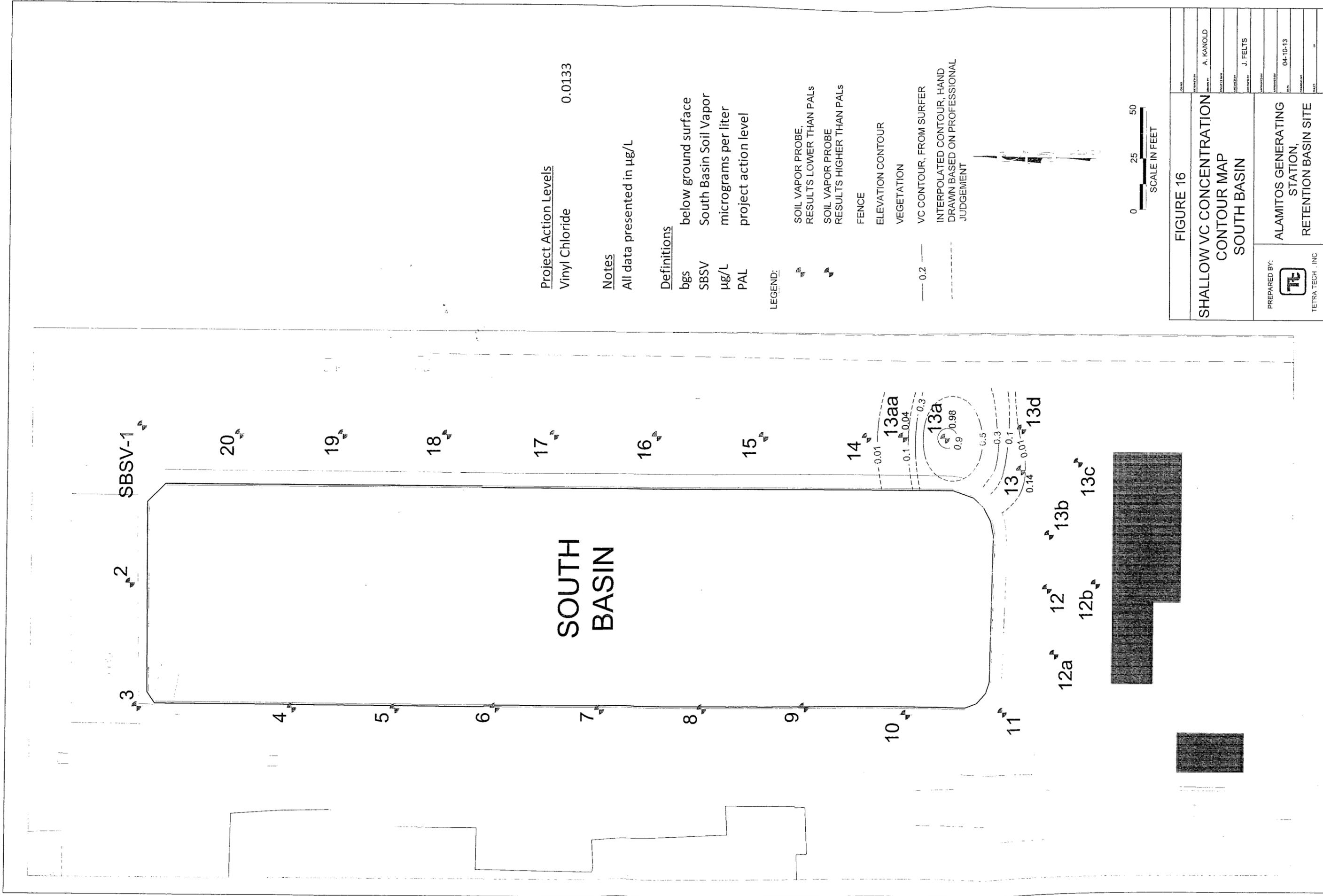


FIGURE 16

SHALLOW VC CONCENTRATION  
 CONTOUR MAP  
 SOUTH BASIN

PREPARED BY:



TETRA TECH, INC

ALAMITOS GENERATING  
 STATION,  
 RETENTION BASIN SITE

DATE	
DESIGNED BY	A. KANOLD
CHECKED BY	
APPROVED BY	J. FELTS
PROJECT NO.	04-10-13
DATE	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	
SCALE	

Table 3

**Summary of Soil Data -- Metal Parameters  
Alamitos Generating Station**

Feature	Background		North Basin		Central Basin		BCCB		South Basin		Pipelines	
Number of Samples	54		90		162		52		105		229	
	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum
Parameter	mg/kg											
Antimony	0.85	1.8	0.83	3.30	1.02	5.14	0.92	2.71	0.80	6.36	0.64	1.5
Arsenic	7.8	26	6.9	29	6.8	15.5	6	12.8	7.3	66	6.0	24
Barium	147	250	139	210	143	290	135	214	135	823	119	240
Beryllium	0.53	0.95	0.47	0.88	0.51	0.97	0.45	1.10	0.45	0.70	0.39	0.8
Cadmium	0.24	0.44	0.25	0.71	0.27	0.65	0.24	1.15	0.21	0.70	0.15	0.36
Chromium, Total	28	45	23	35	25	52	25	89	24	163	21	130
Chromium VI	ND	ND	ND	ND	ND	ND	3.6	3.6	ND	ND	NT	NT
Cobalt	11	19	9.2	18.2	11.3	38.8	9.2	19.3	9.9	46	8.0	20
Copper	28	51	24	41	25	44	31	424	47	2,600	23	220
Lead	8.5	23	7.5	66	9.1	46	9.9	40	15.3	270	5.9	13
Mercury	0.044	0.120	0.050	0.180	0.056	0.200	0.055	0.160	0.086	0.550	0.039	0.48
Molybdenum	1.9	7.7	1.5	7.2	3.5	25.5	4.2	29.2	3.1	71	2.2	12
Nickel	22	38	27	232	83	1,500	31	359	70	1,020	33	460
Selenium	0.57	0.7	0.54	0.57	0.40	1.20	0.51	0.51	0.66	0.92	0.55	0.6
Silver	0.13	0.19	0.30	1.71	0.16	0.36	0.47	2.82	0.42	1.6	0.14	0.16
Thallium	ND	ND	0.51	0.51	ND	ND	0.17	0.82	0.18	0.86	ND	ND
Vanadium	53	79	47	87	56	130	46	151	99	3,410	53	1000
Zinc	67	110	60	180	66	104	64	360	69	500	48	180

Table 4

**Summary of Detections -- Volatile Organic Compounds  
Alamitos Generating Station**

Background Area 1 -- 5 of 12 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Benzene	5.9	6.8	4
Toluene	5.6	5.8	3
Acetone	30	39	2

Background Area 2 -- 2 of 12 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Benzene	8.2	8.2	1
Toluene	6.6	8.1	2

Background Area 3 -- 0 of 12 samples Detected VOCs			
--	--	--	--

Background Area 4 -- 5 of 18 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Acetone	29	37	5

North Basin -- 9 of 90 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Benzene	5.2	5.2	1
Ethylbenzene	5.3	5.3	1
m,p-Xylene	32	32	1
Toluene	12	12	1
Acetone	29	46	8
2-Butanone	6.7	7	2
o-Xylene	21	21	1
1,3,5-Trimethylbenzene	14	14	1
1,2,4-Trimethylbenzene	39	39	1
Naphthalene	16	16	1

Table 4

**Summary of Detections -- Volatile Organic Compounds  
Alamitos Generating Station**

Central Basin -- 25 of 162 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Trichloroethene (TCE)	96	370	11
Tetrachloroethene (PCE)	2,545	5,800	4
1,1,1-Trichloroethane (1,1,1-TCA)	1,304	2,600	2
1,1-Dichloroethene (1,1-DCE)	5.7	5.7	1
cis-1,2-Dichloroethene (C-1,2-DCE)	149	1,000	12
trans-1,2-Dichloroethene (t-1,2-DCE)	4.6	5.5	2
1,1-Dichloroethane (1,1-DCA)	70	96	2
Vinyl Chloride	13	13	1
Benzene	5.4	5.5	3
Toluene	43	130	10
m/p-Xylene	3	3	1
o-Xylene	6.6	6.6	1
Chlorobenzene	5.6	7.9	2
1,3,5-Trimethylbenzene	34	34	1
1,2,4-Trimethylbenzene	36	36	1
n-Propylbenzene	4.4	4.4	1
1,2-Dichlorobenzene (o-DCB)	49	49	1
1,4-Dichlorobenzene (p-DCB)	5.1	5.1	1
Acetone	28	38	3
2-Butanone	8.5	11	3

BCCB -- 7 of 52 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Benzene	11.1	19	5
Toluene	9.7	11	3
m,p-Xylene	5.9	5.9	1
Acetone	78.5	190	4
2-Butanone	16.9	51	5

Table 4

**Summary of Detections -- Volatile Organic Compounds  
Alamitos Generating Station**

South Basin -- 30 of 105 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Benzene	9.5	56	21
Ethylbenzene	8.7	8.7	1
Toluene	11.5	53	13
m,p-Xylene	9.2	9.2	1
Acetone	32.9	93	25
2-Butanone	7.3	19	17
cis-1,2DCE	6.5	6.8	2
TCE	5.6	6.2	2

Pipelines -- 188 of 229 samples Detected VOCs			
Parameter	Average	Maximum	Number of Detections
Trichloroethene (TCE)	12	12	1
Tetrachloroethene (PCE)	9.4	16	4
cis-1,2-Dichloroethene (C-1,2-DCE)	15	15	1
1,1-Dichloroethane (1,1-DCA)	10	10	1
Benzene	8.3	27	39
Toluene	8.8	25	28
Isopropylbenzene	7.9	9	2
n-Propylbenzene	19	19	1
1,2,4-Trimethylbenzene	21	27	2
4-Methyl-2-pentanone	6.7	6.7	1
m/p-Xylene	5.4	5.4	2
Naphthalene	14.1	17	4
n-Propylbenzene	14	17	2
m-Dichlorobenzene (m-DCB)	12	12	1
o-Dichlorobenzene (o-DCB)	23.7	61	8
p-Dichlorobenzene (p-DCB)	16	16	1
p-Isopropyltoluene	10.6	14	2
sec-Butylbenzene	7.3	8.1	3
Acetone	35.5	310	176
2-Butanone	10.5	24	23



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### Compliance

**Facility ID**            115394  
**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

### Notices Of Violation

Notice Number	Notice Issue Date	Violation Date	Disposition Date	Disposition
<a href="#">P55527</a>	5/31/2012	5/1/2011		
<a href="#">P51971</a>	4/29/2011	3/20/2011	11/3/2011	Closed Case
<a href="#">P16433</a>	11/16/2000	10/31/2000	7/19/2001	Closed Case
<a href="#">P51967</a>	6/11/2010	11/2/2009	10/28/2010	Closed Case
<a href="#">P51952</a>	7/24/2008	5/4/2004	4/8/2009	Closed Case



