Attachment 13

The Lumberyard

Application Number: 141157



Phase I Environmental Site Assessment

DeFrees/Wagner Property 3800 Portola Drive APNs 032-092-01 & 032-092-05 Santa Cruz, California



Prepared at the request of:

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San Francisco, California

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1.0 EXECUTIVE SUMMARY

At the request of Mr. Franklin Loffer, managing member of North Point Investments, Remediation Risk Management, Inc. (RRM) has prepared this Phase I Environmental Site Assessment (ESA) for the real property located at 3800 Portola Drive, Santa Cruz, Santa Cruz County, California (the Property) (Figures 1 and 2). The Santa Cruz County Assessor's Office (SCCAO) identifies the Property with assessor's parcel numbers (APN) 032-092-01 and 032-092-05.

RRM performed the ESA in general accordance with the American Society of Testing and Materials (ASTM) Standard Practices E 1527-05 and E 1527-13. Practice E 1527-05 satisfies the Environmental Protection Agency's (EPA's) "All Appropriate Inquiries" (AAI) rule qualifying an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser for protection from potential liability under CERCLA¹. Final recognition of ASTM E 1527-13 as compliant with the AAI rule is still pending with the EPA. Consequently, RRM has addressed the modifications to the most recent ASTM Standard in order that this Phase I shall remain valid upon EPA's soon expected recognition of ASTM E 1527-13. Where referenced below as "the ASTM Standard" or "ASTM E 1527", the remark pertains to both versions of the Standard. Comments specific to one or the other of the two versions will be so identified.

The ASTM Standard specifies minimum requirements for ESAs that permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (commonly referred to as the "landowner liability protections", or "LLPs"): that is, the practice that constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 U.S.C.§9601(35)(B).

As such, this ESA includes the following components: records review, site reconnaissance, interviews, and report preparation. Exceptions to this practice are presented in Section 2.4 of this report. The following information was obtained from these sources:

Report Section	Not an Environmental Concern / Not Applicable	De Minimis Condition*	Recognized Environmental Condition (REC)**	Historical Recognized Environmental Condition (HREC)***	Environmental Concern
Adjacent Land Use	X	_		X	
User Provided Information	X				
Historical Site Use		Х			
Historical Site Use - Adjacent Parcels				X	Х
HVAC Systems	Х				
Elevators	Х				
Hazardous Materials / Waste Storage	Х				
Radiological Hazards	Х				
Unidentified Substance Containers	X				

¹ Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601), also known as Superfund

Report Section	Not an Environmental Concern / Not Applicable	De Minimis	Recognized Environmental Condition (REC)**	Historical Recognized Environmental Condition (HREC)***	Environmental Concern
Underground Storage	Applicable	Condition	(NLO)	(IIILO)	Conden
Tanks (UST)	Х				
Aboveground Storage Tanks (AST)	Х				
Hydraulic Lifts / Equipment	X				
Wastewater Treatment, Clarifiers, Separators	Х				
Pits, Ponds, Lagoons	Х				
Septic Systems	X				
Private Water Systems / Wells	Х				
Stained Soil / Distressed Vegetation	Х				
Spills, Leaks, Corrosion, and Odors	Х				
Cisterns, Sumps, Floor Drains	Х				
Storm Drains / Other Drains	X				
Mines, Oil and Gas Wells	Х				
Pipelines	Х				
Polychlorinated Biphenyls (PCBs)	Х				
Environmental Database Findings					X
Asbestos			(possible)		
Lead-Based Paint			(possible)		
Vapor Encroachment					Х

- * De Minimis conditions are defined by ASTM E 1527-13 as conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions that are determined to be *de minimis* are not *recognized environmental conditions*.
- ** A Recognized Environmental Condition (REC) is defined by ASTM E 1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to the 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.
- *** A Historical Recognized Environmental Condition (HREC) is defined by ASTM E 1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with a property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted land use criteria established by a regulatory authority, without subjecting the property to any required controls.

1.1 Significant Findings

No recognized environmental conditions, or significant data gaps concerning the Property history and uses were discovered during this assessment.

1.2 Conclusions & Recommendations

RRM has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. We have performed a Phase I Environmental Site Assessment of 3800 Portola Drive, Santa Cruz, California; Assessors Parcel Numbers 032-092-01 and 032-092-05 (the Property) in conformance with the scope and limitations of ASTM Standard Practice E 1527. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property.

This Phase IESA documents groundwater conditions at nearby sites that indicate the Property has potentially been impacted with tetrachloroethylene (PCE). If a greater degree of certainty is desired regarding concentrations of PCE that may exist in soil, soil gas, and/or groundwater beneath the Property, a limited subsurface investigation should be performed.

Based on the age of the Property building, it is possible that some of the construction materials contain asbestos or lead. An asbestos and lead survey should be conducted prior to any demolition, remodeling, or maintenance that may disturb these materials.

2.0 INTRODUCTION

2.1 Purpose of this Assessment

The purpose of this ESA was to determine the potential for soil and groundwater contamination resulting from the use of hazardous substances or petroleum products on or near the commercial Property located at 3800 Portola Drive, Santa Cruz, California. This ESA has been performed at the request of Mr. Franklin Loffer, Managing Member of North Point Investments, who is considering purchasing the Property.

2.2 Detailed Scope of Services

Exceptions and limitations of this assessment are presented in Sections 2.3. Special terms and conditions for this assessment are presented in Section 2.4.

The steps included for this ESA are as follows:

- Site Reconnaissance. Accessible areas of the Property and Property vicinity were physically inspected in order to identify possible hazardous waste storage, dumping, or contamination.
- Records Review. A review of reasonably ascertainable records was conducted; sources
 included regulatory agency files, lists and databases, topographical maps, address listings, and
 aerial photographs.
- Interviews. One of the current Property owners and a previous tenant were interviewed in order to establish current and previous Property uses, current and previous use of hazardous materials, and hazardous waste practices at the Property.
- Report Preparation. The information gathered for this ESA was compiled, and the findings are
 presented in this report.

Additional Services:

 Tier 1 Vapor Encroachment Screen. Pursuant to ASTM Standard Guide E2600-10 a review of reasonably ascertainable records was conducted to determine if a vapor encroachment condition exists at the Property.

Each of the steps of the Phase I ESA is described in detail in Sections 3.0 through 8.0; the Tier 1 Vapor Encroachment Screen is presented in Section 9.0; the findings of this assessment are presented in Section 10.0, opinions regarding the findings are presented in Section 11.0, and the conclusions and recommendations of this assessment are presented in Section 12.0. The qualifications and signature of the environmental professional performing the Phase I ESA are presented in Section 13.0. References are presented in Section 14.0.

2.3 Significant Assumptions

RRM interviewed one of the current Property owners and a former tenant to obtain details regarding the Property conditions, the historic use of the Property, and hazardous materials handling practices at the Property. By presenting this reported information about uses of the Property, RRM has assumed that the

persons interviewed have been forthright and truthful regarding their knowledge of the conditions, uses, and materials handling practices at the Property.

2.4 Exceptions and Limitations

We have developed and performed appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and as defined in ASTM Practice E 1527-05 and E 1527-13. Exceptions to these are as follows:

 Sanborn Maps (Sanborns) are historic fire insurance maps that provide details about the construction materials and uses of structures in developed areas. EDR reported that Sanborns were not available for the Property vicinity.

This Phase I ESA is based strictly on the information obtained during this assessment. This ESA does not include the testing or sampling of petroleum hydrocarbons, solvents, radon, pesticides, molds, lead-based paint, asbestos, or polychlorinated biphenyls. Additionally, this ESA does not provide a comprehensive survey of wetlands, mining, oil, pipeline, and gas wells. Determining all historic hazardous materials and/or hazardous waste practices for the Property is not practicable and is beyond the scope of this assessment.

All reasonable care and professionalism in carrying out this Phase I ESA was taken by RRM. However, no warranty or guarantee of any kind whatsoever, expressed or implied, is made or intended other than that this Phase I ESA has been compiled using ordinarily exercised professional standards. There are inherent risks associated with Phase I ESAs. No matter how detailed a Phase I ESA is performed, all potential hazardous material or hazardous waste locations may not be determined. RRM's findings, interpretations, and recommendations are based solely on the strength of information obtained and/or reviewed.

2.5 Special Terms and Conditions

Mr. Loffer did not request any special terms or conditions outside the requirements in ASTM Standard Practice E 1527.

2.6 User Reliance

This Phase I ESA is provided expressly for use by Mr. Franklin Loffer, his investment partners for the Property, and their lender(s). No other use or disclosure is intended or authorized by RRM. This Phase I ESA may not be relied upon by any other person or entity without the express written permission of RRM.

3.0 PROPERTY DESCRIPTION

3.1 Location and Legal Description

The Property is comprised of two parcels totaling approximately 35,370 square feet situated on the southeast corner of the intersection of Portola Drive with 38th Avenue, in the unincorporated Pleasure Point district of Santa Cruz, Santa Cruz County, California. The Property is identified by SCCAO with APNs 032-092-01 and 032-092-05.

3.2 Site and Vicinity General Characteristics

The Property is located in a mixed commercial and residential neighborhood comprised of businesses and office buildings fronting Portola Drive, with residences situated behind these on side streets, including 38th Avenue. The parcel adjacent to the Property to the east is occupied by a self-storage business. Parcels across Portola Drive to the north are occupied by an auto repair shop and chiropractor clinic. A small convenience store occupies the parcel to the west of the Property across 38th Avenue.

3.3 Topography

The Property location is shown on the Soquel, California Quadrangle of the United States Geologic Survey (USGS) 7.5-minute topographic map series (Figure 1). Surface topography in the Property vicinity is generally flat. Surface elevation at the Property is approximately 45 feet above mean sea level (msl). Other than the Pacific Ocean, located approximately 1,200 feet to the southeast, the nearest surface water relative to the Property is Moran Lake, a coastal lagoon located approximately one-half mile to the west of the Property.

3.4 Geology and Hydrogeology

The Property is situated on a broad marine terrace and is set back approximately 1,200 feet to the northwest from the Pacific Ocean. The Property and vicinity are underlain by terrace (alluvial) deposits: silt, clay, sand, and gravel, with finer-grained clays, silts, silty clays, sandy silts, and sandy clays to approximately ten feet below ground surface (bgs). The terrace deposits are underlain by the Purisima Formation, which is the uppermost bedrock unit consisting of interbedded mudstones, siltstones, and fine-grained sandstones. Based on topography and available records from other nearby properties, the direction of local shallow groundwater flow is predominantly south to southeast.

3.5 Current Property Uses

The Property is currently vacant.

3.6 Property Improvements

The Property is improved with a single-story warehouse-style building with mezzanine levels in the north portion and alongside the east and west walls of the structure. A sloped roof on the western side of the building forms a canopy over areas formerly used for lumber and machinery storage. The building is of wood frame construction with interior walls constructed of either wood or sheetrock. A single toilet restroom is present in the southwest corner of the building. Former lumber storage racks constructed of wood and built upon bare soil are present along the east and west interior walls of the building. Flooring in the main portion of the building is either paved with concrete, asphalt, or is bare soil. Flooring within interior office/administrative areas is either concrete, or covered in linoleum or carpet. Large sliding doors are present near the southwest corner and front of building on north side. An asphalt-paved parking area fronts the Property building adjacent to Portola Drive. The drive through alongside where lumber was formerly stored and the area at the southeast corner of the Property is paved in asphalt. A chain link fence borders the east, south, and west of the Property.

A site map is presented as Figure 2; site photographs are presented as Attachment A.

3.6.1 Utilities

Property water, sewer, storm drain, and solid waste services are provided by Santa Cruz Municipal Utilities; and electricity is provided by Pacific Gas and Electric.

3.7 Current Uses of Adjoining Properties

A public storage facility occupies the parcel adjacent to the east of the Property. The parcel to the south of the Property is occupied by a dwelling. An auto repair shop occupies the parcel to the north of the Property across Portola Drive. A convenience store occupies the parcel to the west of the Property across 38th Avenue.

4.0 USER PROVIDED INFORMATION

According to ASTM E 1527-05 and E 1527-13, in order to qualify for one of the Landowner Liability Protections (LLPs)² offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user (or person relying on a Phase I ESA) must provide certain information (if available) to the environmental professional preparing the report. Mr. Franklin Loffer provided answers to the ASTM Standard E1527-05 User Questionnaire (which remains the same in the E 1527-13 Standard) on behalf of the user. The following summarizes information provided in response to this questionnaire.

4.1 Title Records

RRM verified through the SCCAO the Property APNs and the current title fee holders. However, RRM did not review a title report during the compilation of this ESA.

4.2 Environmental Liens or Activity and Use Limitations

Mr. Loffer indicated that to the best of his knowledge, there are no environmental liens or AULs related to the Property.

4.3 Specialized Knowledge

Mr. Loffer indicated that he does not have any specialized knowledge or experience that is material to recognized environmental conditions in connection with the Property (as defined in 40 CFR 312.28).

4.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information that is material to recognized environmental conditions in connection with the Property as defined in 40 CFR 312.28 was known by Mr. Loffer or discovered during this assessment.

4.5 Valuation Reduction for Environmental Issues

Mr. Loffer indicated that the purchase price of the Property reasonably reflects fair market value.

² 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.

4.6 Owner, Property Manager, and Occupant Information

Santa Cruz County Assessor confirms the current Property owners are Kenneth H. DeFrees, Trustee, and Phyllis M. Wagner, Trustee.

4.7 Reason for Performing Environmental Site Assessment

The purpose of this ESA was to determine the potential for soil and groundwater contamination resulting from the use of hazardous substances or petroleum products on or near the Property. The ESA was performed at the request of Mr. Loffer, managing member of North Point Investments, who is considering purchasing the Property.

4.8 Review of Previous Environmental Reports

There were no previous environmental reports available for the Property.

4.9 Permits and Hazardous Materials Management Plans (HMMP)

There are no current permits for hazardous materials handling and/or storage, or HMMP plans related to the Property. Permits and HMMP plans used in the former lumber retail business at the Property are discussed in Section 5.2.1 of this report.

5.0 RECORDS REVIEW

The purpose of the records review was to obtain and review records in order to identify recognized environmental conditions associated with the Property and conditions on surrounding properties that may have resulted in contamination to soil or groundwater at the subject Property. Information obtained from the following sources has been incorporated into this assessment:

- EDR Radius Map™ Report
- Santa Cruz County Environmental Health Services File Review
- State Water Resources Control Board GeoTracker database
- Interviews with Persons Knowledgeable About the Property History
- Historical Topographic Maps
- Historical Aerial Photographs
- Historical Address Listings

5.1 Standard Environmental Record Sources

5.1.1 EDR Radius Map™ Report Summary

EDR provides a research service that examines databases maintained by the U.S. Environmental Protection Agency (US EPA), the California Department of Toxic Substances Control (DTSC), California Environmental Protection Agency (Cal-EPA), California Integrated Waste Management Board, California Department of Health Services (Cal-DHS), the California State Water Resources Control Board

(SWRCB), and other federal, local and state agencies. Listed below is a summary of findings of the EDR Radius Map™ Report. The search radius for each database is specified in ASTM standard E 1527-05 and E 1527-13 (for the ASTM specified Federal, State, and Local records) or was determined by EDR based on the type of records searched. Additional information regarding the databases searched, including the search radius for each database, can be obtained from the EDR Radius Map™ Report, which is included as Attachment B.

Review of readily ascertainable information from governmental environmental databases resulted in the following listings:

EDR RECORDS SEARCH SUMMARY FINDINGS						
Database		Number of Sites	Includes Property?			
State Site Mitigation and Brownfields Reuse Prog. (ENVIROSTOR)	1	1	No			
State Leaking Underground Storage Tank List (LUST)	0.5	7	No			
Spills, Leaks, Investigations & Cleanup Program (SLIC)	0.5	2	No			
The Facility Inventory Database (CAL FID UST)	0.25	3	No			
Database of Historic UST Sites (HIST UST)	0.25	2	No			
Statewide Environmental Eval. and Planning System (SWEEPS UST)	0.25	3	No			
Hazardous Waste & Substance Site List (HIST CORTESE)	0.25	4	No			
Certified Unified Program Agency (CUPA)	0.25	5	No			
EDR List of Historical Auto Stations (EDR US Hist Auto Stat)	0.25	6	No			
EDR List of Historical Dry Cleaners (EDR US Hist Cleaners)	0.25	2	No			

In addition to the databases listed above, EDR searched several others in which no listings were found within the specified search radii. A list of the databases with no sites included at or near the Property is included on Page 2 in the executive summary of EDR's Radius Map Report in Attachment B. Several of the 35 database entries represented above are for sites listed in multiple databases.

5.1.2 Orphan Sites and Review of EDR Site Listing Relevance

EDR's report also contained a list of orphan sites. EDR could not pinpoint the location of these sites from location information contained in the databases. There were five orphan sites listed. Of the five unique orphan site listings, based on our experience and familiarity with the area, none of the orphan listings appeared to be the Property or located near the Property.

5.1.3 Subject Property

The Property address was not reported in connection with any of the database listings in the EDR Radius Map Report.

5.1.4 EDR Sites of Potential Concern

Of the 35 EDR listings within the nominal reporting distances, based on our experience, the physical and geological characteristics of the Property and its environs, the proximity of specific sites to the Property, and the status of the environmental issues at these sites, RRM considered the following sites to be of potential concern:

- 1. 3801 Portola Drive, Portola Arco, Ed's Portola Arco
- 2. 3912 Portola Drive, Walter Eller Properties
- 3. 3690 Portola Drive, Neighborhood U-Serve-N-Save
- 4. 4000 Portola Drive, Former Chevron #3-2436
- 5. 4001 Portola Drive, Opal Cliffs Auto Center
- 6. 3501 Portola Drive, Emile's Sports Car Performance, Inc.

These sites are discussed separately in the following sections.

5.2 Additional Files Reviewed

Based on a review of the listings in the EDR report, RRM determined that the files for six of the EDR listed sites warranted further review. RRM researched these sites by reviewing available information from Santa Cruz County Environmental Health Services (SCCEHS). Two sites warranting further review were also found in the State Water Resources Control Board GeoTracker database³, a publicly accessible database containing all recent⁴ reports pertaining to soil and groundwater contamination cases in the State. The additional information obtained from these sources is summarized below.