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### Notices To Comply

Notice Number	Violation Date	Re-Inspection Date	Status
<a href="#">C 61677</a>	1/24/2002	2/10/2000	In Compliance
<a href="#">C61659</a>	2/8/2001	2/15/2001	In Compliance
<a href="#">C61677</a>	1/25/2002	2/11/2002	In Compliance
<a href="#">C61679</a>	8/23/2002	8/23/2002	In Compliance
<a href="#">C61681</a>	9/13/2002	9/20/2002	In Compliance
<a href="#">C61684</a>	11/19/2002	12/18/2002	In Compliance
<a href="#">C61697</a>	10/8/2003	10/14/2003	In Compliance
<a href="#">D04836</a>	4/28/2011	7/6/2011	In Compliance
<a href="#">D04840</a>	3/8/2013	8/9/2013	In Compliance
<a href="#">D04842</a>	3/21/2012	10/11/2012	In Compliance
<a href="#">D04843</a>	3/21/2012	8/9/2013	In Compliance
<a href="#">D04862</a>	3/12/2008	8/7/2008	In Compliance
<a href="#">D04872</a>	11/19/2009	5/19/2010	In Compliance
<a href="#">E16974</a>	11/15/2012	11/30/2012	In Compliance



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### Equipment List

**Facility ID**            115394  
**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

Appl Nbr	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
<a href="#">559347</a>		Basic	FACILITY PERMIT AMEND-RECLAIM/TITLE V	12/24/2013	APPLICATION CANCELLED
<a href="#">559395</a>		Basic	Oil/Water Separator (>=10,000 GPD)	12/24/2013	APPLICATION CANCELLED
<a href="#">559396</a>		Basic	Oil/Water Separator (>=10,000 GPD)	12/24/2013	APPLICATION CANCELLED
<a href="#">559397</a>		Basic	Oil/Water Separator (>=10,000 GPD)	12/24/2013	APPLICATION CANCELLED
<a href="#">559349</a>		Basic	STORAGE TANK AMMONIA	12/24/2013	APPLICATION CANCELLED
<a href="#">559351</a>		Basic	STORAGE TANK AMMONIA	12/24/2013	APPLICATION CANCELLED
<a href="#">559378</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559380</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559381</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559382</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559383</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559384</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559385</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559386</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559387</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559388</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559390</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559392</a>		Basic	TURBINE ENGINE (>50 MW) OTHER FUEL	12/24/2013	APPLICATION CANCELLED
<a href="#">559350</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559352</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559353</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559354</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559355</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559356</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559357</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED



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**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

Appl Nbr	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
<a href="#">559358</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559360</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559374</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559376</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">559377</a>		Control	SELECTIVE CATALYTIC REDUCTION	12/24/2013	APPLICATION CANCELLED
<a href="#">555656</a>		Basic	TV/RECLAIM REVISION-NOEVAL	8/23/2013	APPLICATION CANCELLED
<a href="#">549420</a>		Basic	TITLE V PERMIT RENEWAL APPLICATION	4/9/2013	BANKING/ PLAN GRANTED
<a href="#">540647</a>		Basic	TITLE V PERMIT ADMIN-AMENDMENT	7/17/2012	ASSIGNED TO ENGINEER - CLASS III
<a href="#">526783</a>		Basic	TV/RECLAIM REVISION-NOEVAL	8/31/2011	BANKING/ PLAN GRANTED
<a href="#">513592</a>		Basic	TITLE V PERMIT ADMIN-AMENDMENT	8/11/2010	APPLICATION REJECTED
<a href="#">506464</a>		Basic	RULE 1415 PLAN NOTIFICATIONS	2/3/2010	BANKING/ PLAN GRANTED
<a href="#">478037</a>		Basic	RULE 1415 PLAN NOTIFICATIONS	2/12/2008	BANKING/ PLAN GRANTED
<a href="#">468907</a>		Basic	RULE 1415 PLAN NOTIFICATIONS	5/8/2007	BANKING/ PLAN GRANTED
<a href="#">426078</a>		Basic	TITLE V PERMIT RENEWAL APPLICATION	2/13/2004	BANKING/ PLAN GRANTED
<a href="#">423721</a>		Basic	TITLE V PERMIT ADMIN-AMENDMENT	12/19/2003	BANKING/ PLAN GRANTED
<a href="#">423724</a>		Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	12/19/2003	APPLICATION REJECTED
<a href="#">423725</a>		Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	12/19/2003	APPLICATION REJECTED
<a href="#">423726</a>		Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	12/19/2003	APPLICATION REJECTED
<a href="#">423727</a>		Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	12/19/2003	APPLICATION REJECTED
<a href="#">423728</a>		Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	12/19/2003	APPLICATION REJECTED
<a href="#">408703</a>		Basic	I C E (>500 HP) EM FIRE FGHT-NAT GAS	11/14/2002	APPLICATION CANCELLED
<a href="#">408728</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)	11/13/2002	PERMIT TO OPERATE GRANTED
<a href="#">408708</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/13/2002	PERMIT TO OPERATE GRANTED
<a href="#">408704</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/13/2002	PERMIT TO OPERATE GRANTED
<a href="#">408705</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/13/2002	PERMIT TO OPERATE GRANTED

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**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

Appl Nbr	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
<a href="#">408706</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/13/2002	PERMIT TO OPERATE GRANTED
<a href="#">408707</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/13/2002	PERMIT TO OPERATE GRANTED
<a href="#">408702</a>		Basic	FACILITY PERMIT AMEND-RECLAIM/TITLE V	11/13/2002	BANKING/ PLAN GRANTED
<a href="#">396552</a>		Basic	TITLE V PERMIT ADMIN-AMENDMENT	1/16/2002	BANKING/ PLAN GRANTED
<a href="#">396558</a>		Basic	Title V Permit Revision	1/16/2002	APPLICATION REJECTED
<a href="#">396415</a>		Basic	R2009-POWER FAC PLANS	1/15/2002	BANKING/ PLAN GRANTED
<a href="#">393523</a>		Basic	BOILER UTILITY (>50 MW)	11/28/2001	APPLICATION CANCELLED
<a href="#">390641</a>		Basic	R2009-POWER FAC PLANS	9/5/2001	APPLICATION DENIED
<a href="#">377587</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	12/8/2000	PERMIT TO OPERATE GRANTED
<a href="#">376639</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	11/15/2000	PERMIT TO OPERATE GRANTED
<a href="#">376484</a>	ACTIVE	Basic	STORAGE TANK W/ VAPOR CONTROL AMMONIA	11/7/2000	PERMIT TO OPERATE GRANTED
<a href="#">376483</a>		Basic	Title V Permit Revision	11/7/2000	BANKING/ PLAN GRANTED
<a href="#">376486</a>		Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/7/2000	APPLICATION CANCELLED
<a href="#">376487</a>		Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	11/7/2000	APPLICATION CANCELLED
<a href="#">372947</a>	ACTIVE	Basic	STORAGE TANK W/ VAPOR CONTROL AMMONIA	7/25/2000	PERMIT TO OPERATE GRANTED
<a href="#">372946</a>	ACTIVE	Basic	STORAGE TANK W/ VAPOR CONTROL AMMONIA	7/25/2000	PERMIT TO OPERATE GRANTED
<a href="#">372944</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	7/25/2000	PERMIT TO OPERATE GRANTED
<a href="#">372945</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	7/25/2000	PERMIT TO OPERATE GRANTED
<a href="#">372949</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	7/25/2000	PERMIT TO OPERATE GRANTED
<a href="#">372941</a>		Basic	Title V Permit Revision	7/25/2000	BANKING/ PLAN GRANTED
<a href="#">372943</a>		Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	7/25/2000	APPLICATION CANCELLED
<a href="#">372948</a>		Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	7/25/2000	APPLICATION CANCELLED
<a href="#">340009</a>		Basic	INITIAL TITLE V PERMIT APPLICATION	4/27/1998	BANKING/ PLAN GRANTED
<a href="#">339186</a>	INACTIVE	Basic	BOILER (<5 MMBTU/HR) NAT GAS ONLY	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339188</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	3/3/1998	PERMIT TO OPERATE GRANTED



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**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

Appl Nbr	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
<a href="#">339189</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339191</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339192</a>	ACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339193</a>	INACTIVE	Basic	BOILER UTILITY (>50 MW)NAT.GAS/RESID.OIL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339198</a>	INACTIVE	Basic	BULK LOAD TANK TRUCK (1 RACK) GASOLINE	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339177</a>	INACTIVE	Basic	I C E (>500 HP) EM FIRE FGHT-NAT GAS	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339195</a>	ACTIVE	Basic	STORAGE TANK AMMONIA	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339197</a>	ACTIVE	Basic	STORAGE TANK PETROLEUM MIDDLE DISTILLATE	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339161</a>	ACTIVE	Basic	SUMP, CONTAINMENT	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339162</a>	ACTIVE	Basic	SUMP, CONTAINMENT	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339175</a>	ACTIVE	Basic	SUMP, CONTAINMENT	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339207</a>	ACTIVE	Basic	SUMP, CONTAINMENT	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339203</a>	INACTIVE	Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339200</a>	INACTIVE	Basic	TURBINE ENGINE (>50 MW) EL PEAK N G-DIST	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339205</a>	INACTIVE	Basic	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339206</a>	INACTIVE	Basic	TURBINE ENGINE (>50 MW) ELE PEAK GAS-RES	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339173</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339170</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339171</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339163</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339165</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339166</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339168</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339174</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358291</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED



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### Equipment List

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**Company Name**        AES ALAMITOS, LLC  
**Address**                690 N STUDEBAKER RD  
                               LONG BEACH, CA 90803

Appl Nbr	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
<a href="#">358292</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358293</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358294</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358295</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358296</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358297</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">358298</a>	INACTIVE	Control	NEGATIVE AIR MACHINE/HEPA,ASBES <=15 GAL	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339203</a>	INACTIVE	Control	NOX CONTROL OTHER	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339205</a>	INACTIVE	Control	NOX CONTROL OTHER	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339206</a>	INACTIVE	Control	NOX CONTROL OTHER	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339179</a>	ACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339181</a>	INACTIVE	Control	SELECTIVE CATALYTIC REDUCTION	3/3/1998	PERMIT TO OPERATE GRANTED
<a href="#">339196</a>	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	3/3/1998	PERMIT TO OPERATE GRANTED



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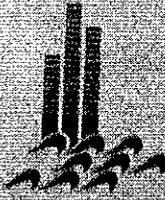


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FILE



**JOINT POWERS AGENCY  
LONG BEACH/SIGNAL HILL**

United Program Agency

2525 Grand Avenue • Long Beach, California 90815 • (562) 570-4128

May 13, 2003

Mr. Steve Maghy  
AES Alamos, LLC  
690 Studebaker Road  
Long Beach, California 90803

Regarding: Underground Storage Tank Removal located at 690 Studebaker  
Long Beach, California

Dear Mr. Maghy:

This letter confirms the completion of the removal of three (3) underground storage tanks on April 1, 2003, formerly located at the above-described location.

Based on the information in the above referenced file and with the provision of information provided to this agency was accurate and representative of site conditions, no further action related to the removal is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of the California Code of Regulations.

Please contact me at 562/570-4128 if you have any questions regarding this matter.

Sincerely,

Jeff Benedict, R.E.H.S., M.P.A.  
Hazardous Waste Operations Officer

cc: Long Beach Fire Prevention Bureau  
Mark Four Environmental

**APPENDIX K**

**ASTM E 1527-13 USER QUESTIONNAIRE**

690 North Studebaker Road, Long Beach, Ca 90803

E 1527 – 13  
USER QUESTIONNAIRE

INTRODUCTION

To qualify for one of the *Landowner Liability Protections (LLPs)*<sup>1</sup> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “*Brownfields Amendments*”),<sup>2</sup> the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that “*all appropriate inquiry*” is not complete.

**(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

Response: Yes, 1995 Consent Decree from DTSC for SCE.

**(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26(a)(1)(v) and (vi)).**

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Response: None, that I am aware of.

**(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Response Yes

**(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).**

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Response: N/A

---

<sup>1</sup> Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability (“Common Elements” Guide) issued on March 6, 2003.

<sup>2</sup> P.L. 107-118

**(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).**

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

(a.) Do you know the past uses of the *property*?

Response: Yes

(b.) Do you know of specific chemicals that are present or once were present at the *property*?

Response: Yes, some of them

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?

Response: Yes, some of them

(d.) Do you know of any environmental cleanups that have taken place at the *property*?

Response: Yes, some of them

**(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

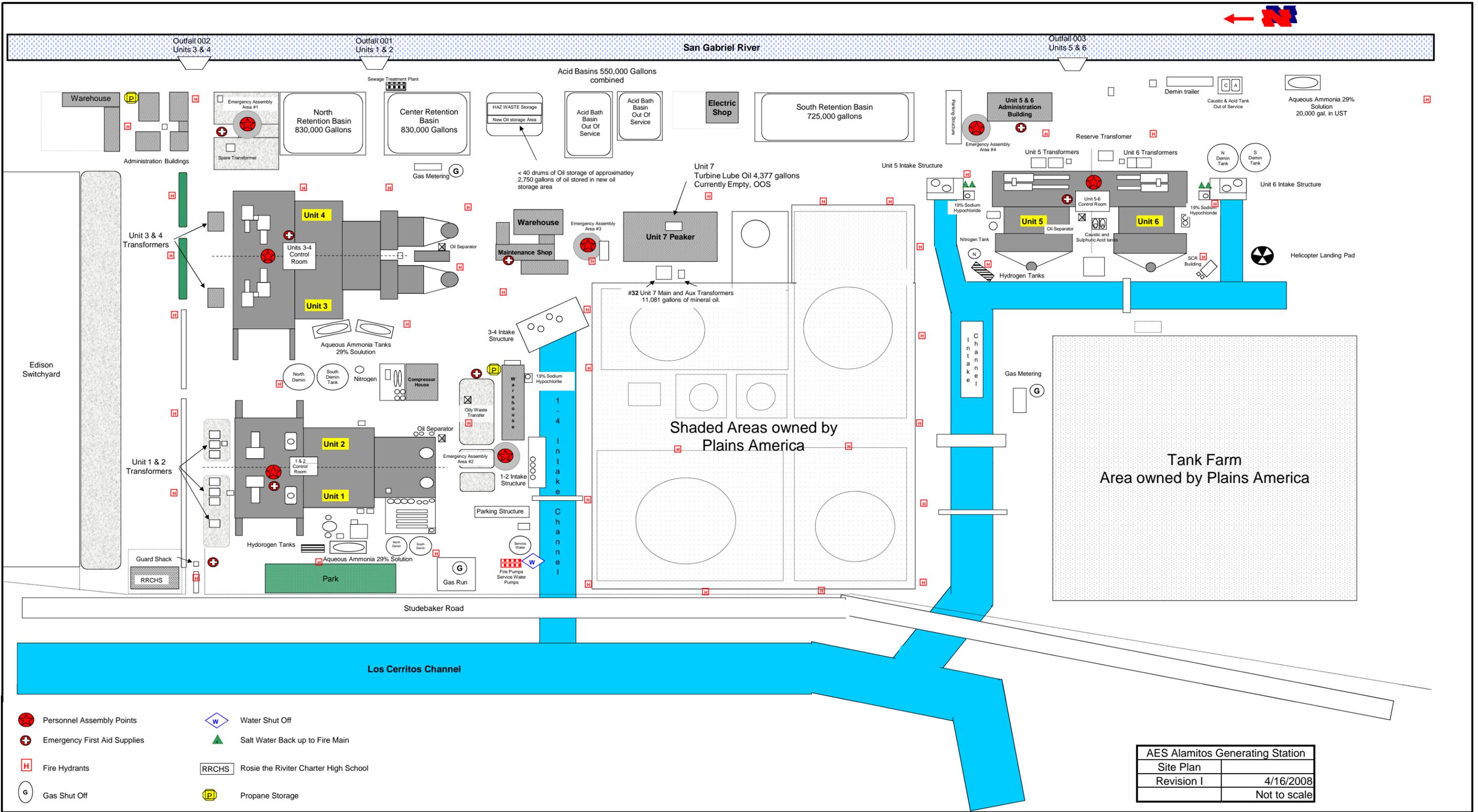
As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

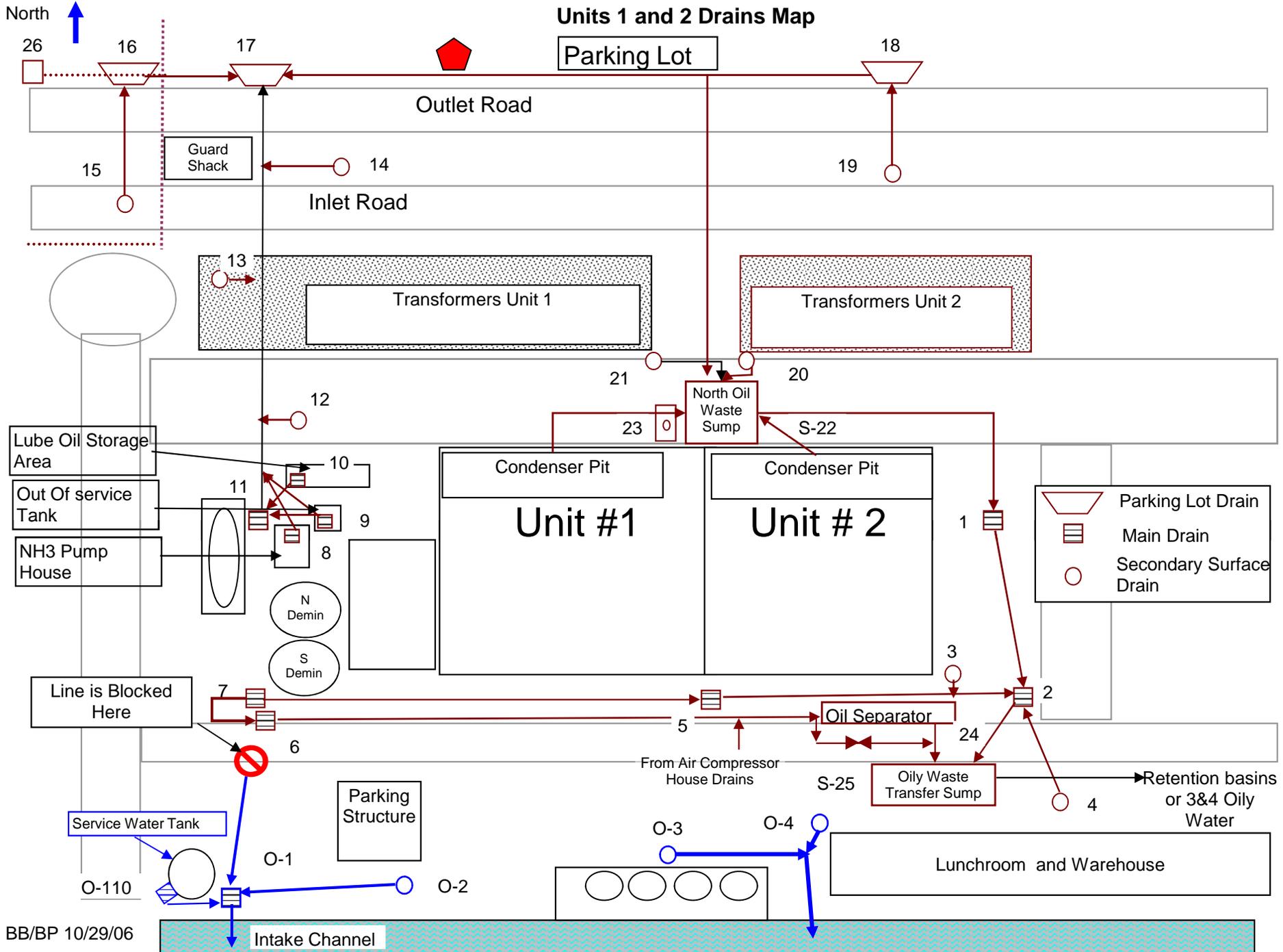
Response: Yes, 1995 Consent Decree from DTSC for SCE