5.2.1 Santa Cruz County Environmental Health Services

5.2.1.1 Former Location of Pleasure Point Lumber Co., Big Creek Lumber, 3800 Portola Drive, Santa Cruz

This site is the subject Property. According to records available at SCCEHS, one of the former businesses at the Property, Big Creek Lumber, operated under a Hazardous Materials Management Plan (HMMP) permit issued in August 2008. Permits issued to this business at this location prior to 2008 were not available in the files at SCCEHS. Big Creek Lumber had noted on a chemical inventory form that small quantities of hazardous materials were being stored and used on the Property. Materials included clean engine oil, transmission, hydraulic, and brake fluids, antifreeze, gasoline, chain saw oil, propane, and grease. The largest container of hazardous materials was a 288-gallon propane storage tank. The materials were used for lubrication, power, and maintenance of saws, forklifts, and other equipment used in the lumberyard business. In 2008, Big Creek Lumber relocated. An inspector from SCCEHS visited the Property on June 2, 2009 and confirmed that Big Creek was no longer operating at the Property. The inspector also noted that all the hazardous materials were removed and hazardous wastes were properly disposed.

SCCEHS files contained a copy of an April 14, 2005 letter from the Central Coast Regional Water Quality Control Board (RWQCB) to the Property owner of record. The letter, a copy of which is included in Attachment D, pertained to the discovery of trichloroethylene (TCE) and tetrachloroethylene⁵ (PCE) in groundwater from monitoring wells and exploratory borings installed on parcels to the east of the Property. RWQCB identified the Property as a possible source of the TCE and PCE contamination based on the Property having been used for the storage of hazardous materials, and since the Property

³ geotracker.waterboards.ca.gov/

⁴ Since about 2005, and possibly earlier.

⁵ Also known as perchlorethylene, or "perc".

is up-gradient of the wells where PCE and TCE were detected. The letter directed the Property owner to provide information on the hazardous materials used and stored on the Property, and to provide any environmental reports pertaining to the Property.

There was no other information in SCCHES files reviewed related to the Property, or the former occupants of the Property: Pleasure Point Lumber Co, Ralph's Lawnmower Shop, Big Creek Lumber, and Wellington Energy.

5.2.1.2 Portola Arco Inc., Ed's Portola Arco, 3801 Portola Drive, Santa Cruz

This site is located approximately 100 feet from the Property across Portola Drive to the north, in the assumed up-gradient direction of regional shallow groundwater flow. The site had reportedly been a gasoline service station from the early 1970s to the late 1980s. The site is currently an auto repair facility.

In June 1988, three 2,000-gallon gasoline USTs, one 550-gallon waste oil UST, and associated product piping and dispenser islands were removed from the site. Maximum concentrations of gasoline range total petroleum hydrocarbons (TPHg), benzene, and oil and grease were reported in site soils at 5,800 parts per million (ppm), 2 ppm, and 8,000 ppm, respectively. In August 1989, eight soil borings were installed at the site; three soil borings were converted to groundwater monitoring wells. An additional groundwater monitoring well was also installed. Maximum concentrations of TPHg and benzene in groundwater were 2,250 parts per billion (ppb) and 6.39 ppb, respectively. Monitoring well MW-1 was abandoned shortly after installation, and MW-2 was removed during excavation activities in June 1999. During the excavation event in June 1999, approximately 430 cubic yards of soil was removed from the site and properly disposed. Additional groundwater monitoring wells MW-5, MW-6, MW-7 and EW were installed in 1999. Groundwater monitoring was conducted in the first quarter of 1990 and continued until 2001. Following the second quarter groundwater monitoring event conducted in May 2001, the RWQCB was petitioned for site case closure based on soil and groundwater contamination having reached levels below actionable thresholds.

Two of the groundwater monitoring wells, MW-6 and MW-7, had been installed on the south side of Portola Drive, adjacent to the Property. During the last monitoring event conducted in May 2001, petroleum hydrocarbons were not detected in samples from these wells above laboratory detection limits.

On March 1, 2002, the RWQCB issued a case closure letter stating no further action was required for cleanup at the site, and all groundwater monitoring wells should be properly decommissioned. The groundwater monitoring wells were destroyed on June 10, 2002, and RWQCB issued their final closure letter on September 24, 2002. Based on soil and groundwater conditions at the site during the last monitoring event, and the regulatory status of the site, it is unlikely that fugitive petroleum hydrocarbons from this site are present at the Property.

5.2.1.3 Walt Eller Properties, 3912 Portola Drive, Santa Cruz

This site is located approximately 125 feet to the east of the Property and is listed in the EDR report with a SLIC (Spills, Leaks, Investigations and Cleanup) listing, which is a statewide database of sites where contamination has impacted groundwater. This site was flagged for the SLIC program following the discovery of the chlorinated solvents PCE and TCE in site groundwater monitoring wells intended for

monitoring the petroleum hydrocarbon plume emanating from 4001 Portola Drive. PCE and TCE were initially discovered in July 1996 and during regulator monitoring events until 2000.

In February 1999, additional sampling for chlorinated solvents was conducted to verify the data from previous monitoring events. The highest concentration of PCE was detected in a well located in the southwest corner of the site. The well, designated MW-12, contained 3,000 ppb of PCE. MW-12 is located approximately 135 feet to the east of the Property. TCE was not detected in groundwater during this time.

In August 2003, a limited site investigation was conducted to locate and delineate the source of the chlorinated solvent plume. Three soil borings were installed to the north, east, and south of MW-12. PCE was detected at a maximum concentration of 360 ppb from grab-groundwater samples collected from the borings. In addition, groundwater from MW-12 was analyzed and contained 1,000 ppb PCE. The conclusions from this investigation suggested an aged PCE plume due to the low and trace concentrations of TCE, a breakdown product of PCE. The source of the chlorinated solvents was not discovered during the investigation.

In response to the investigations, RWQCB issued a requirement of the site owner to further investigate the presence of chlorinated solvents on their property by installing additional wells and investigating sites up-gradient. During that time, RRM was a consultant for the owner of 3912 Portola Drive. In a letter dated August 16, 2004, RRM responded to RWQCB's request with the argument that the site was an unlikely source of the chlorinated solvent plume (based on the site's history) and RWQCB should focus their efforts on other nearby properties in their search for a responsible party. Since there was not a response to RRM's letter available in the records at SCCEHS or on Geotracker, RRM contacted Alison Jones, RWQCB's current caseworker for the 3912 Portola Drive case, on November 7, 2013. In response to RRM's inquiry regarding the status of the case, Ms. Jones reported that the source and/or responsible party of the PCE contamination has not yet been identified. Although the SLIC case remains open with RWQCB, they have not issued current requirements to the owner of 3912 Portola Drive for further investigation.

In 2005, RWQCB sent letters to nearby sites, including the subject Property, with orders to supply information regarding the storage and handling practices of hazardous materials. In October 2005, a groundwater monitoring report of wells related to 4000 and 4001 Portola Drive was issued. The report contained data on MW-12 in addition to several wells down-gradient to the south and southeast. PCE and TCE were detected in wells several hundred feet to the south and southeast of MW-12. During the monitoring event, the maximum concentration of PCE was detected in MW-12, at 2,700 ppb. A groundwater concentration map from the report shows the PCE plume extending to the northwest of MW-12 onto the parcel adjacent to the Property to the east, and as far south as Bramble Lane, located to the southeast of the Property.

5.2.1.4 Neighborhood U-Serve-N-Save, 3690 Portola Drive, Santa Cruz

This site is located approximately 375 feet to the west of the Property and is listed in the EDR report with listings related to the site's former use as a gas station. On August 8, 1991, one 12,000-gallon gasoline UST, one 10,000-gallon gasoline UST, one 5,000-gallon gasoline UST, and one 280-gallon waste oil UST were removed from the site.

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At the time the USTs were removed, the soils in the UST pit were determined to be contaminated with petroleum hydrocarbons. Approximately 1,250 cubic yards of soil was removed in an attempt to remove the contamination. Following the UST removals, five groundwater monitoring wells were installed. Over the course of cleanup and monitoring activities at the site, maximum concentrations of TPHg, benzene, and oil and grease in site soils was 6,900 mg/kg, 37 mg/kg, and 23,000 mg/kg, respectively. Maximum concentrations of TPHg and benzene in groundwater were 1,600 ppb and 69 ppb, respectively. MtBE was not detected in soil or groundwater at the site.

In August 1997, two groundwater monitoring wells were removed because they had been installed incorrectly. The remaining three groundwater monitoring wells were removed in April 1998. Based on the soil data from samples collected from borings installed in 1997 and 1998, RWQCB issued a letter dated June 8, 1998 indicating that no further investigation appeared to be warranted at this site. Based on the analytical results from remedial excavation activities performed at this site it is unlikely that petroleum hydrocarbons from this site have impacted the Property.

5.2.1.5 Former Chevron #3-2436, 4000 Portola Drive, Santa Cruz

This site is located approximately 400 feet to the east of the Property, at the southwest corner of Portola Drive and 41st Avenue. A gasoline station had occupied the site from 1953 until 1974. Although data from previous investigations show the possibility of a separate release from this site, RWQCB determined in 2006 that the site across the street at 4001 Portola site was largely responsible for the hydrocarbon plume in the area and directed cleanup orders to the property owner of 4001 Portola Drive. Since that time, corrective action has been focused on the 4001 Portola Drive site. Details for this site are presented below.

5.2.1.6 Opal Cliffs Auto Center, 4001 Portola Drive, Santa Cruz

This site is located approximately 550 feet to the northeast of the Property and is the former location of one 2,000-gallon gasoline UST, two 550-gallon USTs, and one 265-gallon waste oil UST that were removed from the site in August 1992. The site had operated as a gasoline station from 1950 until sometime in the late 1980s.

Subsequent to the UST removals, several investigations have been conducted to delineate the petroleum hydrocarbon plume, which has been determined to be commingled with the plume associated with the former Chevron station at 4000 Portola Drive. Since 1993, twenty-nine soil borings and twenty-nine groundwater monitoring wells have been installed at the site and to the south of the site, in the down-gradient direction of shallow groundwater flow. In addition, several temporary well points and subslab gas probes have been installed during remedial investigations. Maximum concentrations of TPHg, diesel range total petroleum hydrocarbons (TPHd), and benzene in soil were detected at 11,700 ppm, 2,100 ppm, and 130 ppm, respectively. The highest concentrations of petroleum hydrocarbons were detected in soils located southeast of the site, in the down-gradient direction of shallow groundwater flow.

Groundwater monitoring has been conducted on a quarterly or semi-annual basis since 1994. Since that time, the maximum concentrations of TPHg and benzene detected in groundwater are 1,700,000 ppb and 17,000 ppb, respectively. According to data collected by the current environmental consultant for the site, the groundwater hydrocarbon plume is defined to the north, east, south, and west of the site. Although PCE and TCE have been detected in several wells to the south of the site (and to the

southeast of the Property), the source area for these solvents is unknown and is not the focus of monitoring and cleanup activities currently underway at 4001 Portola Drive.

Based on the current site conditions, the regulatory status, and the site's location in the cross-gradient direction of shallow groundwater flow relative to the Property, it is unlikely that petroleum hydrocarbons originating from this site have migrated to the Property.

5.2.1.7 Emile's Sports Car Performance, Inc., 3501 Portola Drive, Santa Cruz

This site is located approximately 950 feet west from the Property, and is the former location of three 4,000-gallon gasoline USTs, one 6,000-gallon gasoline UST, one 5,000-gallon gasoline UST, and one 500-gallon waste oil UST that were removed in February 1991. During UST removal activities, 73 milligrams per kilogram (mg/kg) of motor oil was detected in soil beneath the waste oil UST; petroleum hydrocarbon contamination in the soils beneath the gasoline USTs was not encountered. Petroleum hydrocarbon contamination was discovered in shallow soils beneath product lines and dispensers.

In May 1992, seven soil borings were installed near the former dispenser locations. Maximum concentrations of TPHg in soil was 718 mg/kg. TPHg was detected in groundwater at a maximum concentration of 116,800 ppb. In November 1999, five additional soil borings were installed at and in the site vicinity. During that investigation, TPHg and benzene were detected in soil and groundwater at maximum concentrations of 180 ppb and 0.65 ppb, respectively. Soil samples collected from borings did not contain detectable concentrations of petroleum hydrocarbons.

Based on the investigation conducted in November 1999, no further action was required by RWQCB and SCCEHS in letters dated May 22, 2000 and June 5, 2000. Based on the regulatory history of the site, and the distance of the site from the Property, it is unlikely that petroleum hydrocarbons from this site have impacted the Property.

6.0 HISTORICAL REVIEW

6.1 Physical Setting and Historical Use Sources

Several sources were used to evaluate the physical setting and historical uses of the Property. These sources included historical topographic maps, historical aerial photographs, historical address listings, and interviews with persons knowledgeable about the Property history. The following details RRM's inquiry regarding the physical setting and historical Property uses.

6.1.1 Historical Topographic Maps

Topographic Maps (topos) are created by the United States Geological Survey. Historical topos for the Property and vicinity were obtained from EDR. EDR provided copies of topographic maps for the Property vicinity for the years 1914, 1954, 1968, 1980, 1987, and 1994. Selected details pertaining to the Property vicinity from each map are described below.

1914 (scale: 1:62,500) The Property is shown to the south of Portola Drive and appeared to be undeveloped. An unnamed railroad is shown adjacent to the Property along Portola Drive. The Southern Pacific railroad corridor is shown further to the north of the Property. 38th Avenue appeared to be

constructed to the north of Portola Drive, and is shown developed with several structures (represented by small filled-in squares).

1954 (scale: 1:24,000) Dense development, signified by pink map coloration, is present in the Property vicinity to the south of Portola Drive and to the northeast, which was designated the Opal Cliffs community during that era. The railroad adjacent to Portola Drive shown on the 1914 topo was not present. 38th Avenue is shown to the south of Portola Drive, extending to East Cliff Drive, which follows the contour of the ocean bluffs. Portola Drive is depicted as a secondary highway connecting Capitola to the northeast and Santa Cruz to the west.

1968 (scale: 1:24,000) The features on the 1968 topo were generally the same as shown on the 1954 topo. General development had increased in the area between Portola Drive and the Southern Pacific railroad corridor, which remained to the north of the Property.

1980 (scale: 1:24,000) As above.

1987 (scale: 1:50,000) As above; the extent of development shown is similar to present conditions.

1994 (scale: 1:24,000) As above.

A copy of EDR's Historical Topographic Map Report is presented in Attachment C.

6.1.2 Aerial Photograph Review

RRM reviewed digitized aerial photographs in Google Earth and in the collection maintained by the University of California, Santa Cruz. Aerial photographs of the Property and vicinity were available for the years 1931, 1943, 1956, 1966, 1975, 1984, 1989, 2001, and 2013 (Google Earth). The purpose of the aerial photograph review was to determine historical Property uses and to verify the information collected from other sources. The results of this review are presented below.

April 1, 1931

[Scale: 1:12,000]

The Property vicinity during this era was characterized by large, sparsely developed parcels. The Property itself and parcel adjacent to east appeared to be vacant, undeveloped land. Portola Drive and 38th Avenue appeared to the north and west of the Property, respectively. Parcels to the south of the Property along 38th appeared to be developed with structures that resembled dwellings and associated outbuildings, barns, and/or garages. Several parcels in the vicinity of the Property appeared to be used for agriculture. Parcels to the north of the Property across Portola Drive appeared to be associated with farms or dwellings along 38th Avenue.

October 2, 1943

[Scale: 1:10,000]

By the early 1940s, many of the major roadways and streets that exist today in the Property vicinity had been built. The Property remained vacant, undeveloped land. The parcels to the south of the Property appeared to be occupied by dwellings and buildings that were associated with an orchard. Parcels to the west of the Property across 38th Avenue appeared to be occupied by small structures associated with a dwelling or large barn. Development on parcels to the north, across Portola Drive, had increased during the last decade. Several parcels along 38th Avenue appeared to be developed with farms or dwellings.

June 4, 1956

[Scale: 1:10,000]

Development in the Property vicinity appeared to have increased. The Property appeared to be occupied by a large rectangular building situated on the east half of the parcel. The west portion of the Property appeared to have an access point or driveway leading from 38th Avenue into the parcel. The southerly adjacent parcel appeared to be occupied by a dwelling. Dwellings also appeared to be present to the west along 38th Avenue. Portions of the orchard and associated structures present in 1943 on parcels to the south of the Property appeared to be present. The parcel on the northeast corner of Portola Drive and 38th Avenue appeared to be occupied by two small structures adjacent to a vacant field. The parcel to the west across 38th Avenue appeared to be occupied by a small structure with open space fronting Portola Drive. Other areas in the Property vicinity were developed with structures resembling commercial buildings, dwellings, mobile homes, and small farms.

June 14, 1966

[Scale: 1:3,600]

The Property appeared to be occupied by the same structure as shown on the aerial photograph from 1956. An addition to the structure appeared to be present, built onto the southwest (rear) side of the structure. The structure occupied the majority of the eastern portion of the parcel. A narrow rectangular structure or awning appeared to occupy the southeast corner of the Property, Areas of the Property not occupied by the structure appeared to be used for parking (facing Portola Drive) and storage (facing 38th Avenue). A small rectangular structure appeared to be present on along the western boundary of the Property. The parcel adjacent to the Property to the south appeared to be occupied by the same dwelling as shown in previous photos. The parcel to the west of the Property at the southwest corner of Portola Drive and 38th Avenue appeared to be occupied by a small structure and canopy suggestive of a gas station. The parcel adjacent to the Property to the east appeared to be occupied by a small structure backed by a large, vacant field. Parcels to the north of the Property across Portola Drive appeared generally the same as in the June 4, 1956 aerial photo.