**APPENDIX L**

**AES PLOT PLANS & PETROLEUM PRODUCTS LIST**

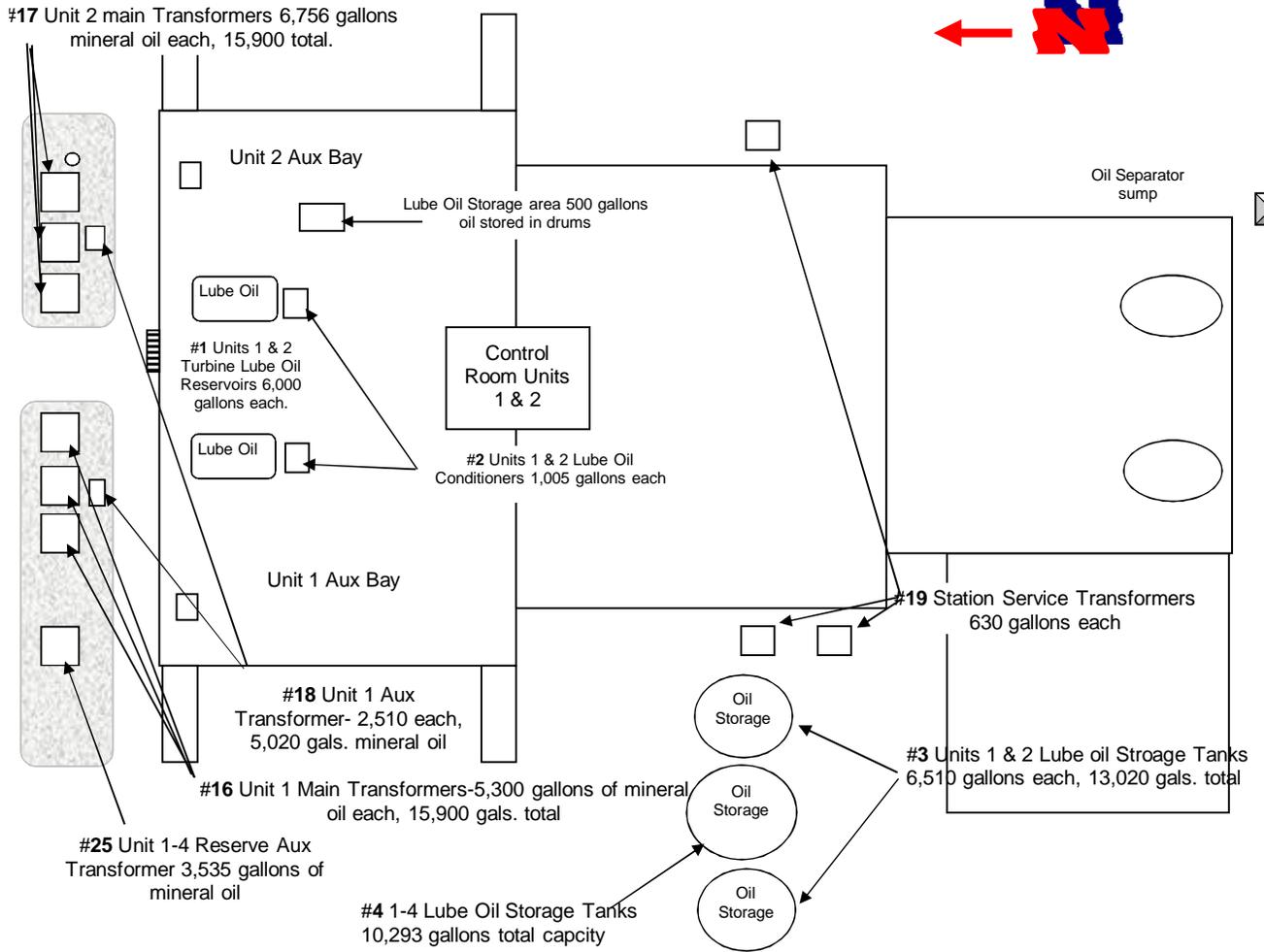
# AES Alamitos Facility Site Map





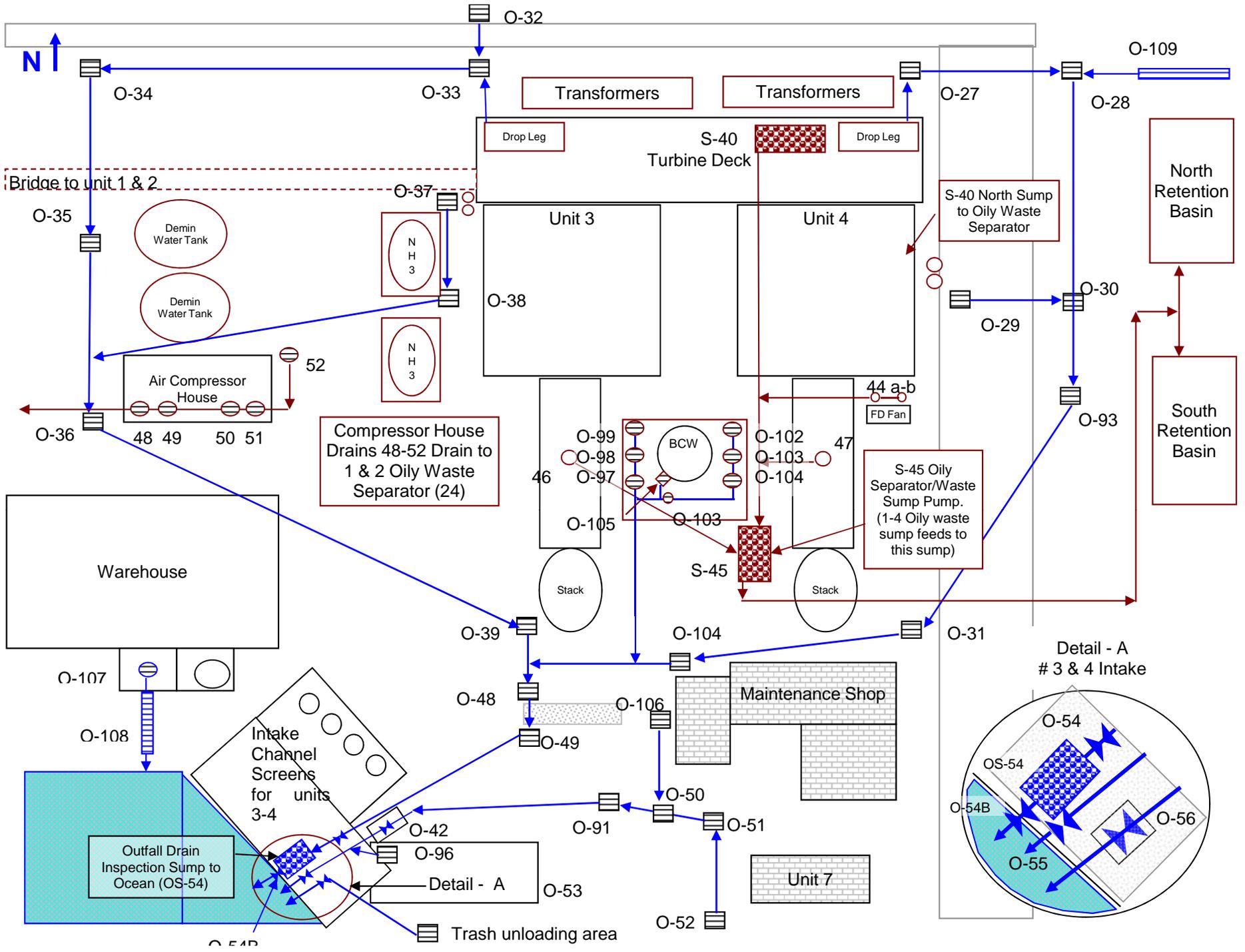
BB/BP 10/29/06

Units 1 2  
Aux Bay  
Lube Oil Storage  
and Capacities

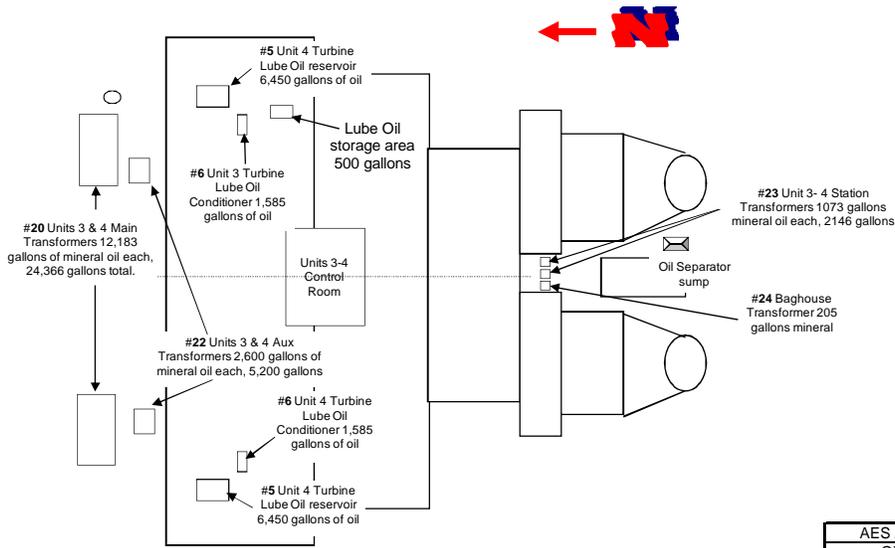


AES Alamos Generating Station		
Oil Storage and Capacities		
Revision 1		4/16/2007
Units 1-2		