October 14, 1975

[Scale: 1:10,000]

As above, with the exception of Portola Drive, which appeared to have been widened into a divided, four lane road. The parcel adjacent to the Property to the east, as described above, appeared to be occupied by a small structure backed by a large, vacant field with a footpath or unpaved driveway leading from the northwest corner of the parcel to the southeast corner.

April 2, 1984

[Scale: 1:10,000]

The Property appeared to be generally the same as in the aerial photographs from 1966 and 1975. The northwest portion of the Property appeared to be used for storage of lumber, given that a lumber business was operating at the Property during this time. A drive through area appeared to be present between the lumber storage area and the structure. Surrounding parcels appear generally as above.

October 18, 1989

[Scale: 1:12,000]

As above, with the exception of a large, rectangular object resembling a trailer or temporary storage unit that appeared to be present in the vacant field on the easterly adjacent parcel.

June 7, 2001

[Scale: 1:12,000]

With the exception of the area along the northwestern portion of the Property, which appeared to be in use as storage for lumber, the Property and surrounding vicinity appeared as today. The structure and vacant field present on the parcel adjacent to the east of the Property appeared to have been redeveloped with two large structures that are present today. The narrow rectangular structure or awning in the southeast portion of the Property appeared to have been removed.

April 15, 2013 (Google Earth)⁶

The Property and surrounding vicinity appeared as it does today.

6.1.3 City Directories

Polk and Haines City Directories are annual street directories that provide tenant and/or owner information for specific addresses. Listings from the Polk and Haines Directories for the Property and Property vicinity were obtained from the Santa Cruz Public Library (Central Branch) and reviewed in approximate five-year intervals. These directories were reviewed to evaluate former occupants, and thus uses, of the Property.

The first address listing for the Property was in the directory from 1953. Prior directories did not list the Property address. In 1953, Pleasure Point Lumber was listed at 3800 Portola Drive. In the directories from 1956-57, 1959, and 1961, Ralph's Lawn Mower Shop was listed in addition to Pleasure Point Lumber. The directories from 1963, 1968, 1973, 1978, 1982-83, 1988, and 1993 listed only Pleasure Point Lumber at the Property address. In the directories from 1998, 2003, and 2008, Big Creek Lumber was listed at the Property address. The 2009, 2012, and 2013 directories did not list a name or business at 3800 Portola Drive. Directories from 2010 and 2011 were not available.

6.2 Historical Use Summary for the Property

The Property was initially developed sometime in the early 1950s. According to SCCAO, the Property was developed with improvements in 1955; however, in the historical telephone and address directory from 1953, Pleasure Point Lumber was listed for the Property address. Pleasure Point Lumber operated at the Property since the time it was initially developed, and from sometime in the mid-1950s to early 1960s, the Property was also used by a lawn mower shop. Big Creek Lumber operated a lumber retail business at the Property from the mid 1990s until 2008.

In 2009, Big Creek Lumber had been reported to have moved, according to a site inspection conducted on June 2, 2009 by SCCEHS. The inspector from SCCEHS noted in their report that all hazardous materials had been removed. Following Big Creek Lumber's departure from the Property, a PG&E contractor, Wellington Energy, leased the Property until August 2013. Since that time, the Property has been vacant.

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⁶ Google Earth V 7.0.3.8542. (April 15, 2013). 3800 Portola Drive, Santa Cruz, CA. 36deg57'46.63"N 121deg58'01.21"W, Eye alt 1003 feet. DigitalGlobe 2013. http://www.earth.google.com [November 11, 2013].

6.3 Historical Use Summary for Adjacent Parcels

The parcel adjacent to the Property to the east was first developed sometime between 1943 and 1956, when a small structure resembling an outbuilding or shed appeared to occupy the north portion of the parcel on an aerial photograph from 1956. An additional structure appeared to have been built sometime between 1966 and 1975, adjacent to the smaller structure. By 2001, the easterly adjacent parcel appeared to have been developed with the structures that are present today, which are currently used for a self storage business.

The parcel adjacent to the Property to the north across Portola Drive was developed sometime prior to 1956 and had been used as a gasoline station from the early 1970s to the late 1980s. It is currently an auto service shop. The parcel adjacent to the Property to the west, across 38th Avenue, also was a former gasoline station. This service station was not listed in the EDR report and records were not available at SCCEHS. Parcels to the south of the Property have been in continuous use as residences since early in the 1900s. The parcel adjoining the Property to the south was initially developed sometime between 1943 and 1956 with the same dwelling that exists today.

7.0 PROPERTY INSPECTION

7.1 Methodology and Limiting Conditions

The Property was inspected by RRM staff on November 18, 2013. The purpose of the inspection was to further evaluate Property conditions with respect to the current or previous presence of contamination from hazardous materials, petroleum hydrocarbons, and hazardous waste. The Property inspection was limited to areas that were immediately accessible.

7.2 General Site Setting and Observations

The Property is located within a mixed commercial and residential neighborhood within the Pleasure Point district of Santa Cruz, California. The Property is situated on the southeast corner at the intersection of Portola Drive and 38th Avenue. An asphalt-paved parking area fronts the Property building adjacent to Portola Drive. The drive through alongside where lumber was formerly stored and the area at the southeast corner of the Property is paved in asphalt. A chain link fence borders the east, south, and west of the Property.

7.3 Site Improvements and Building Construction

The Property is improved with a single-story warehouse-style building with mezzanine levels in the north portion and alongside the east and west walls of the structure. A sloped roof on the west side of the building is contiguous with a canopy over areas formerly used for lumber and machinery storage. The building is of wood frame construction with interior walls constructed of either wood or sheetrock. A single toilet restroom is present in the southwest corner of the building. Former lumber storage racks constructed of wood and built upon bare soil are present along the building east and west interior walls. Flooring in the main portion of the building is either paved with concrete, asphalt, or is bare soil. Flooring within interior office/administrative areas is either concrete, or covered in linoleum or carpet. Large sliding doors are present near the southwest corner and front of building on north side.

7.3.1 HVAC Systems

The Property building utilizes electric baseboard heating units within office/administrative areas. There are no air conditioners or cooling systems present on the Property.

7.3.2 Elevators and Conveyances

The Property building has no elevators or similar conveyances.

7.3.3 Industrial Equipment / Manufacturing Processes

There was no industrial equipment present at the Property during this assessment.

7.3.4 Radiological Hazards

Radiological hazards are conditions that result from the deposition, storage, or use of radioactive substances that pose a threat to human health or the environment. There were no radiological hazards discovered at the Property or in the vicinity.

7.3.5 Underground Storage Tanks (USTs)

There were no current or former USTs or evidence of current/past USTs observed on the Property or discovered during this assessment.

7.3.6 Aboveground Storage Tanks (ASTs)

There were no ASTs observed on the Property. According to the SCCEH-maintained HMMP file for Big Creek Lumber, a 288-gallon propane tank had been present in the southwest corner of the Property. The propane was reportedly used for fueling the forklifts used in the lumber business.

7.3.7 Hydraulic Lifts and Equipment

Hydraulic equipment was not observed on the Property during this assessment.

7.3.8 Generators and Emergency Power

A pad-mounted rotary phase generator was observed on the Property adjacent to the west exterior wall of the building.

7.3.9 Wastewater Treatment, Clarifiers, Separators

All wastewater generated at the Property is serviced through the city's municipal sewer system. No other wastewater treatment systems, clarifiers, or separators were observed at the Property during the inspection.

7.3.10 Pits, Ponds, Lagoons

No pits or ponds etc., are present.

7.3.11 Septic Systems

No septic systems or evidence of septic systems were observed or discovered on the Property during this assessment.

7.3.12 Stained Soil / Distressed Vegetation

Stained soil and/or distressed vegetation can indicate the presence of contamination or hazardous substances inhibiting the normal growth of plants. RRM observed areas of the Property occupied by bare soil and/or landscaping and did not observe distressed vegetation or stained soil.

7.3.13 Spills, Leaks, Corrosion, and Odors

Other than minor surface staining from water in the restroom, and evidence of water leakage from an ice machine used by a former tenant, RRM did not observe any spills, leaks, corrosion or odors that could indicate the presence of hazardous materials, during the Property inspection.

7.3.14 Cisterns, Sumps, Floor Drains

There were no cisterns or floor drains observed on the Property.

7.3.15 Storm Drains, Other Drains

Roof gutter drains were observed adjacent to the Property building at various exterior locations and emptied into small storm drains outside the building.

7.3.16 Mines, Oil and Gas Wells

There are no documented mines, oil, or gas wells on the Property or nearby the Property.

7.3.17 Pipelines

There are no documented pipelines or other conveyances other than for common utilities (natural gas, water, sewer, electrical) on the Property, or within close enough proximity to affect the Property.

7.3.18 Polychlorinated Biphenyls (PCBs)

PCBs are insulating or coolant fluids that are commonly found in indoor fluorescent light ballasts manufactured before 1979 and in power pole transformers. The Property was initially developed prior to 1978. It is possible that lighting fixtures within the building were manufactured prior to 1979.

7.4 Hazardous Substances in Connection with Identified Uses

Other than minimal amounts of interior and/or exterior paints and cleaning supplies, hazardous substances were not observed on the Property at the time of the Property inspection. All containers of cleaning supplies and paints appeared to be intact and in good condition.

7.5 Unidentified Substance Containers

Unidentified containers were not observed on the Property during the inspection.

7.6 Other Conditions Noted

Based on the age of the Property building, it is possible that some of the construction materials contain asbestos or lead. Sampling for potential asbestos or lead-containing materials was outside the scope of this assessment.

8.0 INTERVIEWS

In an email dated November 7, 2013, RRM contacted Ms. Alison Jones, Staff Environmental Scientist at the Central Coast RWQCB, regarding the solvent plume that is documented on parcels near the Property. RWQCB contacted the owner of the subject Property in a letter dated April 14, 2005 with a request to supply information about the storage and handling of hazardous materials at the Property. At that time, RWQCB was attempting to locate the source of the chlorinated solvents that were discovered in groundwater monitoring wells in the Property vicinity. Ms. Jones stated that the source for the solvents have not yet been identified. Ms. Jones also reported that Mr. Ken DeFrees, owner of the Property, responded to RWQCB's request and supplied information about the hazardous materials storage and handling practices being conducted by Big Creek Lumber, the tenant at the Property during that time. A copy of this correspondence is included in Attachment D.

On November 18, 2013, RRM spoke to Mr. Mike White, Interim Operations Manager for Big Creek Lumber and an employee of the company for approximately 36 years. Mr. White reported that Big Creek Lumber used the Property only for retail sale of lumber; treatment processes of lumber had not been conducted at the Property. Mr. White reported that he was unaware of the presence of any USTs or ASTs, with the exception of an above-ground tank used for propane fuel storage. Mr. White also reported that hazardous materials used at the Property during Big Creek Lumber's tenure were limited to small quantities of lubricants and solvents used in maintaining equipment and machinery.

Mr. Ken DeFrees, one of the current owners of the Property, was interviewed on November 18, 2013, during the site inspection. Mr. DeFrees reported that he purchased the Property in approximately 1979. According to Mr. DeFrees, the Property was used as a lumber retail business since the time it was first developed, in the early 1950s. Mr. DeFrees also reported that Wellington Energy, a contractor for PG&E, leased the Property for approximately two years following Big Creek Lumber's departure. Mr. DeFrees reported that Wellington Energy used the Property for storage of smart meters and service vehicles.

Mr. DeFrees reported that he was not aware of the current or past storage of hazardous materials, other than for the lumberyard businesses, petroleum products, or the use of USTs at the Property. Mr. DeFrees also reported that he was not aware of any liens or governmental notification relating to past or current violations of environmental laws by users of the Property.

9.0 TIER 1 VAPOR ENCROACHMENT SCREEN

Vapor encroachment is the migration of vapors into subsurface soils from on or off-site soils and/or groundwater that is contaminated with petroleum hydrocarbons or other volatile organic compounds. The migration of contaminated vapors into a building or structure can pose a health risk to occupants. To assess for the potential of vapor encroachment, ASTM issued the Standard Guide for Vapor Encroachment Screening (VES) on Property Involved in Real Estate Transactions, ASTM E 2600-10. The guide is intended for use on a voluntary basis by parties who wish to conduct a VES on a parcel of real estate to determine if a vapor encroachment condition (VEC) exists at the parcel. The VES consists \Project\IA710 P1ESAreport.doc

of two tiers of screening. Tier 1 consists of an initial, non-invasive approach using similar methodology as performing a Phase I ESA. If the Tier 1 screening cannot rule out the possibility of a VEC, then a Tier 2 screening can be conducted.

RRM conducted a Tier 1 VES on the Property in general accordance with ASTM E 2600-10 and has identified one site within the area of concern (AOC). The AOC is a radius of approximately one-third of a mile around the Property; governmental records should be reviewed for any sites of potential concern within the AOC.

Sites With Potential for a Vapor Encroachment Condition within the Area of Concern

3912 Portola Drive – Walter Eller Properties

The Walter Eller Properties site is discussed in section 5.2.1.3 of this report and is within one-third of a mile from the Property. PCE and TCE have been detected in groundwater samples from a monitoring well located approximately 135 feet away from the southeastern border of the Property, and in other wells and test borings located further south and southeast of this well. Based on this finding, a VEC at the Property cannot be ruled out.

9.1 Additional Information Used in VES Determination

To further determine the likelihood of a VEC existing at the Property, RRM reviewed additional information as outlined in ASTM E 2600-10.

9.1.1 Geological and Soil Characteristics

The Property and surrounding vicinity are situated on a marine terrace that is characterized by unconsolidated alluvial deposits (silt, clay, sand, gravel, with finer-grained clays, silts, silty clays, sandy silts, and sandy clays) to a depth of approximately ten feet bgs. Below the alluvial deposits is the Purisima Formation, which generally is non-water bearing at its uppermost level. Such soils are generally of moderate to high permeability, and are typically permeable to migrating soil vapors.

9.1.2 Contaminant Characteristics

The primary contaminant of concern of this VES is PCE (perchlorethylene, tetrachloroethylene), which is a non-flammable, colorless liquid that is approximately 60% more dense than water. In the vapor phase, it has a sharp, sweet odor that can be detected at 50 parts per million, and from a liquid volatilizes rapidly to the atmosphere from water and soil (EPA, 1994). Because of its relative density to water, PCE released into groundwater will dissolve and continue to migrate (sink) downward until it reaches an aquitard, or barrier, and will then migrate laterally or pool in one or more area(s), continuing to dissolve into surrounding groundwater.

PCE degrades or naturally attenuates via a dechlorinization process through metabolic functions of microbes (bacterial organisms) present in the subsurface. PCE can persist in groundwater for long periods of time because the degradation process requires anaerobic conditions, or environments without oxygen. These anaerobic environments tend to be less prevalent in shallow subsurface soils where shallow groundwater is being recharged, and thus oxygenated, more rapidly than in deeper zones.

9.1.3 Contaminated Plume Migration

The migration properties of a PCE plume can be influenced by several factors. The soil type, presence of preferential pathways such as utility trenches, the quantity of the release, and duration of the release are some of the various factors that affect the migration of PCE in the subsurface. In some cases, PCE plumes can extend as long as a mile from the original source (SCVWD, 2007).

According to recent conversations with RWQCB regarding the PCE plume to the east and south of the Property, the source of the PCE has not yet been identified. The findings from previous investigations into the PCE plume suggest the source is likely up-gradient (to the northwest) of the well that is 135 feet southeast from the Property. PCE has also been detected in groundwater monitoring wells on sites further southeast of the Property, which indicates the PCE is migrating southeastward, in the general direction of regional shallow groundwater flow. The findings of this Phase I ESA indicate the Property is not a likely source of the PCE contamination. Based on investigations conducted on nearby sites, the most recent data from groundwater monitoring performed on nearby sites, and the direction of regional shallow groundwater flow, it is likely the PCE is migrating through groundwater down-gradient from a source to the northwest of the Property.

9.1.4 Significant and/or Preferential Pathways for Contaminant Migration

A significant or preferential pathway is the path of least resistance for migration of a liquid or vapor. In soil, a preferential pathway is usually a permeable layer that readily permits the flow or water or vapor. Faults, cracks (such as in a building foundation or in piping), pipes, and utility trenches lined with permeable material can also act as significant conduits for the migration of contaminants. Other than subsurface utility corridors beneath Portola Drive and 38th Avenue, there are no known significant or preferential pathways associated with the Property.

9.1.5 Groundwater

Shallow groundwater flow in the Property vicinity is predominantly to the southeast. The Property appears to be down-gradient of the likely location of the PCE source.

10.0 FINDINGS

The following summarizes the information obtained from the historic record review, aerial photograph review, topographic map review, address listings, interviews, Property inspection, and regulatory agency file review.

The Property is comprised of two parcels totaling approximately 35,370 square feet situated on the southeast corner of the intersection of Portola Drive with 38th Avenue, in the unincorporated Pleasure Point district of Santa Cruz, Santa Cruz County, California. The Property location is shown on the Soquel, California Quadrangle of the USGS 7.5-minute topographic map series (Figure 1). Surface topography in the Property vicinity is generally flat. Surface elevation at the Property is approximately 45 feet above msl. Other than the Pacific Ocean, located approximately 1,200 feet to the southeast, the nearest surface water relative to the Property is Moran Lake, a coastal lagoon located approximately one-half mile to the west of the Property.

The Property is improved with a single-story warehouse-style building with mezzanine levels in the north portion and alongside the east and west walls of the structure. A sloped roof on the western side of the building is contiguous with a canopy over areas formerly used for lumber and machinery storage. The building is of wood frame construction with interior walls constructed of either wood or sheetrock. A single toilet restroom is present in the southwest corner of the building. Former lumber storage racks constructed of wood and built upon bare soil are present along the east and west interior walls of the building. Flooring in the main portion of the building is either paved with concrete, asphalt, or is bare soil. Flooring within interior office/administrative areas is either concrete, or covered in linoleum or carpet. Large sliding doors are present near the southwest corner and front of building on north side. An asphalt-paved parking area fronts the Property building adjacent to Portola Drive. The drive through alongside where lumber was formerly stored and the area at the southeast corner of the Property is paved in asphalt. A chain link fence borders the east, south, and west of the Property. The Property building is currently vacant.