### Units 3 and 4 Drains Map

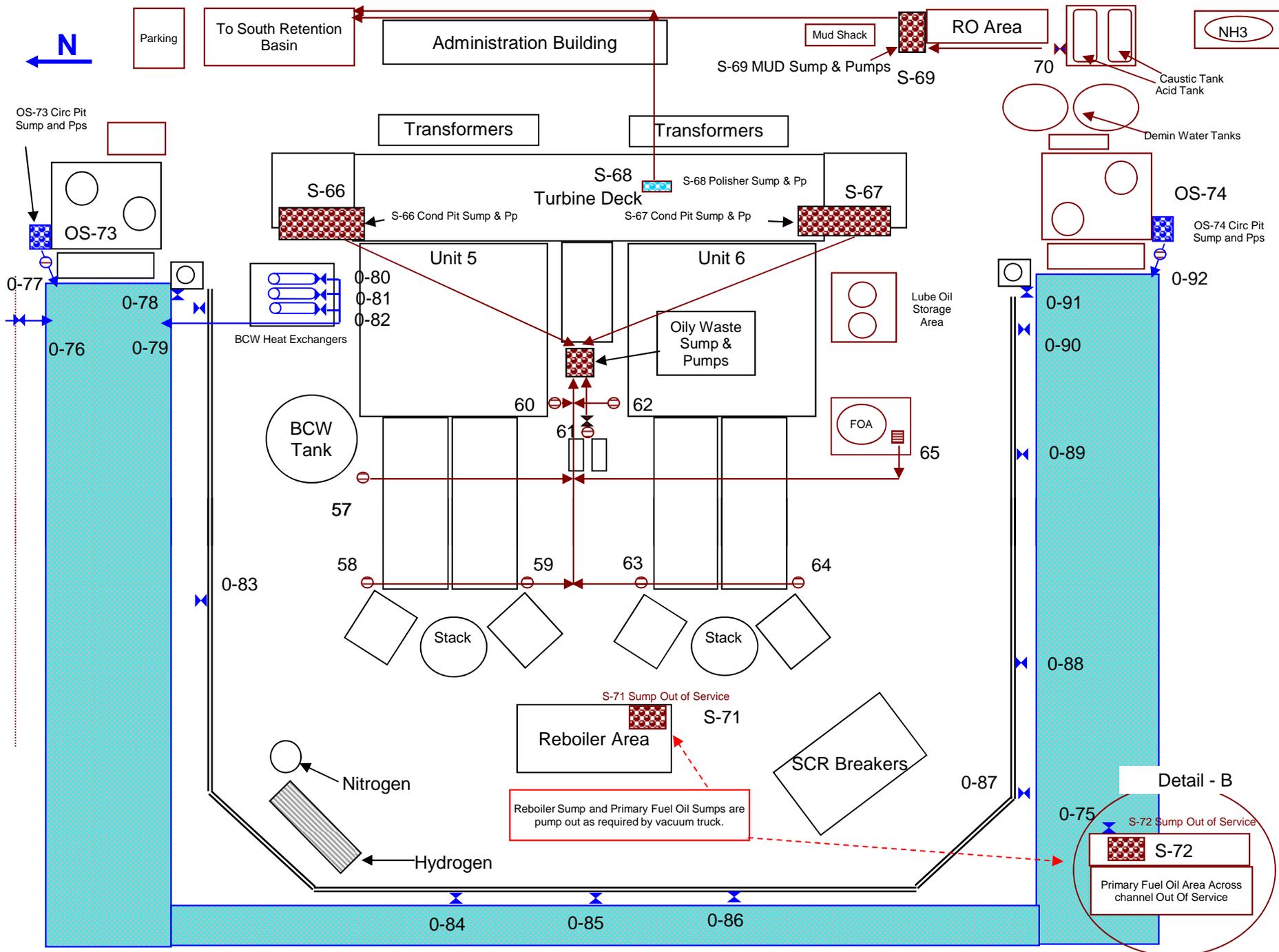


Units 3 & 4  
Aux Bay  
Oil Storage Areas  
and Capacities

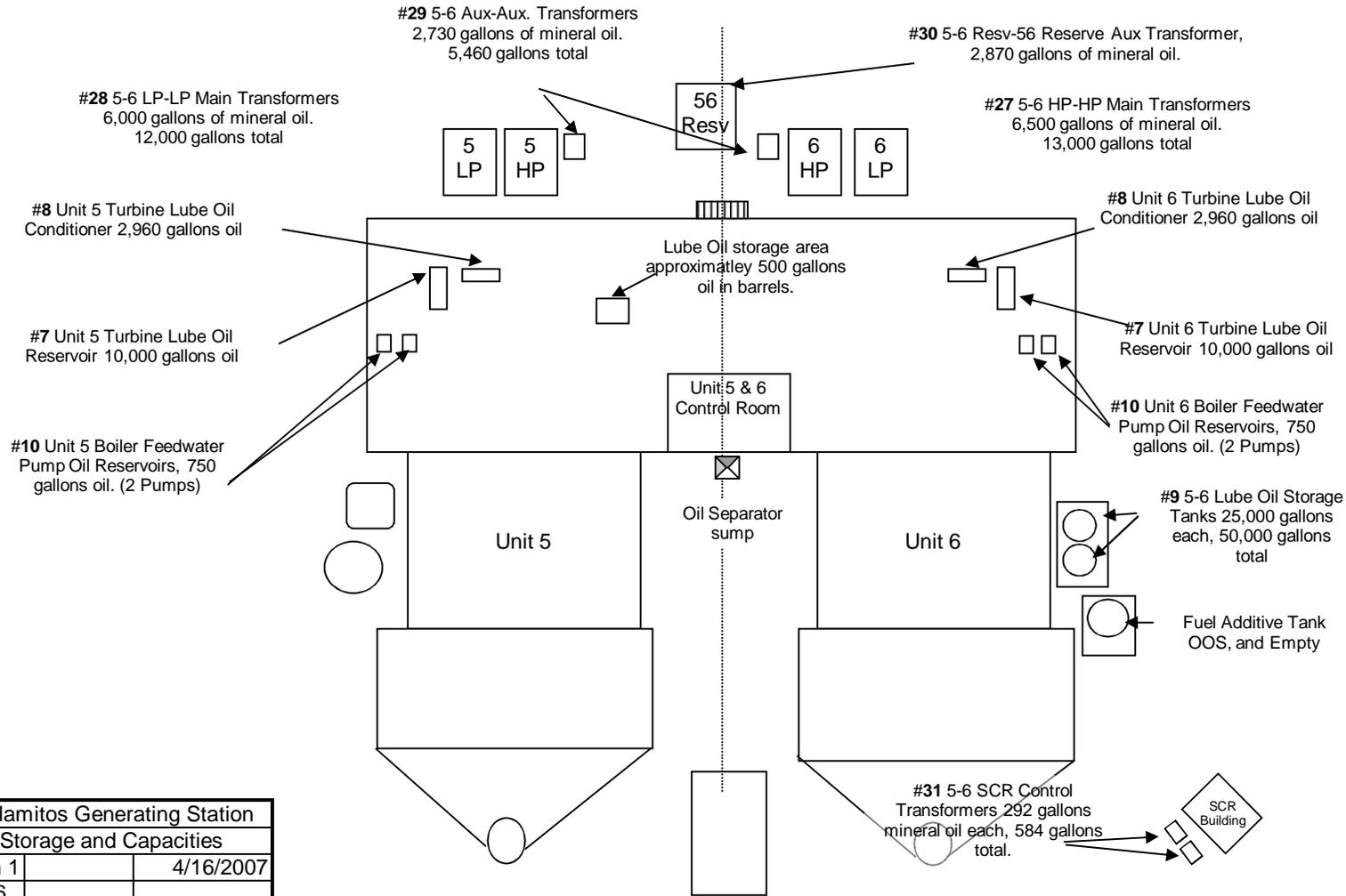
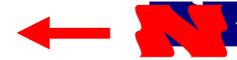


AES Alamos Generating Station		
Oil Storage and Capacities		
Revision 1		4/16/2007
Units 3-4		

# Units 5 and 6 Drains Map



Units 5 6  
Aux. Bay  
Lube Oil Storage Areas  
and Capacities



AES Alamos Generating Station		
Oil Storage and Capacities		
Revision 1		4/16/2007
Units 5-6		

**AES Alamitos L.L.C.**

**Tanks and Equipment Containing Petroleum Products**

Oil Product		Quantity	Individual capacity (gallons)	Total Capacity (gallons)	Location
<b>Lube Oil</b>					
1	Units 1 & 2 Turbine Lube Oil Reservoir	2	6,000	12,000	Underneath each operating unit in Aux bay
2	Unit 1 & 2 Turbine Lube Oil Conditioners	2	1,005	2,010	Underneath each operating unit in Aux bay
3	Units 1 & 2 Reservoir (storage)	2	6,510	13,020	West of Unit 1
4	Units 1-4 Lube Oil Storage Tank	1	10,293	10,293	West of Unit 1
5	Units 3 & 4 Turbine Lube Oil Reservoir	2	6,450	12,900	Underneath each operating unit in Aux bay
6	Units 3 & 4 Lube Oil Conditioners	2	1,585	3,170	Underneath each operating unit in Aux bay
7	Units 5 & 6 Turbine Lube Oil Reservoir	2	10,000	20,000	Underneath each operating unit in Aux bay
8	Units 5 & 6 Turbine Lube Oil Conditioners	2	2,960	5,920	Underneath each operating unit in Aux bay
9	Units 5 & 6 Lube Oil Storage Tank	2	25,000	50,000	South of Unit 6
10	Units 5 & 6 Boiler Feed Pump Lube Oil Reservoir	4	750	1,500	Underneath each operating unit in Aux bay
11	Units 5 & 6 Burner Drain Tank	1	18,000	18,000	Underneath each operating unit (OOS)
12	Units 7 Expander Turbines Lube Oil Reservoir	1	4,377	4,377	In unit 7 in Aux bay (Empty & OOS)
<b>Gear Oil</b>					
13	Drums	<40	55	2,750	West of Hazardous Storage Area
<b>Gasoline</b>					
14	Warehouse pick up truck, Tank in bed of truck	1	<30	<30	Parked in front of warehouse
<b>Diesel</b>					
15	Unit 7 Fuel storage tank	1	924,000	924,000	South of unit 7 (Tank is Empty and OOS)
<b>Electrical Transformers ( All transformers are filled with Mineral Oil that contain No PCBs)</b>					
16	Unit 1 Main Transformers	3	5,300	15,900	North of unit 1
17	Unit 2 Main Transformers	3	6,756	20,268	North of unit 2
18	Unit 1 & 2 Aux. Transformers	2	2,510	5,020	North of units 1 & 2
19	Unit 1 & 2 Station Transformers	3	570	1,710	2 West of unit 1, 1 East of unit 2
20	Unit 3 & 4 Main Transformers	2	1,283	2,566	North of units 3 & 4
21	Unit 3 & 4 Grounding Reactors	1	750	750	North of unit 4
22	Units 3 & 4 Aux Transformer	2	2,600	5,200	North of units 3 & 4
23	Units 3 & 4 Station Transformers	2	1,073	2,146	South of units 3 & 4
24	Unit 3 Baghouse Transformer	1	205	205	South of units 3 & 4
25	Units 1-4 Reserve Aux Transformer	1	3,535	3,535	North of unit 1
26	Units 5 & 6 Station Transformer	2	1,073	2,146	East of units 5 & 6
27	Units 5 & 6 Main Hp Transformers	2	6,500	13,000	East of units 5 & 6
28	Units 5 & 6 Main LP Transformers	2	6,000	12,000	East of units 5 & 6
29	Units 5 & 6 Aux Transformers	2	2,730	5,460	East of units 5 & 6
30	Units 5 & 6 Reserve Aux Transformer	1	2,870	2,870	East of units 5 & 6
31	Units 5 & 6 SCR Control Transformers	2	292	584	West of units 5 & 6
32	Unit 7 Main and Aux Transformers	3	11,081	33,243	West of unit 7 (Total capacity)
33	Units 1 & 2 Grounding Reactors	1	592	592	North of units 1 & 2

---

**ENVIRONMENTAL MANAGEMENT STRATEGIES, INC.**

*Financially Based,*

16510 Aston St.

Tel 949.679.9500



*Environmental Solutions*

Irvine, CA 92606

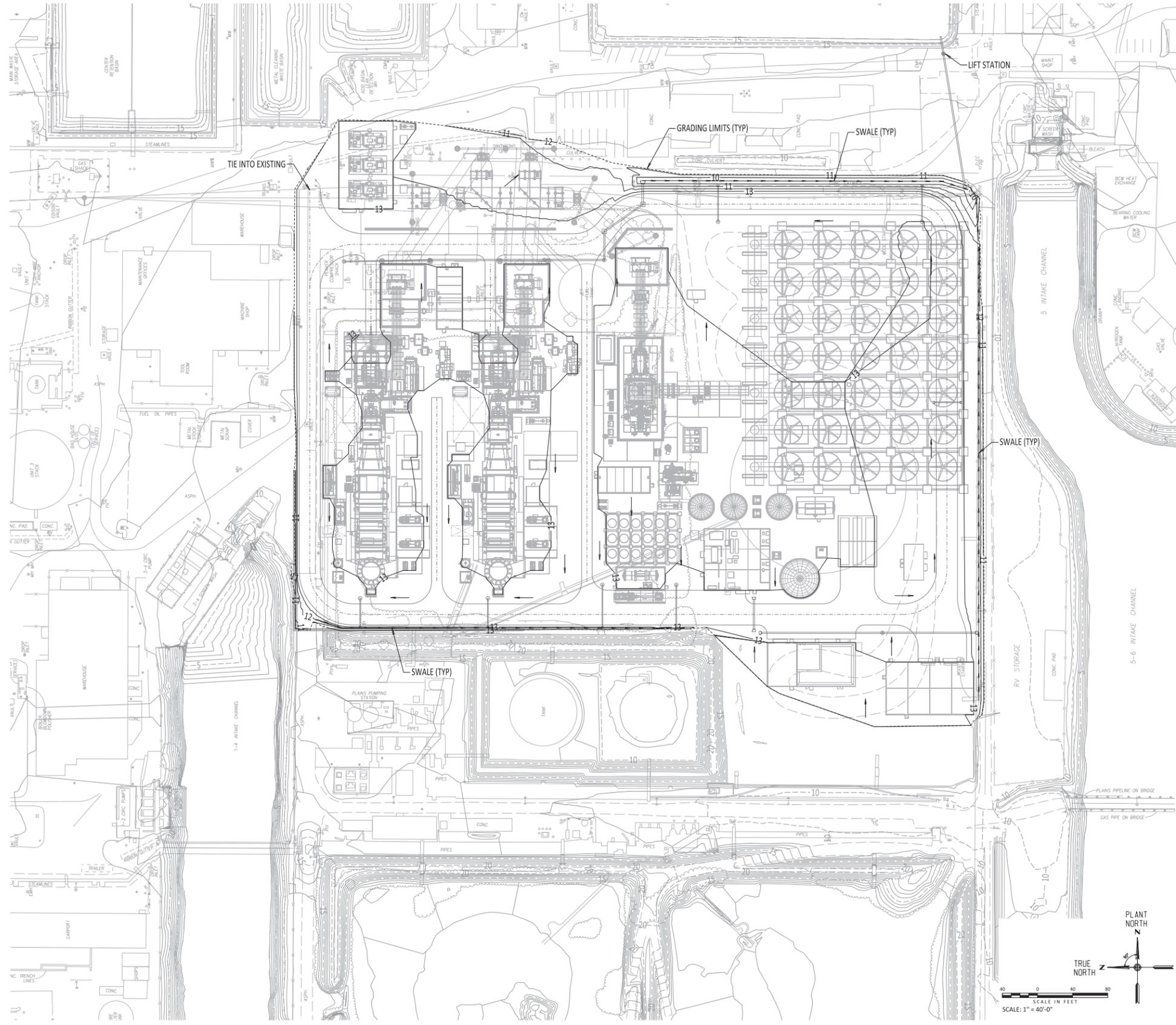
Fax 949.679.9501

<http://www.goemsinc.com>

**Appendix 5.15A**  
**Grading and Drainage Plans**

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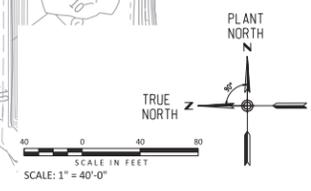




- NOTES:**
1. EARTHWORK QUANTITIES (NO SHRINK/SWELL APPLIED)  
ALL IN SITE:  
CUT = 402 CY  
FILL = 3,472 CY
  2. TOP OF CONCRETE: 14.0'  
TOP OF SURFACE: 13.5'  
TOP OF GRADE: 13.0'
  3. SEE CS-002 FOR SURFACING PLAN.
  4. SEE CW-002 FOR STORMWATER PLAN.
  5. CONTOURS ARE EVERY 1.0 FT.

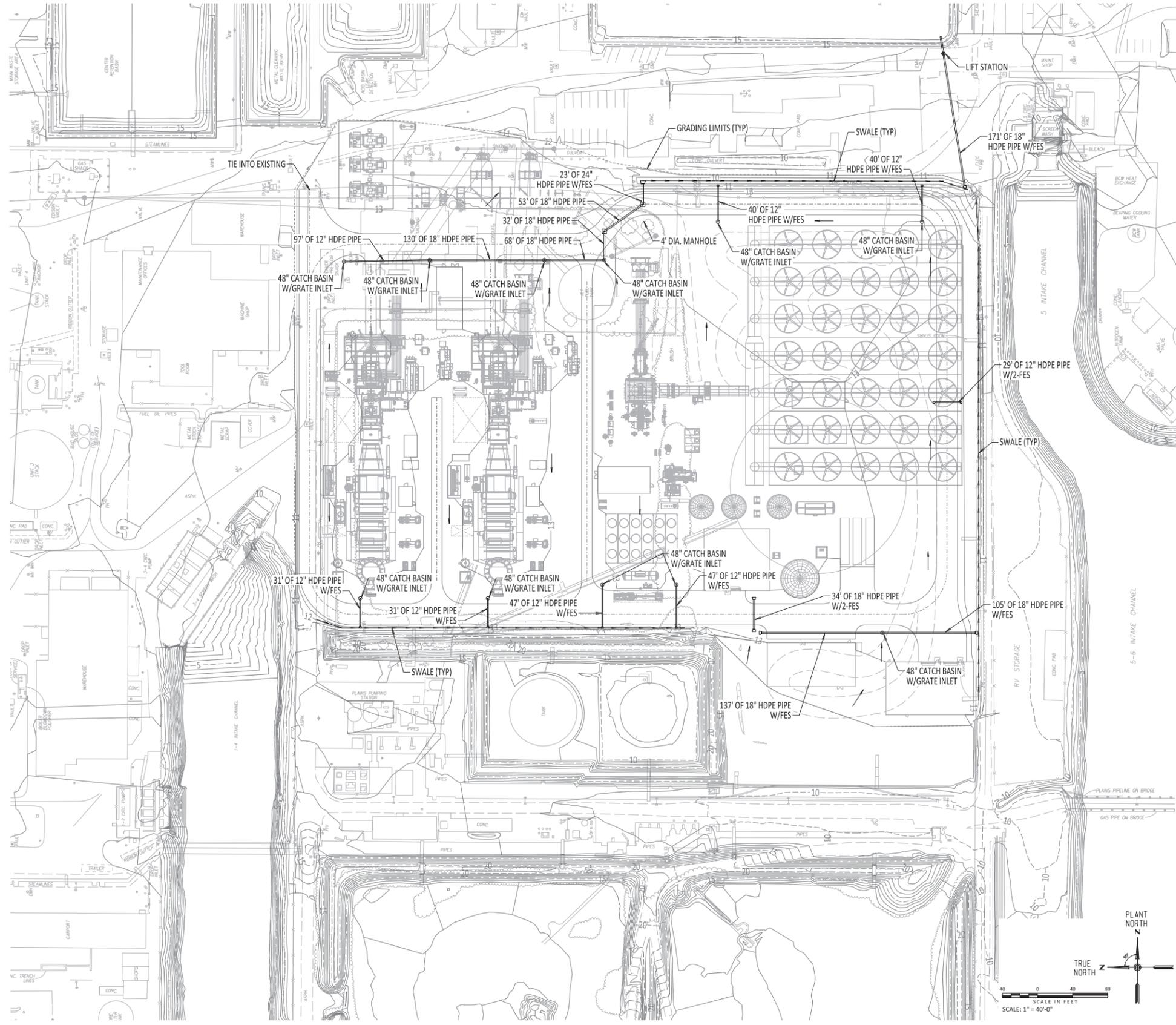
- PRELIMINARY -  
NOT FOR CONSTRUCTION  
CONFIDENTIAL

THESE DRAWINGS ARE CONFIDENTIAL IN NATURE. ANY MISUSE OR UNAUTHORIZED DISTRIBUTION OF THE DRAWINGS CONTAINED HEREIN WILL BE A VIOLATION OF THIS CONFIDENTIALITY AGREEMENT AND SUBJECT THE VIOLATOR TO LIABILITY. REVIEW OF THESE MATERIALS BY RECIPIENT SHALL CONSTITUTE AN ACCEPTANCE OF THESE TERMS AND THE TERMS OF ANY UNDERLYING CONFIDENTIALITY AGREEMENT. WE WILL HAVE SPECIFIED IN SEPARATE WRITING INFORMATION FROM A THIRD PARTY, IF THE RECIPIENT IS NOT IN AGREEMENT WITH THE OBLIGATION OF CONFIDENTIALITY THEN THE DRAWINGS SHALL BE RETURNED TO THE ORIGINATOR.



AEC CCGT Grading Plan



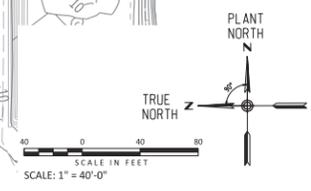


- NOTES:**
- STORMWATER QUANTITIES:
 

12" HDPE	362 FT
18" HDPE	709 FT
24" HDPE	40 FT
48" DIA. CATCH BASIN	11 EACH
12" FES	8 EACH
18" FES	5 EACH
24" FES	1 EACH
LIFT STATION	1 EACH
4' DIA. MANHOLE	1 EACH
MANUAL GATE VALVE	1 EACH
SWALE	1,387 FT
  - TOP OF CONCRETE: 14.0'  
TOP OF SURFACE: 13.5'  
TOP OF GRADE: 13.0'
  - SEE CS-002 FOR SURFACING PLAN.
  - SEE CG-002 FOR GRADING PLAN.
  - CONTOURS ARE EVERY 1.0 FT.

- PRELIMINARY -  
NOT FOR CONSTRUCTION  
CONFIDENTIAL

THESE DRAWINGS ARE CONFIDENTIAL IN NATURE. ANY MISUSE OR UNAUTHORIZED DISTRIBUTION OF THE DRAWINGS CONTAINED HEREIN WILL BE A VIOLATION OF THIS CONFIDENTIALITY REQUIREMENT AND SUBJECT THE VIOLATOR TO LIABILITY. REVIEW OF THESE MATERIALS BY RECIPIENT SHALL CONSTITUTE AN ACCEPTANCE OF THESE TERMS AND THE TERMS OF ANY UNDERLYING CONFIDENTIALITY AGREEMENTS WE MAY HAVE SPECIFIED IN SEPARATE. THIS INFORMATION FROM A THIRD PARTY. IF THE RECIPIENT IS NOT IN AGREEMENT WITH THE OBLIGATION OF CONFIDENTIALITY THEN THE DRAWINGS SHALL BE RETURNED TO THE ORIGINATOR.