Historic street directories, historical aerial photographs, county regulatory files, and interviews with the current Property owner and former tenant were used to determine historic Property uses. From these sources it was determined that the Property was developed in the early 1950s for use as a retail lumber business. Prior to its development, the Property appeared to be vacant land. Pleasure Point Lumber operated at the Property since the time it was initially developed, and from sometime in the mid-1950s to early 1960s, the Property was also used by a lawn mower shop. Big Creek Lumber operated a lumber retail business at the Property from the mid 1990s until 2008. In 2009, Big Creek Lumber had been reported to have moved, according to a site inspection conducted on June 2, 2009 by SCCEHS. The inspector from SCCEHS noted in their report that all hazardous materials had been removed. Following Big Creek Lumber's departure from the Property, a PG&E contractor, Wellington Energy, leased the Property until August 2013. Since that time, the Property has been vacant.

Other than minimal amounts of interior and/or exterior paints and cleaning supplies, hazardous substances were not observed on the Property at the time of the Property inspection. All containers of cleaning supplies and paints appeared to be intact and in good condition.

Based on the findings of government database research, several sites were identified in the vicinity of the Property where known recognized environmental conditions were present. A file review for the subject Property and sites in the Property vicinity conducted at SCCEHS indicated that it is likely that contaminants from an unidentified source in the Property vicinity have migrated onto the Property.

According to records available through SCCEH and GeoTracker, the chlorinated solvents PCE and TCE have been detected in monitoring wells down-gradient of the Property; the closest monitoring well to the Property is approximately 135 feet to the east of the Property. The source of the chlorinated solvent plume has not yet been identified. Based on the findings of this Phase I ESA, and the direction of regional shallow groundwater flow (documented to the south and southeast), it is likely the source of the PCE and TCE is located to the northwest of the Property.

To address the likelihood that PCE and TCE have impacted the Property, RRM conducted a Tier 1 Vapor Encroachment Screen (VES) on the Property in general accordance with ASTM Standard E 2600-10. Although the source of the PCE and TCE contamination has not yet been identified, based on review of available governmental records documenting conditions at this site, it is RRM's opinion that a vapor

encroachment condition (VEC) likely exists at the Property resulting from these contaminants migrating through groundwater.

11.0 OPINION

RRM has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of 3800 Portola Drive, Santa Cruz, California; Assessors Parcel Numbers 032-092-01 and 032-092-05 (the Property). Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

We offer the following opinion as to whether this inquiry, conducted in accordance with 40 CFR Part 312, has identified conditions indicative of releases or threatened releases of hazardous substances, pollutants, contaminants, petroleum and petroleum products, and controlled substances on, at, in, or to the subject Property.

- This assessment has revealed no evidence of recognized environmental conditions in connection with the Property.
- Based on information in the EDR report, site investigation and remediation documents available in the GeoTracker database, and from SCCEH for environmental conditions at nearby sites, it appears that contaminants from an off-Property, unknown source, may have impacted, or have the potential to impact the Property.

12.0 CONCLUSIONS AND RECOMMENDATIONS

This Phase I ESA documents groundwater conditions at nearby sites that indicate the Property has potentially been impacted with tetrachloroethylene (PCE). If a greater degree of certainty is desired regarding the concentrations of PCE that may exist in soil, soil gas, and/or groundwater beneath the Property, a limited subsurface investigation should be performed.

Based on the age of the Property building, it is possible that some of the construction materials contain asbestos or lead. An asbestos and lead survey should be conducted prior to any demolition, remodeling, or maintenance that may disturb these materials.

13.0 QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

The following describes the specific qualifications of the environmental professionals who performed this assessment. Further detail regarding these qualifications can be obtained by contacting RRM.

- Steven Clark is a California State Registered Professional Geologist, Certified Hydrogeologist, and former Registered Environmental Assessor⁷. Mr. Clark has been performing site assessments, investigations, and development and implementation of corrective action measures at contaminated sites for over 20 years. Mr. Clark received his Bachelor of Science degree in Geology from Humboldt State University in 1985.
- Cate Townsend is an RRM Staff Geologist and received her Bachelor of Science degree from the University of California at Santa Cruz in 1996 and has been performing work involved with environmental site assessments and remediation since 1998.

We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional pursuant to 40 CFR Part 312. We have the specific qualifications based on education, training, and experience to assess a property regarding its nature, history, and setting.

Sincerely,

RRM, Inc.

Steven D. Clark

Professional Geologist

Certified Hydrogeologist

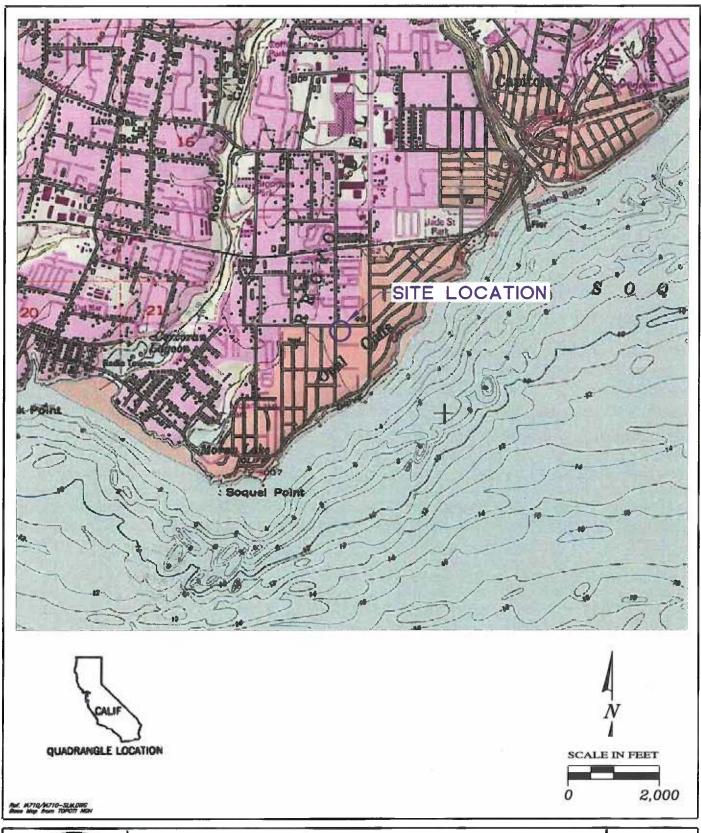
Cate Townsend Geologist

Formerly Registered Environmental Assessor (REA 1) 30196, the REA program was terminated as of July 1, 2012, with the passage of State Senate Bill 1018.

14.0 REFERENCES

The following references were used in inquiry related to this assessment:

- American Society for Testing and Materials, Standard Practice E 1527-05
- American Society for Testing and Materials, Standard Practice E 1527-13
- Environmental Data Resources, Inc. (EDR), The EDR Radius Map Report 3779737.2s;
 November 7, 2013
- EDR, The EDR Historical Topographic Map Report, 3779737.4, November 7, 2013
- United States Geological Survey, Soquel, California Quadrangle of the USGS 7.5-minute topographic map series, 1954; photo revised 1994
- Santa Cruz County Assessors Office; Selected Records
- Santa Cruz County Environmental Health; Selected Records
- State of California Water Resources Control Board GeoTracker Database; Selected Records
- RRM, Inc., Soil and Water Investigation Report, Walt Eller Properties, November 19, 2003
- RRM, Inc., Walt Eller Properties, 3910 Portola Drive, Santa Cruz, California, August 16, 2004
- Santa Clara Valley Water District (SCVWD), Study of Potential for Groundwater Contamination from Past Dry Cleaner Operations in Santa Clara Valley, 2007, (SCVWD, 2007)
- Environmental Protection Agency (EPA), Chemical Summary for Perchloroethylene, August 1994, (EPA, 1994)



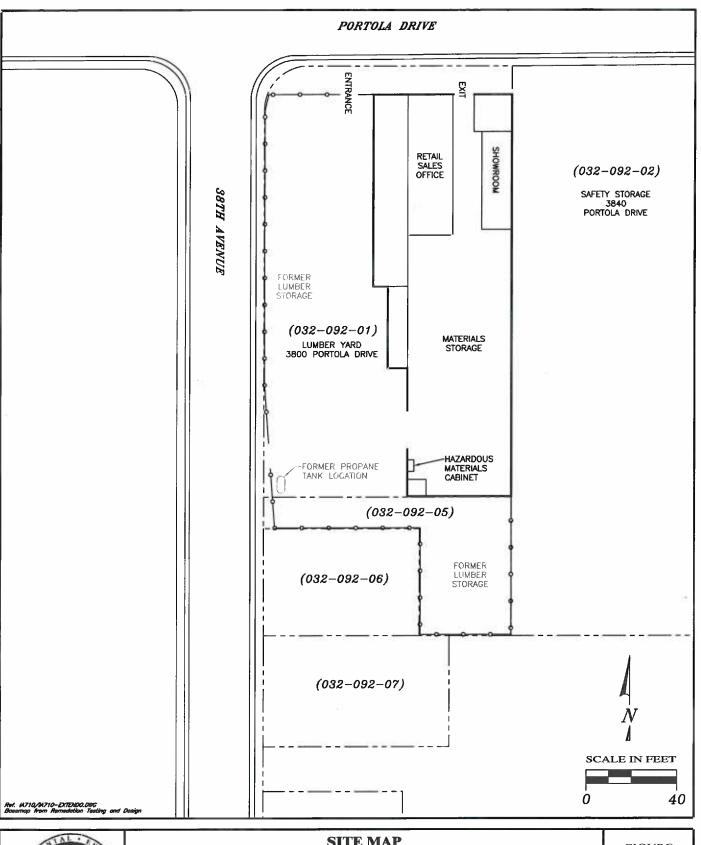


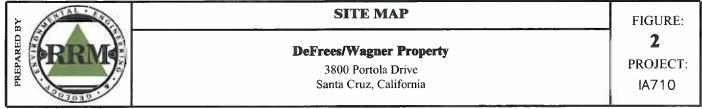
SITE LOCATION MAP

DeFrees/Wagner Property

3800 Portola Drive Santa Cruz, California FIGURE:

1 PROJECT: IA710



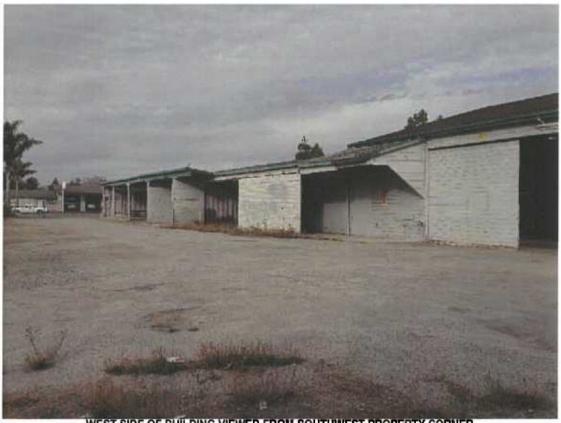




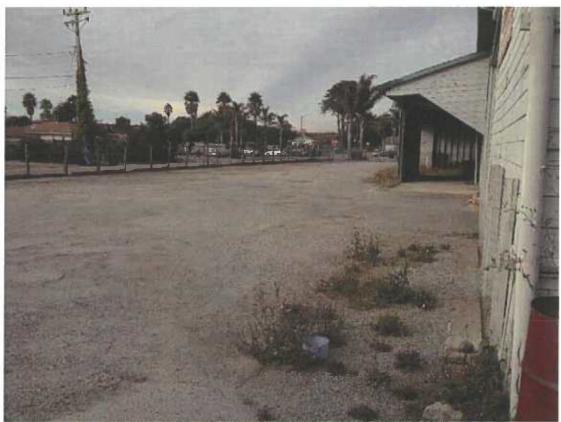
PROPERTY INSPECTION PHOTOGRAPHS



OVERVIEW OF PROPERTY, VIEWED TO SOUTHWEST FROM ACROSS PORTOLA DRIVE



WEST SIDE OF BUILDING VIEWED FROM SOUTHWEST PROPERTY CORNER

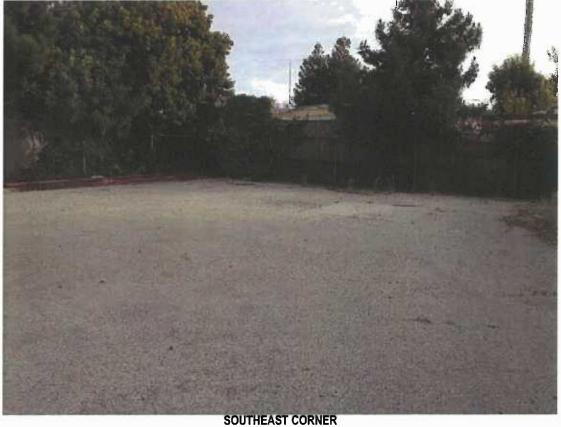


BUILDING WEST SIDE, SHOWING FORMER LUMBER STORAGE AREA



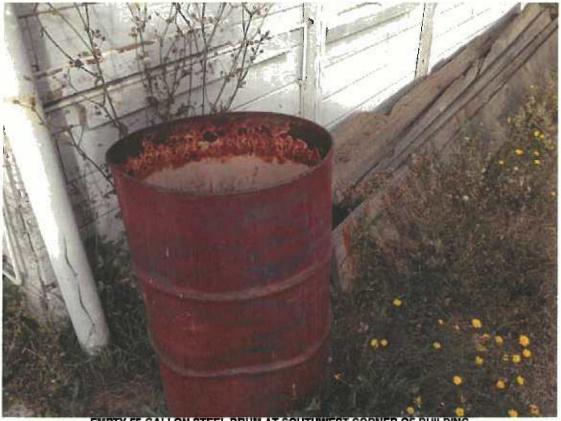


BUILDING SOUTH SIDE VIEWED FROM SOUTHEAST PROPERTY CORNER





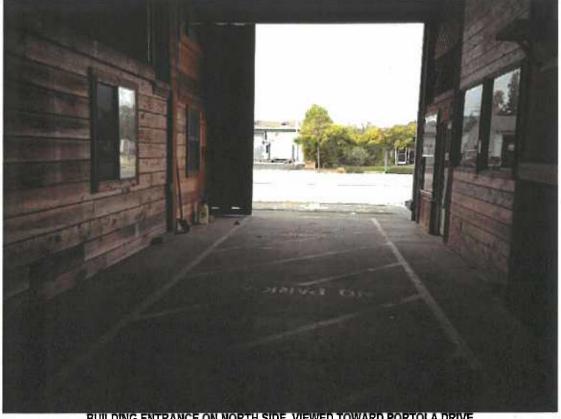
BOX PLANTER IN FORMER LOCATION OF PROPANE TANK ON SOUTHWEST PROPERTY CORNER



EMPTY 55-GALLON STEEL DRUM AT SOUTHWEST CORNER OF BUILDING



ROTARY PHASE GENERATOR ADJACENT TO WEST SIDE OF BUILDING



BUILDING ENTRANCE ON NORTH SIDE, VIEWED TOWARD PORTOLA DRIVE



OFFICE AND SHOWROOM FOR FORMER BUSINESS, BIG CREEK LUMBER



BUILDING OFFICES



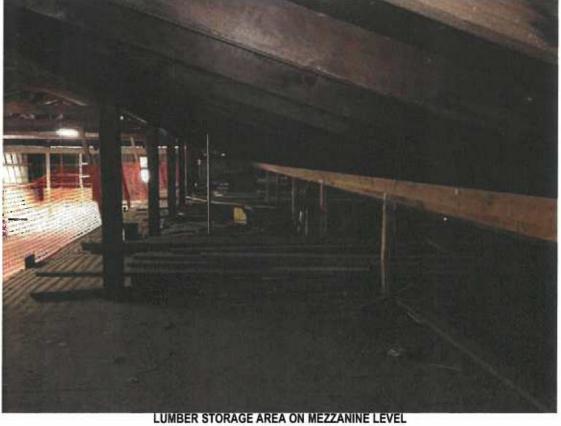
BUILDING OFFICES

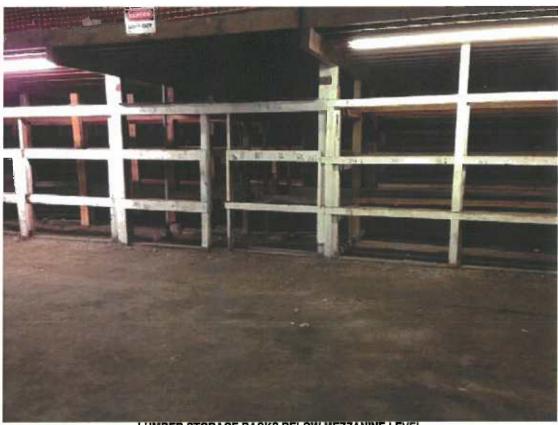


MEZZANINE LEVEL IN WEST INTERIOR OF BUILDING

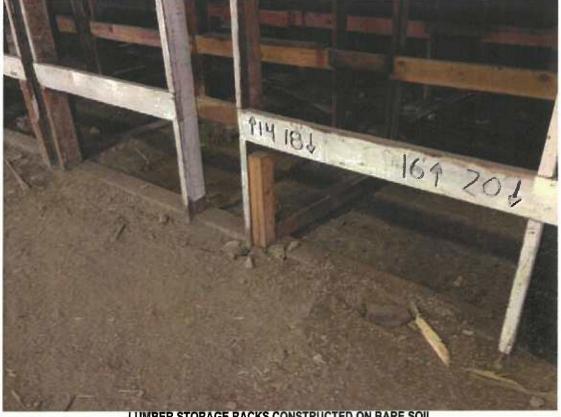


PAINT BUCKETS STORED ON MEZZANINE LEVEL





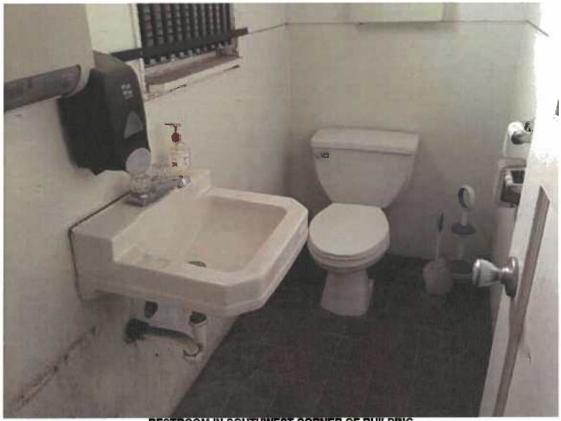
LUMBER STORAGE RACKS BELOW MEZZANINE LEVEL