**AEC CCGT Drainage Plan**



Los Angeles County  
 Rational Method - Time of Concentration  
 Project name: AES Power Plant - Los Alamitos  
 Design Storm: 10-yr  
 24-hour Precipitation: 3.43

Computed: KSP Date: 3/6/2015  
 Checked: \_\_\_\_\_ Date: \_\_\_\_\_

Basin **EX1** Length **1,765**  
 Imperviousness **0.97** Elev. Diff **1.7**  
 Area **9.5** Slope **0.001**

Iteration Number	$I_{1440}$ (in/hr)	Initial $T_c$ (min)	$I_t/I_{1440}$	$I_t$ (in/hr)	$C_u$	$C_d$	$C_d * I$ (in/hr)	Calculated $T_c$ (min)	Difference (min)
1	0.14	<b>35.00</b>	5.74	0.82	<b>0.10</b>	0.88	0.72	34.79	0.21
2	0.14	34.79	5.75	0.82	<b>0.10</b>	0.88	0.72	34.74	0.05
3	0.14	34.74	5.76	0.82	<b>0.10</b>	0.88	0.72	34.73	0.01

$Q_{PEAK}$  (cfs) = **6.8**

Basin **A** Length **1,500**  
 Imperviousness **0.97** Elev. Diff **15.0**  
 Area **10.8** Slope **0.01**

Iteration Number	$I_{1440}$ (in/hr)	Initial $T_c$ (min)	$I_t/I_{1440}$	$I_t$ (in/hr)	$C_u$	$C_d$	$C_d * I$ (in/hr)	Calculated $T_c$ (min)	Difference (min)
1	0.14	<b>21.00</b>	7.29	1.04	<b>0.21</b>	0.88	0.92	20.66	0.34
2	0.14	20.66	7.35	1.05	<b>0.21</b>	0.88	0.92	20.58	0.08
3	0.14	20.58	7.36	1.05	<b>0.21</b>	0.88	0.92	20.56	0.02

$Q_{PEAK}$  (cfs) = **10.0**

Los Angeles County  
 Rational Method - Time of Concentration  
 Project name: AES Power Plant - Los Alamitos  
 Design Storm: 50-yr  
 24-hour Precipitation: 4.80

Computed: KSP Date: 3/6/2015  
 Checked: \_\_\_\_\_ Date: \_\_\_\_\_

Basin **EX1** Length **1,765**  
 Imperviousness **0.97** Elev. Diff **1.7**  
 Area **9.5** Slope **0.001**

Iteration Number	$I_{1440}$ (in/hr)	Initial $T_c$ (min)	$I_t/I_{1440}$	$I_t$ (in/hr)	$C_u$	$C_d$	$C_d * I$ (in/hr)	Calculated $T_c$ (min)	Difference (min)
1	0.20	<b>30.00</b>	6.17	1.23	<b>0.17</b>	0.88	1.08	28.10	1.90
2	0.20	28.10	6.36	1.27	<b>0.17</b>	0.88	1.12	27.65	0.44
3	0.20	27.65	6.41	1.28	<b>0.17</b>	0.88	1.13	27.55	0.11

$Q_{PEAK}$  (cfs) = **10.7**

Basin **A** Length **1,500**  
 Imperviousness **0.97** Elev. Diff **15.0**  
 Area **10.8** Slope **0.01**

Iteration Number	$I_{1440}$ (in/hr)	Initial $T_c$ (min)	$I_t/I_{1440}$	$I_t$ (in/hr)	$C_u$	$C_d$	$C_d * I$ (in/hr)	Calculated $T_c$ (min)	Difference (min)
1	0.20	<b>18.00</b>	7.84	1.57	<b>0.17</b>	0.88	1.38	16.72	1.28
2	0.20	16.72	8.12	1.62	<b>0.17</b>	0.88	1.43	16.42	0.30
3	0.20	16.42	8.19	1.64	<b>0.17</b>	0.88	1.44	16.35	0.07

$Q_{PEAK}$  (cfs) = **15.5**

AES Los Alamitos Power Plant  
Long Beach, California

**Utility Trench Excavation Quantities**

Utility	Material	Diameter		Pipe Thickness		Length Feet	Average Depth to Top of Pipe Feet	Bedding Below Pipe Feet	Average Depth to Bottom of Trench Feet	Trench Bottom Width Feet	Excavation Volume	
		Inches	Feet	Inches	Feet						Cu Feet	Cu Yards
Storm Drain	RCP	30	2.50	3.50	0.29	3,800	4	0.50	7.58	5.00	144,083	5,336
HP Natural Gas	HDPE	16	1.33	0.50	0.04	1,725	5	0.50	6.92	5.00	59,656	2,209
LP Natural Gas	HDPE	18	1.50	0.50	0.04	275	5	0.50	7.08	5.00	9,740	361
City Water Service	DIP	8	0.67	0.50	0.04	1,150	4.5	0.50	5.75	5.00	33,063	1,225
Fire Protection Water	DIP	8	0.67	0.50	0.04	2,575	4.5	0.50	5.75	5.00	74,031	2,742
Process Water	DIP	8	0.67	0.50	0.04	1,450	4.5	0.50	5.75	5.00	41,688	1,544
Sanitary Sewer	PVC	8	0.67	0.50	0.04	870	10	1.50	12.25	5.00	53,288	1,974
Ammonia Line	HDPE	4	0.33	0.33	0.03	1,705	5	2.50	7.89	5.00	67,248	2,491
Electric Duct Bank	CONCRETE	60	5.00	2.00	0.17	3,010	2	0.50	5.33	6.33	101,671	3,766
<b>Total Project Trench Excavation:</b>											<b>584,467</b>	<b>21,647</b>

**Assumptions:**

Bottom trench width is the outside of pipe + 6" each side, with a minimum width of 3'  
Trenches deeper than 4' will utilize a trench box for construction and minimum trench width of 5'  
All storm pipes assumed 30" diameter. Smaller sizes may be determined with final design.

**Utility Foundation Excavation Quantities**

Utility	Number of Structures	Number of Circular Foundations	Foundation Diameter Feet	Excavation Depth Feet	Excavation Volume	
					Cu Feet	Cu Yards
A-frame	2	8	2	8	402	15
Transmission Pole	3	3	6	18	4,580	170
<b>Total Project Trench Excavation:</b>					<b>4,983</b>	<b>185</b>

**Assumptions:**

The foundations will be drilled with no additional excavation outside the foundation dimension.  
These calculations are subject to the recommendations of a geotechnical engineer. Excavation assumptions may be adjusted.

**Grading Quantities**

Cut	6,235	CY
Fill	5,382	CY
Net	853	CY Cut

\* EXISTING AND PROPOSED SURFACE PAVEMENTS ARE NOT ACCOUNTED FOR. THESE QUANTITIES COMPARE FINISHED GROUND TO EXISTING GROUND. EARTHWORK VOLUMES DO NOT TAKE SHRINKAGE OR SWELL INTO ACCOUNT.

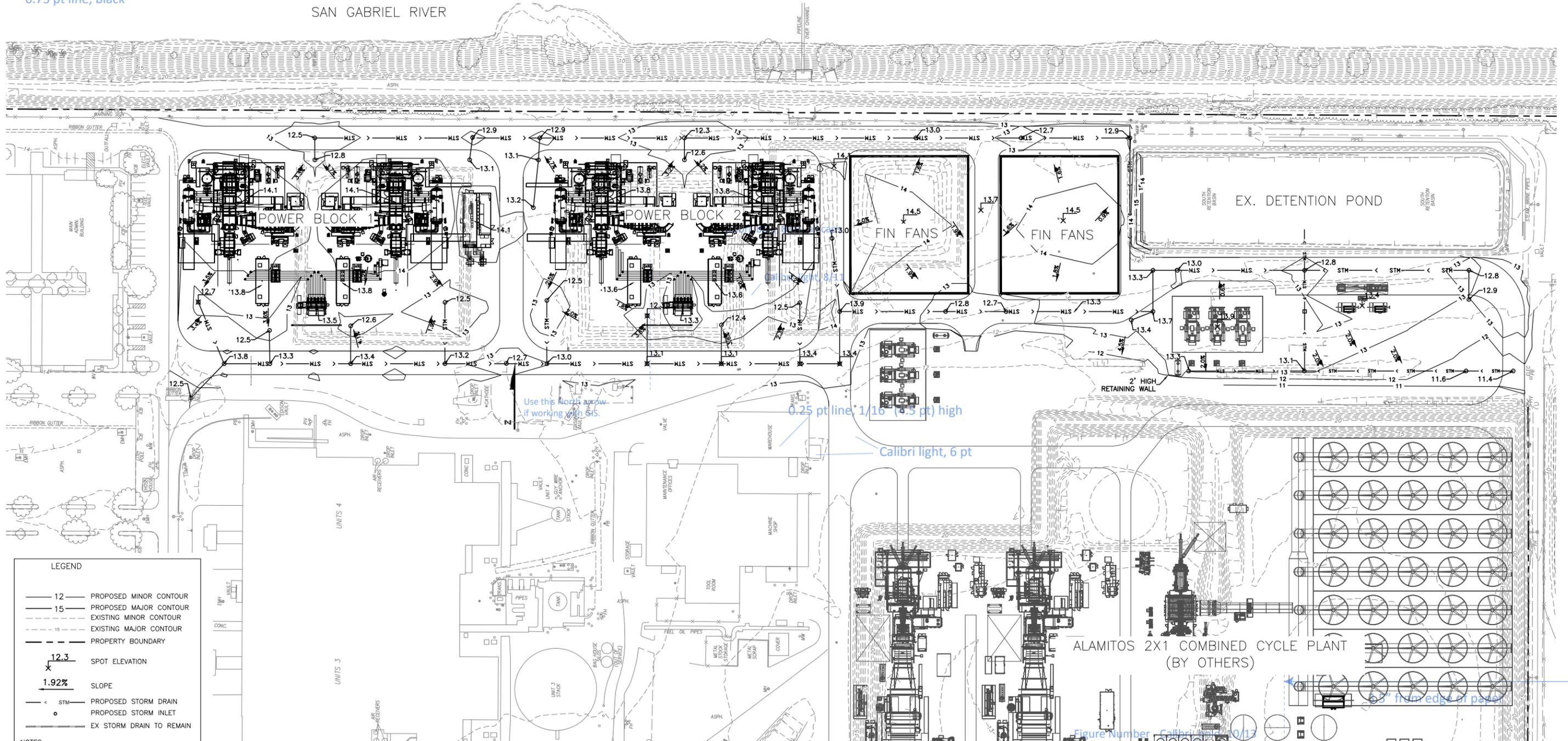
AEC SCGT Excavation and Grading Quantities



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SAN GABRIEL RIVER



0.75" margin

0.75" margin

Use this North arrow if working with GIS.

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Calibri light, 6 pt

**LEGEND**

- 12 PROPOSED MINOR CONTOUR
- 15 PROPOSED MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- - - - - PROPERTY BOUNDARY
- 12.3 SPOT ELEVATION
- 1.92% SLOPE
- STM — PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- EX STORM DRAIN TO REMAIN

**NOTES:**  
 1. ALL ELEVATIONS ARE FINISHED GRADE OR GRADE AT EDGE OF FOUNDATION UNLESS OTHERWISE NOTED. EXISTING AND PROPOSED SURFACE PAVEMENTS ARE NOT ACCOUNTED FOR. THESE QUANTITIES COMPARE FINISHED GROUND TO EXISTING GROUND.