LUMBER STORAGE RACKS CONSTRUCTED ON BARE SOIL



SOUTHEAST PORTION OF BUILDING



RESTROOM IN SOUTHWEST CORNER OF BUILDING



BUILDING INTERIOR, SOUTHWEST CORNER

B

EDR RADIUS MAPTM REPORT WITH GEOCHECK®

3800 Portola Drive 3800 Portola Drive Santa Cruz, CA 95062

Inquiry Number: 3779737.2s

November 07, 2013

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3800 PORTOLA DRIVE SANTA CRUZ, CA 95062

COORDINATES

Latitude (North): Longitude (West): 36.9634000 - 36° 57' 48.24" 121.9673000 - 121° 58' 2.28"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 591933.2 UTM Y (Meters): 4091107.2

UTM Y (Meters): Elevation:

47 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Most Recent Revision: 36121-H8 SOQUEL, CA

1994

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:

2012

Source:

USDA

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPI	National Priority Lis

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 CORRACTS facilities list CORRACTS...... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG.....RCRA - Large Quantity Generators RCRA-SQG_____RCRA - Small Quantity Generators RCRA-CESQG......RCRA - Conditionally Exempt Small Quantity Generator Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL...... Sites with Institutional Controls LUCIS.....Land Use Control Information System Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent NPL RESPONSE...... State Response Sites State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Information System State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists UST...... Active UST Facilities

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

State and tribal voluntary cleanup sites

Voluntary Cleanup Program Properties 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

Open Dump Inventory

DEBRIS REGION 9. Torres Martinez Reservation Illegal Dump Site Locations WMUDS/SWAT. Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI_____ Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs HIST Cal-Sites Database SCH...... School Property Evaluation Program Toxic Pits Cleanup Act Sites

CDL Clandestine Drug Labs
US HIST CDL National Clandestine Laboratory Register

Local Land Records

LIENS 2 CERCLA Lien Information LIENS_____Environmental Liens Listing DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System CHMIRS...... California Hazardous Material Incident Report System

LDS..... Land Disposal Sites Listing MCS..... Military Cleanup Sites Listing SPILLS 90. SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR RCRA - Non Generators DOT OPS..... Incident and Accident Data DOD..... Department of Defense Sites

FUDS....... Formerly Used Defense Sites
CONSENT...... Superfund (CERCLA) Consent Decrees

US MINES..... Mines Master Index File TRIS...... Toxic Chemical Release Inventory System TSCA...... Toxic Substances Control Act Act)/TSCA (Toxic Substances Control Act) Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....FIFRA/TSCA Tracking System Administrative Case Listing SSTS..... Section 7 Tracking Systems ICIS_____Integrated Compliance Information System PADS PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO..... Radiation Information Database FINDS_____Facility Index System/Facility Registry System RAATS______RCRA Administrative Action Tracking System

RMP..... Risk Management Plans CA BOND EXP. PLAN...... Bond Expenditure Plan

UIC Listing

NPDES Permits Listing

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites

Cortese "Cortese" Hazardous Waste & Substances Sites List Notify 65...... Proposition 65 Records

DRYCLEANERS Cleaner Facilities

WIP..... Well Investigation Program Case List

ENF..... Enforcement Action Listing HAZNET Facility and Manifest Data EMI..... Emissions Inventory Data INDIAN RESERV......Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

COAL ASH DOE...... Steam-Electric Plant Operation Data

COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List HWT..... Registered Hazardous Waste Transporter Database

HWP_____ EnviroStor Permitted Facilities Listing Financial Assurance Financial Assurance Information Listing

LEAD SMELTERS..... Lead Smelter Sites

2020 COR ACTION...... 2020 Corrective Action Program List

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

PRP..... Potentially Responsible Parties WDS Waste Discharge System EPA WATCH LIST EPA WATCH LIST

US FIN ASSUR Financial Assurance Information PCB TRANSFORMER PCB Transformer Registration Database

PROC..... Certified Processors Database

MWMP_____ Medical Waste Management Program Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

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

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

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

A review of the ENVIROSTOR list, as provided by EDR, and dated 09/05/2013 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OPAL CLIFFS SCHOOL SITE	4400 JADE STREET	NE 1/2 - 1 (0.613 mi.)	24	41
Status: No Further Action				

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 09/16/2013 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORTOLA ARCO	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A 3	10
ED'S PORTOLA ARCO Status: Completed - Case Closed	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A5	12
CHEVRON SS #3-2436 (FORMER) Status: Completed - Case Closed	4000 PORTOLA DR	E 0 - 1/8 (0.076 mi.)	11	19
OPAL CLIFFS AUTO CENTER Status: Open - Remediation	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C14	25
OPAL CLIFFS AUTO	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C15	34
Lower Elevation	Address	Direction / Distance	Map ID	Page
NEIGHBORHOOD U-SERVE-N-SAVE Status: Completed - Case Closed	3690 PORTOLA DR	W 0 - 1/8 (0.071 mi.)	B10	16

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMILE'S SPORTS CAR PERFORMANCE	3501 PORTOLA DR	W 1/8 - 1/4 (0.179 mi.)	E21	37
Status: Completed - Case Closed				

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 09/16/2013 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WALTER ELLER PROPERTIES Facility Status: Open - Site Assessment	3912 PORTOLA DRIVE	E 0 - 1/8 (0.041 mi.)	A6	14
Lower Elevation	Address	Direction / Distance	Map ID	Page
PLEASURE POINT ROADHOUSE PROPE Facility Status: Completed - Case Closed	3905 E CLIFF DR	S 1/4 - 1/2 (0.279 mi.)	23	41

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORTOLA ARCO INC. OPAL CLIFFS AUTO CENTER	3801 PORTOLA DR 4001 PORTOLA DR	E 0 - 1/8 (0.035 mi.) E 0 - 1/8 (0.105 mi.)	A1 C13	8 23
Lower Elevation	Address	Direction / Distance	Map ID	Page
NEIGHBORHOOD U-SERVE-N-SAVE	3690 PORTOLA DR	W 0 - 1/8 (0.071 mi.)	B9	15

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORTOLA ARCO INC. OPAL CLIFFS AUTO CENTER	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A2	9
	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C14	25

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PORTOLA ARCO INC.	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A1	8
OPAL CLIFFS AUTO CENTER	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C13	23
Lower Elevation	Address	Direction / Distance	Map ID	Page
NEIGHBORHOOD U-SERVE-N-SAVE	3690 PORTOLA DR	W 0 - 1/8 (0.071 mi.)	B10	16

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ED'S PORTOLA ARCO	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A5	12
OPAL CLIFFS AUTO CENTER	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C14	25
				_
Lower Elevation	Address	Direction / Distance	Map ID	Page

CUPA Listings: 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.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 5 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ED'S PORTOLA ARCO	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A5	12
VERIZON WIRELESS - PORTOLA & 4	3840 PORTOLA DR	SE 0 - 1/8 (0.057 mi.)	8	15
OPAL CLIFFS AUTO CENTER	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C14	25
Lower Elevation	Address	Direction / Distance	Map ID	Page
GLENN P DAVIS AUTO REPAIR	3505 PORTOLA DR #B	W 0 - 1/8 (0.123 mi.)	D18	37
EMILE'S SPORTS CAR PERFORMANCE	3501 PORTOLA DR	W 1/8 - 1/4 (0.179 mi.)	E21	37

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 6 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	3801 PORTOLA DR	E 0 - 1/8 (0.035 mi.)	A4	11
Not reported	4001 PORTOLA DR	E 0 - 1/8 (0.105 mi.)	C16	35
Not reported	4180 COURT DR	ESE 1/8 - 1/4 (0.173 mi.)	20	37
Lower Elevation	Address	Direction / Distance	Map ID	Page
Lower Elevation Not reported	Address 3505 PORTOLA DR	Direction / Distance W 0 - 1/8 (0.123 mi.)	Map ID D17	Page 36
				

EDR US Hist 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.

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page 23	
Not reported	890 38TH AVE	N 0 - 1/8 (0.081 mi.)	12		
Lower Elevation	Address	Direction / Distance	Map ID	Page	
Not reported	3621 PORTOLA DR	W 0 - 1/8 (0.055 mi.)	В7	15	

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

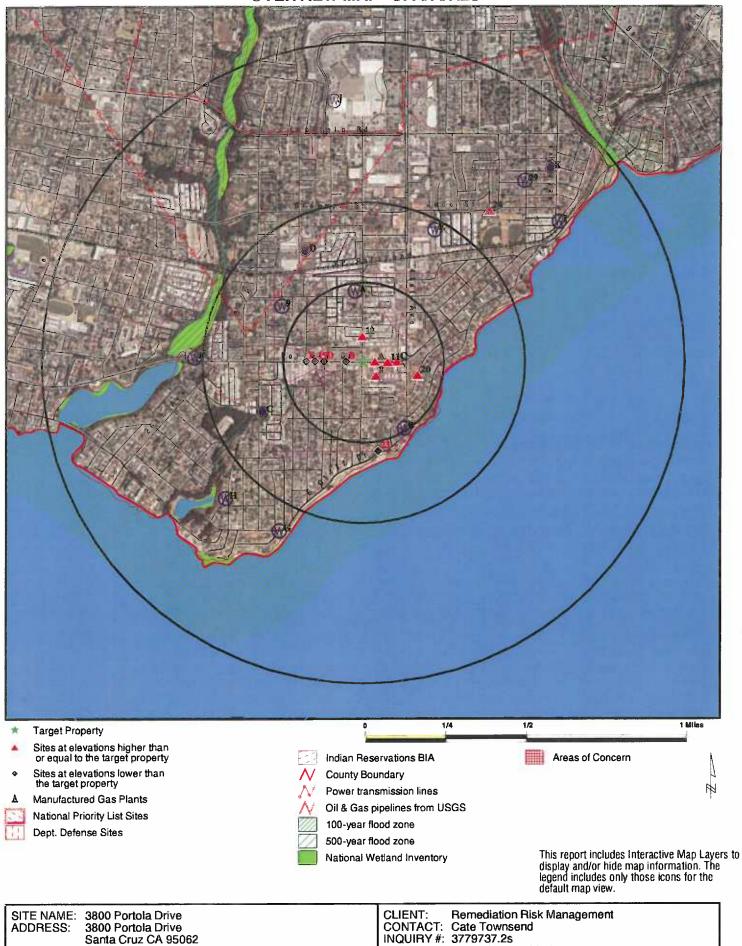
Site Name

SCCSD RIO PUMPING STATION
PG&E - OPAL CLIFFS SUBSTATION
NEW BRIGHTON PUMPING STATION
EAST CLIFF DRIVE CLEANERS
CALIFORNIA DEPARTMENT OF TRANSPORT

Database(s)

HIST CORTESE, LUST CUPA Listings UST HAZNET RCRA-SQG

OVERVIEW MAP - 3779737.2s



LAT/LONG:

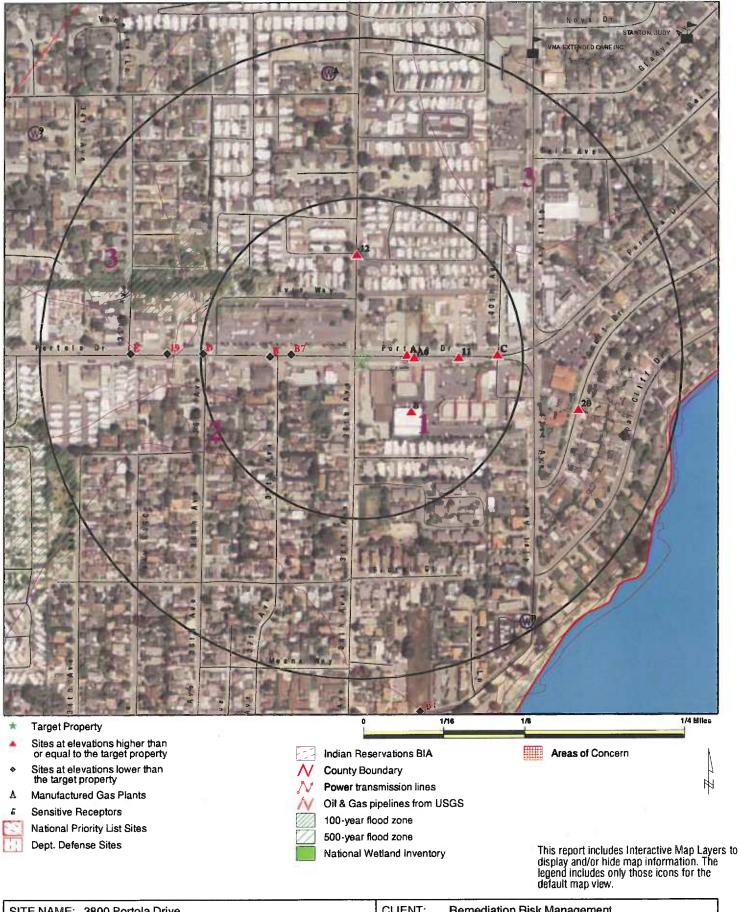
36.9634 / 121.9673

Copyright © 2013 EDR, Inc. © 2010 Tels Atlas Rei. 07/2009.

November 07, 2013 2:22 pm

DATE:

DETAIL MAP - 3779737.2s



SITE NAME: 3800 Portola Drive ADDRESS: 3800 Portola Drive Santa Cruz CA 95062 LAT/LONG: 36.9634 / 121.9673

Remediation Risk Management

CLIENT: CONTACT: INQUIRY #: Cate Townsend 3779737.2s

DATE: November 07, 2013 2:26 pm

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.000		0	0	.0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0
Federal CERCLIS NFRAI	P site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva	lent CERCLIS	;						
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking s	torage tank li	sts						
LUST	0.500		6	1	0	NR	NR	7

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC INDIAN LUST	0.500 0.500		1 0	0 0	1 0	NR NR	NR NR	2 0
State and tribal register	ed storage tar	nk lists						
UST AST INDIAN UST FEMA UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
State and tribal volunta	ry cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
ADDITIONAL ENVIRONME	NTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
ODI DEBRIS REGION 9 WMUDS/SWAT SWRCY HAULERS INDIAN ODI	0.500 0.500 0.500 0.500 TP 0.500		0 0 0 0 N R 0	0 0 0 0 NR 0	0 0 0 0 NR 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	s waste /							
US CDL HIST Cal-Sites SCH Toxic Pits CDL US HIST CDL	TP 1.000 0.250 1.000 TP TP		NR 0 0 0 NR NR	NR 0 0 0 NR NR	NR 0 NR 0 NR NR	NR 0 NR 0 NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Registere	d Storage Tan	ks						
CA FID UST HIST UST SWEEPS UST	0.250 0.250 0.250		3 2 3	0 0 0	NR NR NR	NR NR NR	NR NR NR	3 2 3
Local Land Records								
LIENS 2 LIENS DEED	TP TP 0.500		NR NR 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
Records of Emergency	Release Repo	rts						
HMIRS CHMIRS LDS	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS	TP		NR	NR NR	NR NR	NR NR	NR NR	0 0
SPILLS 90	TP		NR	INIX	INIX	MIX	INIX	U
Other Ascertainable Rec				•	NB	ND	NID	0
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR NR	0 0
DOT OPS	TP		NR 0	NR 0	NR 0	NR 0	NR NR	0
DOD FUDS	1.000 1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	ŏ	Ö	NR	ŏ
ROD	1.000		ŏ	ŏ	ő	Ŏ	NR	Ō
UMTRA	0.500		0	Ō	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR NR	0
SSTS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
ICIS PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	Ö
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	ΝR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR 0	NR NR	NR NR	0 0
Cortese HIST CORTESE	0.500 0.500		0 3	0 1	0	NR	NR	4
CUPA Listings	0.250		4	1	NR	NR	NR	5
Notify 65	1.000		ō	Ö	0	0	NR	Ö
DRYCLEANERS	0.250		Ŏ	Õ	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0 NID	0 NR	0 NR	NR NR	NR NR	0 0
COAL ASH DOE COAL ASH EPA	TP 0.500		NR 0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	ő
HWP	1.000		Ő	-0	0	0	NR	Ö
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NŘ	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR NB	NR	NR NR	NR NR	0 0
EPA WATCH LIST	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
US FIN ASSUR PCB TRANSFORMER	TP		NR	NR NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PROC MWMP	0.500 0.250		0	0	0 NR	NR NR	NR NR	0 0
EDR HIGH RISK HISTORICA	AL RECORDS							
EDR Exclusive Records								
EDR MGP EDR US Hist Auto Stat EDR US Hist Cleaners	1.000 0.250 0.250		0 3 2	0 3 0	0 NR NR	0 NR NR	NR NR NR	0 6 2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Elevation Site

Database(s)

CA FID UST

SWEEPS UST

EDR ID Number EPA ID Number

S101625344

N/A

A1 PORTOLA ARCO INC.

East < 1/8

3801 PORTOLA DR SANTA CRUZ, CA 95062

0.035 mi.

187 ft. Site

Site 1 of 6 in cluster A

Relative:

CA FID UST:

Higher
Actual:

48 ft.

Facility ID: 44000087 Regulated By: UTNKA Regulated ID: 00050210

Regulated ID: 00050210 Cortese Code: Not reported SIC Code: Not reported

SIC Code: Not reported
Facility Phone: 4084757227
Mail To: Not reported
Mailing Address: 3801 PORTOLA DR

Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA CRUZ 95062

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: 50210
Number: 9

Board Of Equalization: 44-027141
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 12-31-88
Tank Status: A

Owner Tank Id: 1

Swrcb Tank Id: 44-000-050210-000001

 Actv Date:
 07-01-85

 Capacity:
 2000

 Tank Use:
 M.V. FUEL

Stg: F

Content: REG UNLEADED

Active

Number Of Tanks: 3

Status:

 Comp Number:
 50210

 Number:
 9

 Board Of Equalization:
 44-027141

 Referral Date:
 07-01-85

 Action Date:
 Not reported

 Created Date:
 12-31-88

Tank Status: A
Owner Tank Id: 2

Swrcb Tank Id: 44-000-050210-000002

 Actv Date:
 07-01-85

 Capacity:
 2000

 Tank Use:
 M.V. FUEL

 Stg:
 P

 Content:
 LEADED

 Number Of Tanks:
 Not reported

MAP FINDINGS

Map ID Direction Distance

Elevation Site

Database(s)

EDR ID Number **EPA ID Number**

S101625344

HIST UST U001602036

N/A

PORTOLA ARCO INC. (Continued)

Status: Comp Number: Active

50210 9

Number:

Board Of Equalization: 44-027141

Referral Date:

07-01-85

Action Date:

Not reported

Created Date:

12-31-88

Tank Status: Owner Tank Id: Α 3

Swrcb Tank Id:

44-000-050210-000003

Actv Date:

07-01-85

Capacity:

1000

OIL

Tank Use:

W

Stg: Content:

WASTE OIL

Number Of Tanks:

Not reported

A2

PORTOLA ARCO INC.

East < 1/8 3801 PORTOLA DR

0.035 mi.

SANTA CRUZ, CA 95062

187 ft.

Site 2 of 6 in cluster A

Relative:

Higher

HIST UST:

Region: Facility ID: STATE

00000050210 Facility Type: Other

Actual: 48 ft.

REPAIR FACILITY

Other Type: Total Tanks:

0003

Contact Name:

NATHAN YOUNG 4084757227

Telephone: Owner Name:

NATHAN YOUNG

Owner Address:

3801 PORTOLA DRIVE

Owner City,St,Zip:

SANTA CRUZ, CA 95062

Tank Num:

001

Container Num: Year Installed:

1974

Tank Capacity:

00002000 PRODUCT

Tank Used for:

UNLEADED

Type of Fuel:

Not reported

Tank Construction: Leak Detection:

Stock Inventor, None

Tank Num: Container Num:

2

002 1974

Year Installed: Tank Capacity:

00002000

Tank Used for:

PRODUCT

Type of Fuel:

REGULAR Not reported

Tank Construction: Leak Detection:

Stock Inventor, None

Tank Num:

003

Container Num:

Year Installed:

1974

Tank Capacity:

00001000

Tank Used for:

WASTE

Map ID MAP FINDINGS

Direction Distance Elevation

Site

Database(s)

EDR ID Number EPA ID Number

U001602036

LUST \$105124613

N/A

PORTOLA ARCO INC. (Continued)

Type of Fuel:

WASTE OIL

Tank Construction:

Not reported

Leak Detection:

Stock Inventor, None

A3 East < 1/8 **PORTOLA ARCO**

3801 PORTOLA DR SANTA CRUZ, CA 95062

0.035 mi.

187 ft.

Site 3 of 6 in cluster A

Relative: Higher

LUST REG 3:

Region: Regional Board:

Actual: 48 ft.

Facility County:

Central Coast Region Santa Cruz

Global ID: Status:

T0608700294 Case Closed

Case Number:

895

Tank

Local Case Num:

Not reported

Case Type: Substance: 0 Gasoline Not reported

Quantity: Abatement Method:

No Action Taken - no action has as yet been taken at the site

Leak Source: Leak Cause:

Corrosion

How Stopped: How Discovered: Not reported ОМ

Release Date: Discovered Date: Enter Date:

02/02/1990 Not reported 12/24/1990 Not reported

Stop Date: Review Date: Enforce Date:

Close Date:

09/20/2002 Not reported 9/20/02

Enforcement Type:

CLOS

Responsible Party: RP Address:

3801 PORTOLA DRIVE 3801 PORTOLA DRIVE

Contact: Cross Street:

Not reported 38TH

Local Agency: Lead Agency:

44000 Regional Board

Staff Initials:

TAS

Confirm Leak: Workplan: Prelim Assess: Not reported Not reported Not reported 03/26/1992

Pollution Char: Remedial Plan: Remedial Action:

Not reported Not reported 08/10/1999 UST

Pilot Program: Interim Action: Funding:

Monitoring:

Not reported

MTBE Class:

Not reported

Max MTBE Grnd Wtr: 8

Max MTBE Soil: Max MTBE Data:

Not reported 12/05/2000

MTBE Tested:

YES

Lat/Long:

36.96349843 / -121.9672436

Soil Qualifier:

Not reported

Map ID MAP FINDINGS

Direction Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

S105124613

PORTOLA ARCO (Continued)

Grnd Wtr Qualifier:

Mtbe Concentratn:

Mtbe Fuel:

10

Org Name: Basin Plan: Not reported 4.11

Beneficial:

MUN

Priority:

Not reported UST Cleanup Fund ID: Not reported

Suspended:

Not reported

Operator: Water System: Not reported Not reported

Well Name:

Not reported

Distance From Well:

Assigned Name:

Not reported

Summary:

RWQCB REQUESTED MORE INFORMATION ABOUT THE LATERAL EXTENT OF

PETROLEUM PRODUCT CONTAMINATION.3/15/99: DOWNGRADIENT EXTENT OF GW CONTAMINATION DEFINED.4/1/99: WORKPLAN APPROVED FOR SOIL & EXCAVATION

AND GW EXTRACTION ACTIVITIES, M.WELL REPLACEMENT. NOT

Α4

EDR US Hist Auto Stat 1015458569

N/A

East < 1/8 3801 PORTOLA DR

0.035 mi.

SANTA CRUZ, CA 95062

187 ft.

Site 4 of 6 in cluster A

Relative:

EDR Historical Auto Stations:

Higher

Name: Year:

EDS PORTOLA ARCO

Address:

1999

Actual: 48 ft.

3801 PORTOLA DR

Name:

EDS PORTOLA ARCO

Year:

3801 PORTOLA DR Address:

Name: Year:

EDS PORTOLA ARCO 2001

Address:

3801 PORTOLA DR

Name:

EDS PORTOLA ARCO 2002

Year: Address:

3801 PORTOLA DR

Name:

EDS PORTOLA ARCO

Year:

2003

Address:

3801 PORTOLA DR

Name:

EDS PORTOLA ARCO

Year:

2004

Address:

3801 PORTOLA DR

Name:

EDS PORTOLA ARCO

Year:

Address:

3801 PORTOLA DR

Name:

Year:

EDS PORTOLA ARCO 2006

Address:

3801 PORTOLA DR

MAP FINDINGS Map ID Direction

Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

1015458569 (Continued)

Name:

EDS PORTOLA ARCO 2007

Year:

3801 PORTOLA DR Address:

Name:

EDS PORTOLA ARCO

Year:

2008

3801 PORTOLA DR Address:

Name:

EDS PORTOLA ARCO

Year:

2009

3801 PORTOLA DR Address:

Name:

EDS PORTOLA ARCO

Year:

2010

Address: 3801 PORTOLA DR

Name:

EDS PORTOLA ARCO

Year:

2011

Address:

3801 PORTOLA DR

Name: Year:

EDS PORTOLA ARCO 2012

Address:

3801 PORTOLA DR

ED'S PORTOLA ARCO A5 East 3801 PORTOLA DR

S101309576 N/A

LUST **CUPA Listings**

HIST CORTESE

< 1/8 0.035 mi. 187 ft.

Site 5 of 6 in cluster A

SANTA CRUZ, CA 95062

Relative:

CORTESE:

Higher

Region:

CORTESE

Actual:

Facility County Code: Reg By:

44 LTNKA

Reg Id:

LUST:

895

48 ft.

Region:

STATE

Global Id: Latitude:

T0608700294 36.963498427 -121.96724355

Longitude: Case Type: Status:

LUST Cleanup Site Completed - Case Closed

Status Date:

09/20/2002

Lead Agency:

CENTRAL COAST RWQCB (REGION 3)

Case Worker: Local Agency:

RB Case Number:

SANTA CRUZ COUNTY LOP 895

LOC Case Number:

Not reported

File Location:

State Records Center

Potential Media Affect:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline

Site History:

Not reported

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

Contact:

Global Id:

T0608700294

Map ID Direction Distance Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S101309576

ED'S PORTOLA ARCO (Continued)

Contact Type:

Regional Board Caseworker

Contact Name: TOM SAYLES

CENTRAL COAST RWQCB (REGION 3) Organization Name:

Address: 895 AEROVISTA PL, SUITE 101

SAN LUIS OBISPO City:

Email: tsayles@waterboards.ca.gov

Not reported Phone Number:

T0608700294 Global Id:

Contact Type: Local Agency Caseworker

SCOTT CARSON Contact Name:

Organization Name: SANTA CRUZ COUNTY LOP Address: 701 Ocean Street, Room 312

SANTA CRUZ City:

Email: scott.carson@co.santa-cruz.ca.us

Phone Number: Not reported

Status History:

T0608700294 Global Id:

Completed - Case Closed Status:

Status Date: 09/20/2002

T0608700294 Global Id:

Status: Open - Case Begin Date

02/02/1990 Status Date:

Global Id: T0608700294

Open - Site Assessment Status: 03/26/1992

Status Date:

T0608700294 Global Id:

Status: Open - Verification Monitoring

08/10/1999 Status Date:

Regulatory Activities:

Global Id: T0608700294 **ENFORCEMENT** Action Type:

Date: 09/20/2002

Closure/No Further Action Letter Action:

Global Id: T0608700294 **ENFORCEMENT** Action Type: 03/01/2002 Date:

Action: Staff Letter

T0608700294 Global Id: RESPONSE Action Type: 08/01/2002

Date: Action: Well Destruction Report

Global Id: T0608700294

Other Action Type: 01/01/1950 Date: Leak Reported Action:

MAP FINDINGS Map ID

Direction Distance

Elevation Site

EDR ID Number Database(s) **EPA ID Number**

ED'S PORTOLA ARCO (Continued)

S101309576

CUPA SANTA CRUZ:

Facility Id: Region:

FA0002674 SANTA CRUZ

Cross Street:

38TH ST

Description:

HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

Facility Id:

FA0002674 SANTA CRUZ

Region: Cross Street:

38TH ST

Description:

HMMP STANDARD FORM FILING FEE

A6

WALTER ELLER PROPERTIES

S106455277

N/A

SLIC

East < 1/8

3912 PORTOLA DRIVE SANTA CRUZ, CA 95062

0.041 mi.

217 ft.

Site 6 of 6 in cluster A

Relative: Higher

SLIC:

Region:

STATE

Actual:

Facility Status:

Open - Site Assessment 05/04/2004

48 ft.

Status Date: Global Id:

SL0608738858

Lead Agency:

CENTRAL COAST RWQCB (REGION 3)

Lead Agency Case Number:

Not reported 36.9631118598906

Latitude: Longitude: Case Type:

-121.966502666473 Cleanup Program Site

Case Worker:

DS Not reported

Local Agency: RB Case Number:

S315 Not reported

File Location: Potential Media Affected:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Not reported

Site History:

Not reported

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

SLIC REG 3:

Region:

Leak Site Cross Street: RB Case In:

Not reported S315

Entered Into Database:

Not reported

Discovered:

Not reported WALT ELLER COMPANY

RB Case In:

Responsible Party: RP Contact:

PATTI ELLER ROBB Not reported Not reported

RP Phone: RP Number:

Not reported 3912 PORTOLA DRIVE SUITE 4

RP Address: RP City, St, Zip:

SANTA CRUZ, CA 95062

Date First Reported: Lead Agency:

Not reported

Regional Board

Program Type:

SLIC

Facility Status: Case Type:

Pollution Characterization

Case Type Undetermined:

Other ground water affected

Case Type Soil Impacted:

No Nο Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S106455277

1015049585

N/A

WALTER ELLER PROPERTIES (Continued)

Case Type Drinkin Water Well: Case Type Drinking Water Aqfr:

No No

Case Type Other Grnd Wtr:

Case Type Surface Water:

Yes

PCA:

Not reported

B7

EDR US Hist Cleaners

West < 1/8

3621 PORTOLA DR SANTA CRUZ, CA 95062

0.055 mi.

289 ft.

Site 1 of 3 in cluster B

Relative:

EDR Historical Cleaners:

Lower

Name:

Year: Address:

1999 3621 PORTOLA DR

Actual: 45 ft.

> LAUNDRY WORKS Name:

Year:

2001 Address: 3621 PORTOLA DR

Name:

LAUNDRYWORKS

LAUNDRYWORKS NO 2

Year: Address:

3621 PORTOLA DR

Name:

LAUNDRYWORKS

Year:

2009

Address:

3621 PORTOLA DR

SE

VERIZON WIRELESS - PORTOLA & 40TH 3840 PORTOLA DR

CUPA Listings S112832999

CA FID UST \$101594706

N/A

N/A

< 1/8 0.057 mi. SANTA CRUZ, CA 95062

300 ft.

Relative:

CUPA SANTA CRUZ:

Higher

Facility Id:

Region:

FA0007271 SANTA CRUZ

Actual:

Cross Street:

MAIN ST

47 ft.

Description:

HMMP SHORT FORM BASE FEE

В9 West **NEIGHBORHOOD U-SERVE-N-SAVE**

3690 PORTOLA DR SANTA CRUZ, CA 95060

< 1/8 0.071 mi.

375 ft.

Site 2 of 3 in cluster B

Relative:

CA FID UST:

Lower

Facility ID:

Regulated By:

44000116 UTNKI

Actual:

Regulated ID:

45 ft.

Not reported

Cortese Code:

Not reported

SIC Code: Facility Phone: Not reported

Not reported

Mail To:

Not reported

MAP FINDINGS Map ID

Direction Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

S101594706

NEIGHBORHOOD U-SERVE-N-SAVE (Continued)

Mailing Address: Mailing Address 2: POBOX Not reported

Mailing City, St, Zip:

SANTA CRUZ 95060

Contact:

Not reported

Contact Phone:

Not reported

DUNs Number: NPDES Number: Not reported Not reported

EPA ID:

Not reported Not reported

Comments: Status:

Inactive

B10

NEIGHBORHOOD U-SERVE-N-SAVE

HIST CORTESE \$102434305

West < 1/8

3690 PORTOLA DR

LUST

N/A

SANTA CRUZ, CA 95062

SWEEPS UST

0.071 mi. 375 ft.

Site 3 of 3 in cluster B

Relative:

CORTESE:

Lower

Region: Facility County Code: CORTESE

Actual:

Reg By:

44

45 ft. Reg Id: LTNKA 1097

LUST:

Region:

STATE

Global Id:

T0608700018 36.9634109

Latitude: Longitude:

-121.9685579 LUST Cleanup Site

Case Type: Status:

Completed - Case Closed

Status Date:

06/08/1998

Lead Agency:

CENTRAL COAST RWQCB (REGION 3) BWH

Case Worker: Local Agency: RB Case Number:

Not reported 1097

LOC Case Number:

Not reported Not reported

File Location: Potential Media Affect:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline

Site History:

Not reported

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

Status History:

Global Id:

T0608700018

Status:

Completed - Case Closed

Status Date:

06/08/1998

Global Id:

T0608700018

Status:

Open - Case Begin Date

Status Date:

09/22/1989

Global Id:

T0608700018

Status:

Open - Remediation

Status Date:

10/02/1995

Global Id:

T0608700018

Status:

Open - Site Assessment

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S102434305

NEIGHBORHOOD U-SERVE-N-SAVE (Continued)

Status Date:

07/09/1991

Global Id:

T0608700018

Status:

Open - Site Assessment

Status Date:

10/05/1993

Global Id:

T0608700018

Status:

Open - Site Assessment

Status Date: 01/20/1994

Global Id:

T0608700018

Status: Status Date: Open - Verification Monitoring

08/30/1996

Regulatory Activities:

Global Id:

T0608700018

Action Type: Date:

ENFORCEMENT 06/08/1998

Action:

Closure/No Further Action Letter

Global Id:

T0608700018

Action Type:

ENFORCEMENT

Date:

04/15/1998

Action:

Closure/No Further Action Letter

Global Id: Action Type: T0608700018 Other

Date: Action:

01/01/1950 Leak Reported

LUST REG 3:

Region:

Regional Board:

Central Coast Region

Facility County: Global ID:

Santa Cruz T0608700018

Status: Case Number: Case Closed

Local Case Num:

1097 Not reported

Case Type:

0

Substance: Quantity:

Gasoline Not reported

Abatement Method: Leak Source:

U UNK UNK

Leak Cause: How Stopped:

Not reported

How Discovered:

OM

Release Date: Discovered Date: 09/22/1989 Not reported 07/09/1991

Enter Date: Stop Date: Review Date:

Not reported 08/27/1998 Not reported

Enforce Date: Close Date:

6/8/98

Enforcement Type:

Not reported

Responsible Party:

EDWARD W. NESS, JR.