**EARTHWORK:**  
 CUT 6,235 CY  
 FILL 5,382 CY  
 NET 853 CY CUT

\* EARTHWORK VOLUMES DO NOT TAKE SHRINKAGE OR SWELL INTO ACCOUNT.

Calibri Light, 6pt.  
Always include JETT number and FileName.

ALAMITOS 2X1 COMBINED CYCLE PLANT (BY OTHERS)

Figure Number - Calibri bold, 10/13  
Figure Title - Calibri, bold, 10/13  
Project Name - Calibri, light, italic, 10/13  
Project Location - Calibri, light, 9/12

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AEC SCGT Grading Plan

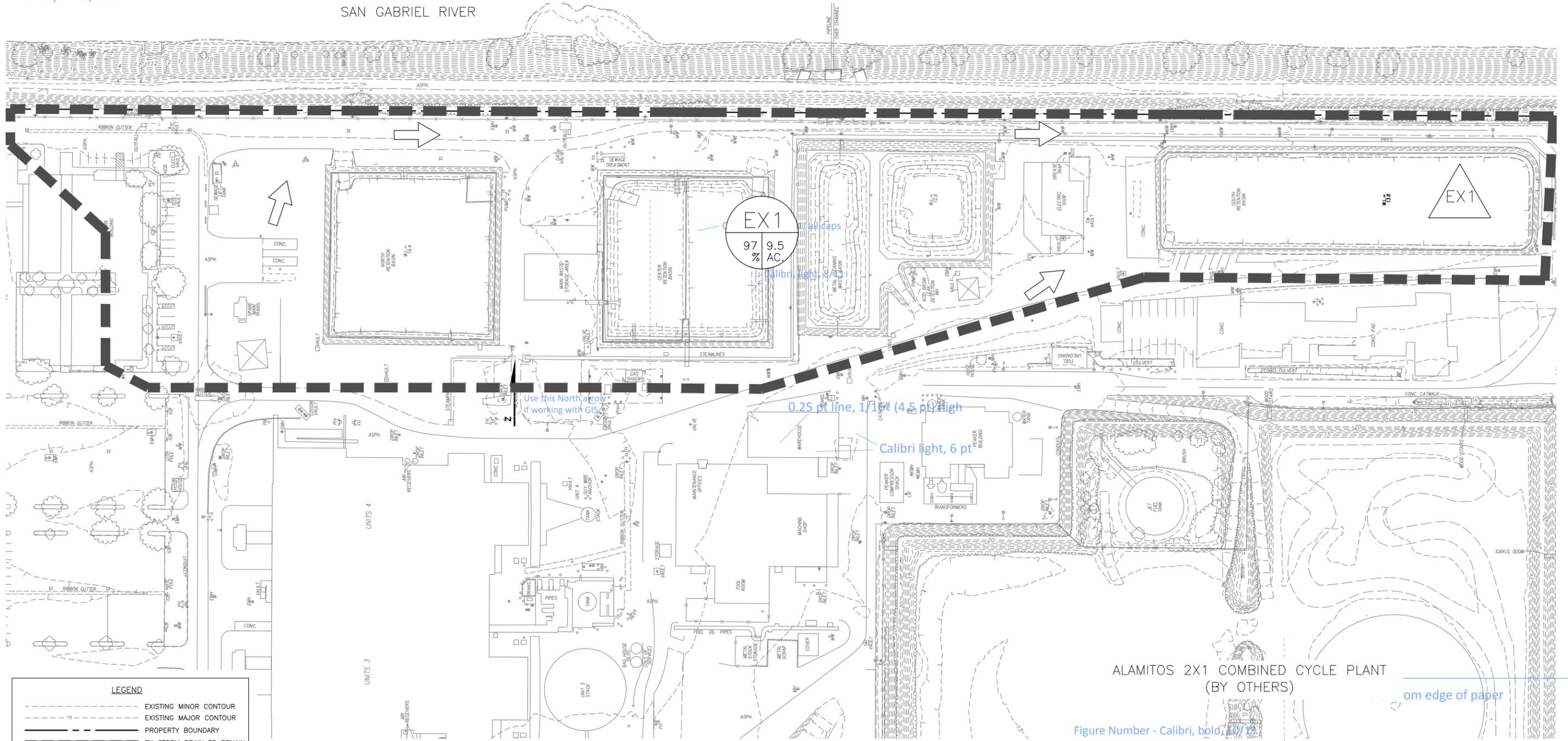


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0.75" margin

0.75 pt line, black

SAN GABRIEL RIVER



0.75" margin

0.75" margin

**LEGEND**

- EXISTING MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- PROPERTY BOUNDARY
- EX STORM DRAIN TO REMAIN
- EXISTING BASIN BOUNDARY

BASIN NAME

EX1

DRAINAGE BASIN ID

97 9.5 94 AC.

IMPERVIOUSNESS

BASIN AREA

DESIGN POINT

DRAINAGE FLOW ARROW

**Existing Drainage Flow Summary**

Basin	Peak Flow	
	10-year	50-year
EX1	6.8 CFS	10.7 CFS

Footer, Slugline  
 Calibri Light, 6pt.  
 Always include JETT  
 number and FileName.

Use this North arrow  
 if working with GIS

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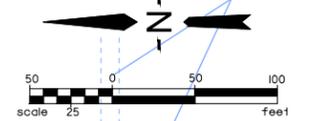
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ALAMITOS 2X1 COMBINED CYCLE PLANT  
 (BY OTHERS)

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 Figure Title - Calibri, bold, 10/13  
 Project Name - Calibri, light, italic, 10/13  
 Project Location - Calibri, light, 9/12

space = x space of logo (pg 9, brand guidelines)



AEC SCGT Historic Drainage Basins

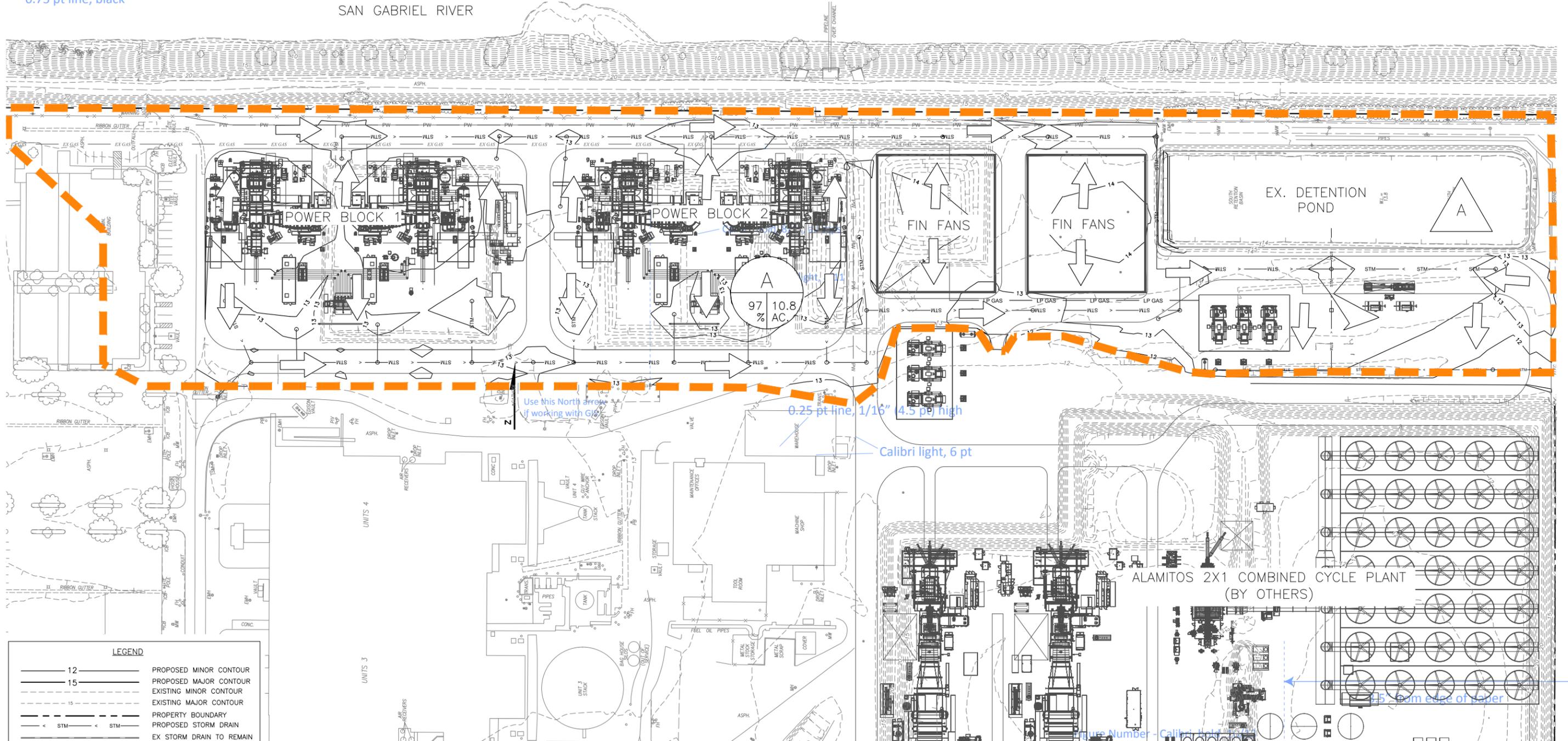


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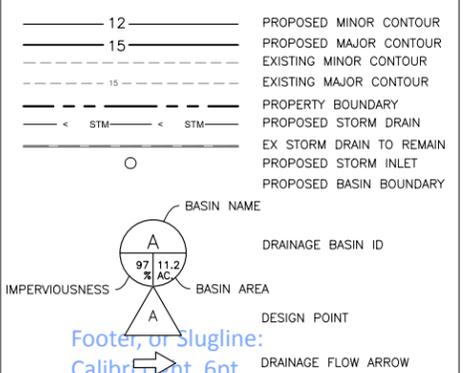
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SAN GABRIEL RIVER



LEGEND



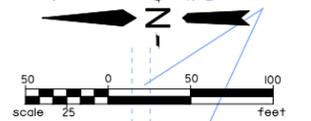
Proposed Drainage Flow Summary

Basin	Peak Flow	
	10-year	50-year
A	10.0 CFS	15.5 CFS

Footer, or Slugline:  
 Calibri light, 6pt.  
 Always include JETT  
 number and FileName.

Figure Number - Calibri, bold, 10/13  
 Figure Title - Calibri, bold, 10/13  
 Project Name - Calibri, light, italic, 10/13  
 Project Location - Calibri, light, 9/12

space = x space of logo (pg 9, brand guidelines)



AEC SCGT Developed Drainage Basins



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0.75" margin



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