MAP FINDINGS Map ID

Direction Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

S102434305

NEIGHBORHOOD U-SERVE-N-SAVE (Continued)

RP Address:

17291 IRVINE BLVD SUITE 253

Contact:

Not reported Not reported

Cross Street: Local Agency:

44000

Lead Agency:

Regional Board

Staff Initials:

BWH

Confirm Leak: Workplan:

Not reported

Prelim Assess:

10/5/93 1/20/94

Pollution Char: Remedial Plan: 07/09/1991 Not reported

Remedial Action:

10/2/95 08/30/1996

Monitoring: Pilot Program:

UST

Interim Action:

0

Funding:

Not reported

MTBE Class:

Max MTBE Grnd Wtr: Not reported Max MTBE Soil:

Not reported

Max MTBE Data:

MTBE Tested:

NT

Lat/Long:

36.9632908 / -121.9685093

Soil Qualifier:

Not reported

Grnd Wtr Qualifier: Mtbe Concentratn:

Not reported

Mtbe Fuel:

Org Name:

Not reported

Basin Plan:

4.11

Beneficial:

Not reported

Priority:

3A3

UST Cleanup Fund ID: Not reported Suspended:

Not reported

Operator:

Not reported

Water System:

BILL KOCHER

Well Name:

BELTZ WELL 09 - INACTIVE

Distance From Well:

Assigned Name:

4410010-025

Summary:

SEMIANNUAL GW MONITORINGTHIS CASE IS CLOSED

SWEEPS UST:

Status:

Not reported

Comp Number:

19032

Number:

Not reported Not reported

Board Of Equalization:

Not reported

Referral Date: Action Date:

Not reported

Created Date:

Not reported

Tank Status:

Not reported

Owner Tank Id:

Not reported

Swrcb Tank Id: Actv Date:

44-000-019032-000001 Not reported

Capacity:

12000

Tank Use:

M.V. FUEL

Stg:

PRODUCT

Content: Number Of Tanks: LEADED

Map ID Direction Distance

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S102434305

NEIGHBORHOOD U-SERVE-N-SAVE (Continued)

Not reported

Status: Comp Number:

19032

Number:

Elevation

Site

Not reported Not reported

Board Of Equalization: Referral Date:

Not reported

Action Date:

Not reported

Created Date:

Not reported Not reported

Tank Status: Owner Tank Id:

Not reported

Swrob Tank Id:

44-000-019032-000002

Actv Date:

Not reported

Capacity:

10000

Tank Use:

M.V. FUEL **PRODUCT**

Stq: Content:

REG UNLEADED

Number Of Tanks:

Not reported

Status:

Not reported

Comp Number:

19032

Number: Board Of Equalization:

Not reported Not reported

Referral Date:

Not reported

Action Date:

Not reported

Created Date:

Not reported

Tank Status:

Not reported

Owner Tank Id:

Not reported 44-000-019032-000003

Swrcb Tank Id: Actv Date:

Not reported

Capacity:

5000

Tank Use:

M.V. FUEL

PRODUCT

Stg: Content:

LEADED

Number Of Tanks:

Not reported

11

CHEVRON SS #3-2436 (FORMER)

East < 1/8 4000 PORTOLA DR

0.076 mi.

SANTA CRUZ, CA 95062

399 ft.

LUST:

Relative:

Region:

STATE

Higher

Global Id:

T0608799983

Actual: 50 ft.

Latitude:

36.9632618799747

Longitude:

-121.965107917786 LUST Cleanup Site

Case Type: Status:

Completed - Case Closed

Status Date:

08/07/2006

Lead Agency:

CENTRAL COAST RWQCB (REGION 3)

SANTA CRUZ COUNTY LOP

Case Worker: Local Agency:

RB Case Number:

3326

LOC Case Number:

3326

File Location:

Not reported

Potential Media Affect:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline

Site History:

Responsible party transfer to 4001 Portola property site.

LUST \$105050810

N/A

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

CHEVRON SS #3-2436 (FORMER) (Continued)

S105050810

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

Contact:

Site

Global Id:

T0608799983

Contact Type:

Local Agency Caseworker

Contact Name:

SCOTT CARSON

Organization Name:

SANTA CRUZ COUNTY LOP 701 Ocean Street, Room 312

Address: City:

SANTA CRUZ

Email: Phone Number: scott.carson@co.santa-cruz.ca.us

Not reported

Global Id:

Contact Type:

T0608799983 Regional Board Caseworker

Contact Name:

TOM SAYLES

Organization Name:

CENTRAL COAST RWQCB (REGION 3)

895 AEROVISTA PL, SUITE 101 Address:

City:

SAN LUIS OBISPO

Email:

tsayles@waterboards.ca.gov

Phone Number:

Not reported

Status History:

Global Id:

T0608799983

Status: Status Date: Completed - Case Closed

08/07/2006

Global Id:

T0608799983

Status: Status Date: Open - Case Begin Date

10/02/1999

Global Id:

T0608799983

Status:

Open - Site Assessment

Status Date:

10/02/1999

Global Id:

T0608799983

Status:

Open - Verification Monitoring

Status Date:

03/06/2001

Regulatory Activities:

Global Id:

T0608799983 RESPONSE

Action Type: Date:

04/20/2003

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608799983 RESPONSE

Date:

07/20/2003

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608799983 **ENFORCEMENT**

Date:

04/01/2004

Action:

Preparation of Record for Appeal/Referral/Petition

Global Id:

T0608799983

Action Type:

Other

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

S105050810

CHEVRON SS #3-2436 (FORMER) (Continued)

Date:

01/01/1950

Action:

Leak Reported

Global Id:

T0608799983

Action Type:

RESPONSE 01/20/2004

Date: Action:

Monitoring Report - Quarterly

Global Id:

T0608799983 RESPONSE

Action Type: Date:

07/20/2002

Date:

Monitoring Report - Quarterly

Global Id:

T0608799983 RESPONSE

Action Type: Date:

RESPONSE 04/20/2005

Action:

Monitoring Report - Quarterly

Global Id:

T0608799983 ENFORCEMENT

Action Type: Date:

03/06/2001 Staff Letter

Date: Action:

Staff Letter

Global ld: Action Type: T0608799983 Other 01/01/1950 Leak Stopped

Global Id: Action Type:

T0608799983 RESPONSE 10/20/2003

Date: Action:

Date:

Action:

Monitoring Report - Quarterly

Global ld: Action Type: T0608799983 RESPONSE 07/20/2004

Date: Action:

Monitoring Report - Quarterly

Global ld: Action Type:

T0608799983 Other

Action Type: Date: Action:

01/01/1950 Leak Discovery

Global Id: Action Type: T0608799983 RESPONSE 10/20/2002

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608799983 RESPONSE

Date:

01/20/2003

Action:

Monitoring Report - Quarterly

LUST REG 3:

Region:

3

Regional Board:

Central Coast Region

Site

MAP FINDINGS

EDR ID Number **EPA ID Number**

S105050810

Database(s)

CHEVRON SS #3-2436 (FORMER) (Continued)

Facility County:

Santa Cruz

Global ID:

T0608799983

Status:

Post remedial action monitoring

Case Number: Local Case Num: 3326 3326

Case Type:

О

Substance:

Gasoline Not reported

Quantity: Abatement Method:

Not reported

Leak Source:

UNK

Leak Cause:

UNK

How Stopped:

Not reported

How Discovered:

OM

Release Date:

12/01/2000

Discovered Date:

12/1/00

Enter Date:

11

Stop Date: Review Date:

12/1/00 07/22/2002

Enforce Date:

Not reported Not reported

Close Date: **Enforcement Type:**

Responsible Party:

MARK LAFFERTY

RP Address:

6001 BOLLINGER CANYON RD

Contact:

Not reported Not reported

Cross Street: Local Agency:

44000

Lead Agency:

Regional Board

Staff Initials:

TAS

Confirm Leak:

Not reported

Workplan: Prelim Assess: Not reported Not reported

Pollution Char:

10/02/1999

Remedial Plan: Remedial Action: Not reported Not reported

Monitoring:

03/06/2001

Pilot Program:

UST

Interim Action:

Not reported

Funding:

Not reported

MTBE Class: Max MTBE Grnd Wtr:

С 50

Max MTBE Soil:

Not reported

Max MTBÉ Data:

08/16/2002

MTBE Tested:

YES

Lat/Long:

36.96322505 / -121.965521

Soil Qualifier:

Not reported

Grnd Wtr Qualifier:

4

Mtbe Concentratn: Mtbe Fuel:

Not reported

Org Name:

Not reported

Basin Plan: Beneficial:

Not reported

Priority:

Not reported

UST Cleanup Fund ID: Not reported Suspended:

Not reported

Operator:

Not reported

Water System:

Not reported

Well Name:

Not reported

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s)

EDR US Hist Cleaners

CA FID UST

SWEEPS UST

EDR ID Number EPA ID Number

CHEVRON SS #3-2436 (FORMER) (Continued)

S105050810

1015103302

S101625342

N/A

N/A

Distance From Well:

Assigned Name:

Not reported

Summary:

HAZMAT INCIDENT REPORT FILED. NOT FULLY DOWNGRADIENT. MW-13, 14, 15

SAMPLED QUARTERLY AND MW-9, 11, 12 SAMPLED SEMI-ANNUALLY.

12

890 38TH AVE

North < 1/8

SANTA CRUZ, CA 95062

0.081 mi. 429 ft.

Relative:

EDR Historical Cleaners:

Higher

Name:

JASMIN CARPET CLEANING

Year:

2007

Actual: 48 ft.

Address:

890 38TH AVE

Name:

JASMIN CARPET CLEANING

Year:

2008

Address:

890 38TH AVE

Name:

JASMIN CARPET CLEANING

Year:

2009

Address:

890 38TH AVE

C13 East **OPAL CLIFFS AUTO CENTER** 4001 PORTOLA DR

< 1/8

SANTA CRUZ, CA 95062

0.105 mi. 557 ft.

Site 1 of 4 in cluster C

Relative:

CA FID UST:

Higher

50 ft.

Facility ID: Regulated By: 44000711

Actual:

Regulated ID:

UTNKA 00035606

Cortese Code: SIC Code:

Not reported

Facility Phone:

Not reported 4084750284

Mail To:

Not reported 955 HIGH ST

Mailing Address: Mailing Address 2: Mailing City,St,Zip:

Not reported SANTA CRUZ 95062

Contact: Contact Phone: Not reported

DUNs Number:

Not reported

Not reported Not reported

NPDES Number:

Not reported

EPA ID: Comments:

Not reported

Status:

Active

SWEEPS UST:

Status:

Not reported

Comp Number:

35606

Number:

Not reported

Board Of Equalization: Referral Date:

44-034501

Action Date:

Not reported Not reported

Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

OPAL CLIFFS AUTO CENTER (Continued)

S101625342

Created Date:

Tank Status:

Owner Tank Id:

Not reported Not reported Not reported

Swrcb Tank Id:

44-000-035606-000001 Not reported

Actv Date: Capacity:

550

Tank Use:

M.V. FUEL **PRODUCT**

Stg: Content:

REG UNLEADED

Number Of Tanks:

Status: Comp Number: Not reported 35606

Number: Board Of Equalization:

Not reported 44-034501

Referral Date: Action Date: Created Date: Not reported Not reported Not reported Not reported

Tank Status: Owner Tank Id:

Not reported

Swrcb Tank Id:

44-000-035606-000002

Actv Date:

Not reported 550

Capacity:

M.V. FUEL

Tank Use: Stg:

PRODUCT REG UNLEADED

Content: Number Of Tanks:

Not reported

Status:

Not reported

Comp Number: Number:

35606 Not reported

Board Of Equalization: Referral Date:

44-034501 Not reported Not reported

Action Date: Created Date: Tank Status:

Not reported Not reported Not reported

Owner Tank Id: Swrcb Tank Id:

44-000-035606-000003

Actv Date:

Not reported 2000

Capacity: Tank Use:

M.V. FUEL

Stg: Content: **PRODUCT REG UNLEADED**

Number Of Tanks:

Not reported

Status: Comp Number: Not reported 35606

Number: Board Of Equalization:

Not reported 44-034501 Not reported

Referral Date: Action Date: Created Date:

Not reported Not reported Not reported

Tank Status: Owner Tank Id:

Not reported

Swrcb Tank Id:

44-000-035606-000004

Actv Date:

Not reported

Capacity:

265

Map ID MAP FINDINGS Direction

Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

S101625342

OPAL CLIFFS AUTO CENTER (Continued)

Tank Use:

OIL

Stg: Content: WASTE WASTE OIL

Number Of Tanks:

Not reported

Status: Comp Number: Active 35606

Number:

Board Of Equalization:

44-034501

Referral Date:

07-21-92

Action Date:

09-29-92

Created Date:

12-31-88

Tank Status:

Not reported

Owner Tank Id: Swrcb Tank Id:

Not reported

Actv Date:

Not reported Not reported

Capacity: Tank Use: Not reported Not reported

Stg:

Not reported

Content:

Not reported

Number Of Tanks:

Not reported

C14

OPAL CLIFFS AUTO CENTER

HIST CORTESE U001602032

N/A

East < 1/8 **4001 PORTOLA DR** SANTA CRUZ, CA 95062

LUST HIST UST **CUPA Listings**

0.105 mi. 557 ft.

Site 2 of 4 in cluster C

Relative:

CORTESE:

Higher

Region:

CORTESE

Facility County Code: Reg By:

44

Actual: 50 ft.

Reg Id:

LTNKA

2219

LUST:

Region:

STATE

Global Id: Latitude:

T0608700040 36.9636047819141

Longitude: Case Type: -121.965065002441 **LUST Cleanup Site**

Status: Status Date: Open - Remediation 02/11/2011

Lead Agency:

CENTRAL COAST RWQCB (REGION 3)

Case Worker:

Local Agency:

SANTA CRUZ COUNTY LOP

RB Case Number: LOC Case Number:

Not reported

2219

File Location:

Regional Board

Potential Media Affect:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline

Site History:

Cleanup and Abatement Order - Groundwater Monitoring and Sampling

suspended until 1Q 2010 due to funding issues. Reduced to semiannual

monitoring beginning with first quarter 2010 - 9/15/2009

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

Contact:

Global Id:

T0608700040

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

U001602032

OPAL CLIFFS AUTO CENTER (Continued)

Contact Type: Local Agency Caseworker

SCOTT CARSON Contact Name:

Organization Name: SANTA CRUZ COUNTY LOP Address: 701 Ocean Street, Room 312

SANTA CRUZ City:

Email: scott.carson@co.santa-cruz.ca.us

Phone Number: Not reported

T0608700040 Global Id:

Contact Type: Regional Board Caseworker

TOM SAYLES Contact Name:

CENTRAL COAST RWQCB (REGION 3) Organization Name:

Address: 895 AEROVISTA PL, SUITE 101

SAN LUIS OBISPO City: Email:

tsayles@waterboards.ca.gov

Phone Number: Not reported

Status History:

Global Id: T0608700040

Status: Open - Assessment & Interim Remedial Action

Status Date: 02/08/2010

T0608700040 Global Id:

Status: Open - Case Begin Date

08/26/1992 Status Date:

Global Id: T0608700040 Open - Remediation Status:

Status Date: 04/29/2004

T0608700040 Global Id: Status: Open - Remediation

02/08/2010 Status Date:

Global Id: T0608700040 Status: Open - Remediation Status Date: 02/11/2011

T0608700040 Global Id:

Status: Open - Site Assessment

Status Date: 04/22/1994

Global Id: T0608700040

Status: Open - Site Assessment

08/22/2007 Status Date:

T0608700040 Global Id:

Status: Open - Verification Monitoring

Status Date: 04/17/2001

Regulatory Activities:

Global Id: T0608700040 **ENFORCEMENT** Action Type: 11/12/2003 Date:

Action: 13267 Requirement

Site

MAP FINDINGS

EDR ID Number Database(s) EPA ID Number

OPAL CLIFFS AUTO CENTER (Continued)

U001602032

Global Id: Action Type: T0608700040 ENFORCEMENT 08/23/2002

Date: Action:

13267 Requirement

Global Id: Action Type: Date: T0608700040 ENFORCEMENT 09/18/2008 Letter - Notice

Global Id: Action Type: T0608700040 RESPONSE 07/20/2008

Date: Action:

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 01/20/2004

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 04/20/2003

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: Date: T0608700040 REMEDIATION 01/01/1950

Action: Other (Use Description Field)

Global Id: Action Type: T0608700040 RESPONSE 01/20/2007

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 04/30/2008

Date: Action:

Soil and Water Investigation Report

Global Id: Action Type: Date: T0608700040 RESPONSE 10/20/2007

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 ENFORCEMENT 11/06/1997

Date: Action:

13267 Monitoring Program

Global Id: Action Type: T0608700040 ENFORCEMENT 04/29/2002

Date: Action:

13267 Requirement

Global Id: Action Type: T0608700040 ENFORCEMENT Map ID MAP FINDINGS

Direction Distance Flevation

Elevation Site

Database(s)

EDR ID Number EPA ID Number

U001602032

OPAL CLIFFS AUTO CENTER (Continued)

Date: 09/02/2008

Action: 13267 Monitoring Program

 Global Id:
 T0608700040

 Action Type:
 ENFORCEMENT

 Date:
 05/06/2011

 Action:
 Staff Letter

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 04/20/2010

Action: Monitoring Report - Semi-Annually

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 04/20/2008

Action: Monitoring Report - Quarterly

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 10/20/2005

Action: Monitoring Report - Quarterly

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 10/20/2005

Action: Well Installation Report

 Global Id:
 T0608700040

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Reported

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 07/20/2003

Action: Monitoring Report - Quarterly

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 04/20/2003

Action: Well Installation Report

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 01/23/2009

Action: Monitoring Report - Quarterly

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 04/20/2009

Action: Monitoring Report - Quarterly

 Global Id:
 T0608700040

 Action Type:
 RESPONSE

 Date:
 10/20/2003

Action: Monitoring Report - Quarterly

Site

MAP FINDINGS

Database(s)

OPAL CLIFFS AUTO CENTER (Continued)

U001602032

EDR ID Number

EPA ID Number

Global Id:

Action Type:

Date:

T0608700040 RESPONSE

10/20/2010

Action: Monitoring Report - Semi-Annually

Global Id: Action Type: T0608700040 REMEDIATION 01/01/1950

Date: Action:

In Situ Physical/Chemical Treatment (other than SVE)

Global Id: Action Type:

Date: Action: T0608700040 REMEDIATION 01/01/1950

Soil Vapor Extraction (SVE)

Global Id: Action Type: Date:

T0608700040 RESPONSE 05/30/2012

Action:

Pilot Study/ Treatability Report

Global Id: Action Type: Date:

T0608700040 RESPONSE 07/20/2011

Action:

Remedial Progress Report

Global Id: Action Type: Date:

T0608700040 **RESPONSE** 09/30/2008

Pilot Study / Treatability Workplan Action:

Global Id: Action Type: Date:

T0608700040 **ENFORCEMENT** 08/09/2006

Action:

Clean-up and Abatement Order - #RB3-2006-0081

Global Id: Action Type: T0608700040 RESPONSE 07/20/2007

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: Date:

T0608700040 RESPONSE 01/20/2003

Action:

Monitoring Report - Quarterly

Global Id: Action Type: Date:

T0608700040 **RESPONSE** 10/20/2006

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 REMEDIATION 01/01/1950

Date: Action:

Monitored Natural Attenuation

Global Id: Action Type: T0608700040 RESPONSE

MAP FINDINGS

Detail

Database(s) EPA

EDR ID Number EPA ID Number

U001602032

OPAL CLIFFS AUTO CENTER (Continued)

Date:

Site

01/25/2007

Action:

Other Report / Document

Global Id: Action Type: T0608700040 RESPONSE 11/30/2010

Date: Action:

Pilot Study/ Treatability Report

Global ld: Action Type: T0608700040 RESPONSE 04/20/2005

Date:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 ENFORCEMENT 06/20/2008

Date: Action:

13267 Requirement

Global Id: Action Type: T0608700040 ENFORCEMENT 11/27/2006

Date: Action:

Technical Correspondence / Assistance / Other

Global Id: Action Type: T0608700040 ENFORCEMENT 10/22/2008

Date: Action:

13267 Requirement

Global ld: Action Type: T0608700040 RESPONSE 01/31/2011

Date: Action:

CAP/RAP - Other Report - Regulator Responded

Global Id: Action Type: T0608700040 RESPONSE 01/20/2008

Date: Action:

Monitoring Report - Quarterly

Global ld: Action Type: Date: T0608700040 RESPONSE 01/20/2008

Action:

Monitoring Report - Quarterly

Global Id: Action Type: Date: T0608700040 RESPONSE 07/20/2013

Action:

Monitoring Report - Annually

Global Id: Action Type: T0608700040 RESPONSE 07/20/2012

Date: Action:

Monitoring Report - Annually

Global Id: Action Type: Date: T0608700040 RESPONSE 08/04/2008

Action:

Clean Up Fund - 5-Year Review Summary

Site

MAP FINDINGS

EDR ID Number

Database(s) EPA ID Number

OPAL CLIFFS AUTO CENTER (Continued)

U001602032

Global Id: Action Type: T0608700040 RESPONSE 09/22/1992

Date: Action:

Unauthorized Release Form

Global Id: Action Type: T0608700040 RESPONSE 05/11/2010

Date: Action:

Clean Up Fund - 5-Year Review Summary

Global Id: Action Type: Date: T0608700040 RESPONSE 10/04/2012 Correspondence

Global Id: Action Type: T0608700040 RESPONSE 04/20/2004

Date: Action:

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 10/20/2004

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: Date: T0608700040 RESPONSE 10/01/2008

Action: Pilot Study/ Treatability Report

Global Id: Action Type: T0608700040 ENFORCEMENT 08/09/2006

Date: Action:

Action:

Action:

13267 Monitoring Program

Global Id: Action Type: Date: T0608700040 ENFORCEMENT 02/11/2010 13267 Requirement

Global Id: Action Type: Date: T0608700040 ENFORCEMENT 12/09/2008 Staff Letter

Global Id: Action Type: Date: T0608700040 ENFORCEMENT 07/07/2009

Action:

Action:

Technical Correspondence / Assistance / Other

Global Id: Action Type: Date: T0608700040 ENFORCEMENT 02/11/2011 13267 Requirement

Global Id:

T0608700040

Action Type:

Other

MAP FINDINGS

Database(s)

U001602032

EDR ID Number

EPA ID Number

OPAL CLIFFS AUTO CENTER (Continued)

Date: Action:

Site

01/01/1950

Leak Discovery

Global Id: Action Type: T0608700040 RESPONSE

Action Type: Date: 07/20/2004

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 07/20/2009

Date:

Monitoring Report - Quarterly

Global Id:

T0608700040

Action Type: Date:

RESPONSE 10/20/2002

Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 06/14/2002

Date: Action:

Corrective Action Plan / Remedial Action Plan

Global Id: Action Type: T0608700040 RESPONSE 10/20/2002

Date:

Other Report / Document

Global Id: Action Type: T0608700040 RESPONSE 05/20/2006

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 04/20/2007

Date: Action:

Monitoring Report - Quarterly

Global ld: Action Type: T0608700040 RESPONSE 01/25/2007

Date: Action:

Soil and Water Investigation Report

Global Id: Action Type: T0608700040 RESPONSE 10/20/2006

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 01/20/2007

Date: Action:

Monitoring Report - Quarterly

Global Id: Action Type: T0608700040 RESPONSE 07/20/2007

Date: Action:

Monitoring Report - Quarterly

Map ID Direction Distance

Site

Elevation

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

OPAL CLIFFS AUTO CENTER (Continued)

U001602032

Global Id:

T0608700040 RESPONSE

Action Type:

10/20/2008

Date: Action:

Monitoring Report - Quarterly

HIST UST:

Region:

STATE

Facility ID: Facility Type: 00000035606

Other Type:

Gas Station Not reported

Total Tanks:

0003

Contact Name:

RAY MCELMURRY

Telephone:

4084750284

Owner Name:

ROBERT N. RUDOLPH

Owner Address:

955 HIGH ST.

Owner City, St, Zip:

SANTA CRUZ, CA 95060

Tank Num:

001

Container Num:

Year Installed: Tank Capacity: Not reported 00000550

Tank Used for:

PRODUCT UNLEADED

Type of Fuel: Tank Construction:

Not reported

Leak Detection:

Stock Inventor

Tank Num:

002

Container Num:

Year Installed: Tank Capacity: Not reported 00000550

Tank Used for:

PRODUCT

Type of Fuel:

UNLEADED

Tank Construction: Not reported

Leak Detection:

Stock Inventor

Tank Num:

003

Container Num: Year Installed:

Not reported

Tank Capacity:

00002000

Tank Used for:

PRODUCT

Type of Fuel:

UNLEADED

Tank Construction:

Not reported

Leak Detection:

Stock Inventor

CUPA SANTA CRUZ:

Facility Id:

FA0002678

Region:

SANTA CRUZ

Cross Street: Description:

41ST AVE

HAZARDOUS WASTE GENERATOR (HMMP STD FORM)

Facility Id:

FA0002678

Region:

SANTA CRUZ

Cross Street:

41ST AVE

Description:

HMMP STANDARD FORM FILING FEE

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s)

EDR ID Number EPA ID Number

LUST S105034635 C15 **OPAL CLIFFS AUTO** N/A East **4001 PORTOLA DR**

< 1/8 0.105 mi.

Site 3 of 4 in cluster C 557 ft.

Relative:

LUST REG 3:

Higher

Region:

Regional Board:

SANTA CRUZ, CA 95065

Central Coast Region

Actual: 50 ft.

Facility County: Global ID:

Santa Cruz T0608700040

Status:

Post remedial action monitoring

Case Nümber:

Local Case Num:

Not reported

Case Type:

0

Substance: Quantity:

Gasoline Not reported

Abatement Method:

U

Leak Source: Leak Cause:

Tank UNK

How Stopped:

Not reported

How Discovered:

Tank Closure

Release Date: Discovered Date:

09/22/1992 8/26/92

Enter Date: Stop Date: Review Date: 08/25/1992 Not reported 07/31/2002

Enforce Date: Close Date:

Not reported

Enforcement Type:

Not reported

Responsible Party:

LET ROBERT RUDOLPH

RP Address: Contact:

955 HIGH ST Not reported

Cross Street:

Not reported

Local Agency: Lead Agency: 44000 Regional Board

Staff Initials:

TAS

Confirm Leak:

Not reported Not reported

Workplan: Prelim Assess: Pollution Char:

Not reported 04/22/1994 Not reported

Remedial Plan: Remedial Action: Monitorina:

Not reported 04/17/2001 UST

Pilot Program: Interim Action:

Not reported

Funding: MTBE Class:

Max MTBE Grnd Wtr: 500 Max MTBE Soil:

Not reported 02/01/2002

Max MTBE Data: MTBE Tested:

YE\$

Lat/Long:

36.96354243 / -121.965244

Soil Qualifier:

Not reported

Grnd Wtr Qualifier: Mtbe Concentratn:

Mtbe Fuel:

Not reported

Org Name: Basin Plan:

8

MAP FINDINGS Map ID Direction **EDR ID Number** Distance **EPA ID Number** Elevation Site Database(s)

OPAL CLIFFS AUTO (Continued)

S105034635

Beneficial: Not reported Priority: Not reported UST Cleanup Fund ID: Not reported Suspended: Not reported Operator: Not reported Water System: Not reported Well Name: Not reported

Distance From Well:

Not reported Assigned Name:

Summary:

VES PROPOSED FOR SOIL CLEANUP, GW NOT YET CHARACTERIZED, WAITING FOR

DESIGNS FOR OZONE SPARGING CAP. UST REMOVED 1992. DESIGNS FOR OZONE

SYSTEM DUE 12/1/02.

EDR US Hist Auto Stat 1015469713 C16 N/A

4001 PORTOLA DR East SANTA CRUZ, CA 95062 < 1/8

0.105 mi.

557 ft. Site 4 of 4 in cluster C

EDR Historical Auto Stations: Relative:

OPAL CLIFFS AUTO CENTER Name: Higher Year: 1999

Actual: Address: 4001 PORTOLA DR 50 ft.

OPAL CLIFFS AUTO CTR Name:

Year:

4001 PORTOLA DR Address:

Name: **OPAL CLIFFS AUTO CTR**

2003 Year:

Address: 4001 PORTOLA DR

OPAL CLIFFS AUTO CTR Name:

Year: 2004

Address: 4001 PORTOLA DR

OPAL CLIFFS AUTO CENTER Name:

Year: 2005

4001 PORTOLA DR Address:

OPAL CLIFFS AUTO CENTER INC Name:

2006 Year:

Address: 4001 PORTOLA DR

Name: **OPAL CLIFFS AUTO CENTER**

Year: 2007

4001 PORTOLA DR Address:

Name: **OPAL CLIFFS AUTO CENTER**

Year: 2008

Address: 4001 PORTOLA DR

OPAL CLIFFS AUTO CENTER Name:

Year:

4001 PORTOLA DR Address:

Name: **OPAL CLIFFS AUTO CTR**

Year: 2010 Map ID MAP FINDINGS Direction Distance Elevation Site Database(s)

1015469713

EDR ID Number

EPA ID Number

(Continued) Address:

4001 PORTOLA DR

EDR US Hist Auto Stat 1015443183 D17 3505 PORTOLA DR N/A

West < 1/8

SANTA CRUZ, CA 95062

0.123 mi.

650 ft. Site 1 of 2 in cluster D

Relative:

EDR Historical Auto Stations:

Lower

GLENN P DAVIS AUTO REPAIR Name:

Year: Address:

3505 PORTOLA DR

Actual: 43 ft.

GLENN P DAVIS AUTO REPAIR

Name: Year: 2003

3505 PORTOLA DR Address:

GLENN P DAVIS AUTO REPAIR

Name: 2004 Year:

Address: 3505 PORTOLA DR

GLENN P DAVIS AUTO REPAIR Name:

Year: 2005

3505 PORTOLA DR Address:

Name: GLENN P DAVIS AUTO REPAIR

2006 Year:

Address: 3505 PORTOLA DR

GLENN P DAVIS AUTO REPAIR Name:

Year:

3505 PORTOLA DR Address:

Name: GLENN P DAVIS AUTO REPAIR

Year: 2008

3505 PORTOLA DR Address:

GLENN P DAVIS AUTO REPAIR Name:

Year: 2009

Address: 3505 PORTOLA DR

Name: GLENN P DAVIS AUTO REPAIR

Year:

3505 PORTOLA DR Address:

GLENN P DAVIS AUTO REPAIR Name:

Year: 2012

Address: 3505 PORTOLA DR

MAP FINDINGS Map ID

Direction Distance

EDR ID Number **EPA ID Number** Elevation Site Database(s)

GLENN P DAVIS AUTO REPAIR D18

West 3505 PORTOLA DR #B < 1/8

SANTA CRUZ, CA 95062

0.123 mi. 650 ft. Site 2 of 2 in cluster D

Relative:

CUPA SANTA CRUZ:

Facility Id: Lower Region:

FA0003819 SANTA CRUZ

Actual:

Cross Street:

35TH AVE

43 ft.

Description:

HAZARDOUS WASTE GENERATOR (HMMP SHORT FORM)

Facility Id: Region:

FA0003819 SANTA CRUZ 35TH AVE

Cross Street: Description:

HMMP SHORT FORM BASE FEE

19

West 1/8-1/4 3503 PORTOLA DR SANTA CRUZ, CA 95062

0.151 mi. 798 ft.

Relative:

EDR Historical Auto Stations:

Lower

Name: **FULL METAL JACKET AUTOMOTIVE** 1999

Year: Actual:

39 ft.

3503 PORTOLA DR Address:

20 4180 COURT DR ESE

1/8-1/4 SANTA CRUZ, CA 95062 0.173 mi.

915 ft.

EDR Historical Auto Stations: Relative:

Higher

Name: Year:

ONLINE AUTOMOTIVE 2002

Actual:

Address:

4180 COURT DR

48 ft.

EMILE'S SPORTS CAR PERFORMANCE INC E21 3501 PORTOLA DR West

SANTA CRUZ, CA 95062

Site 1 of 2 in cluster E

1/8-1/4 0.179 mi.

947 ft.

Relative: Lower

CORTESE:

Region: Facility County Code: CORTESE

Actual:

Reg By:

LTNKA

35 ft.

Reg Id:

2323

LUST:

Region: Global Id: STATE T0608700051

Latitude: Longitude: 36.963903 -121.969967

TC3779737.2s Page 37

S110743278 N/A

CUPA Listings

EDR US Hist Auto Stat 1015443052

EDR US Hist Auto Stat 1015484463

HIST CORTESE

CUPA Listings

LUST

N/A

N/A

S101309577

N/A

MAP FINDINGS

Database(s)

EMILE'S SPORTS CAR PERFORMANCE INC (Continued)

S101309577

EDR ID Number

EPA ID Number

Case Type:

LUST Cleanup Site

Status:

Site

Completed - Case Closed 05/22/2000

Status Date:

Lead Agency: Case Worker:

CENTRAL COAST RWQCB (REGION 3) TAS

Local Agency:

SANTA CRUZ COUNTY LOP 2323

RB Case Number: LOC Case Number:

Not reported

File Location:

State Records Center

Potential Media Affect:

Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline

Site History:

Not reported

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

Contact:

Global Id:

T0608700051

Contact Type:

Regional Board Caseworker

Contact Name:

TOM SAYLES

Organization Name: Address:

CENTRAL COAST RWQCB (REGION 3)

895 AEROVISTA PL, SUITE 101

City:

SAN LUIS OBISPO

Email:

tsayles@waterboards.ca.gov

Phone Number:

Not reported

Global Id:

T0608700051

Contact Type:

Local Agency Caseworker UST CASE WORKER

Contact Name: Organization Name:

SANTA CRUZ COUNTY LOP

Address: City:

Not reported SANTA CRUZ

Email: Phone Number:

Not reported Not reported

Status History:

Global Id:

T0608700051

Status:

Completed - Case Closed

Status Date:

05/22/2000

Global Id:

T0608700051

Status:

Open - Case Begin Date

Status Date:

02/20/1991

Global Id:

T0608700051

Status:

Open - Site Assessment

Status Date:

02/24/1993

Regulatory Activities:

Global Id:

T0608700051

Action Type: Date: Action:

01/01/1950 Leak Reported

Other

Global Id:

T0608700051 **ENFORCEMENT**

Action Type: Date:

06/05/2000

Action:

Closure/No Further Action Letter

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S101309577

EMILE'S SPORTS CAR PERFORMANCE INC (Continued)

Global Id: Action Type: T0608700051 **ENFORCEMENT** 05/22/2000

Date: Action:

Closure/No Further Action Letter

Global Id: Action Type: Date:

T0608700051 Other 01/01/1950

Action:

Leak Stopped

Global Id: Action Type: Date:

T0608700051 Other 01/01/1950 Leak Discovery

LUST REG 3:

Action:

Region:

Central Coast Region Regional Board:

Facility County: Global ID:

Santa Cruz T0608700051

Status:

Preliminary site assessment underway

Case Number:

2323

Local Case Num:

Not reported

Case Type: Substance:

0 Gasoline

Quantity:

Not reported

Abatement Method: Leak Source: Leak Cause:

Piping UNK

How Stopped:

Not reported

How Discovered:

OM 02/24/1993

Release Date: Discovered Date: Enter Date:

7/8/91 03/31/1993 2/20/91

Stop Date: Review Date: Enforce Date: Close Date:

03/31/1993 Not reported Not reported

Enforcement Type: Responsible Party:

Not reported ROBERT DETTLE 1101 WATER ST Not reported

RP Address: Contact: Cross Street:

35TH AVE 44000

Local Agency: Lead Agency:

Regional Board

Staff Initials: Confirm Leak:

TAS Not reported

Workplan: Prelim Assess: Not reported 2/24/93

Pollution Char: Remedial Plan: Remedial Action:

Not reported Not reported

Monitoring: Pilot Program: Interim Action: 0

11 UST

Funding:

Not reported

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s)

EDR ID Number **EPA ID Number**

EMILE'S SPORTS CAR PERFORMANCE INC (Continued)

S101309577

MTBE Class:

Max MTBE Grnd Wtr: Not reported Not reported Max MTBE Soil:

Max MTBE Data: 11 MTBE Tested: YES

Lat/Long: 36.96380311 / -121.9703154

Soil Qualifier: Not reported Grnd Wtr Qualifier: Not reported

Mtbe Concentratn: Mtbe Fuel:

Org Name: Not reported Basin Plan: 4.11

Beneficial: Not reported Priority:

UST Cleanup Fund ID: Not reported

Not reported Suspended: Operator: Not reported Water System: Not reported Well Name: Not reported

Distance From Well:

Assigned Name: Not reported

Summary: was local lead for many years. After completion of soil and ground

water investigation, staff closed the case.

CUPA SANTA CRUZ:

Facility Id: Region:

FA0002675 SANTA CRUZ 38TH ST

Cross Street: Description:

HAZARDOUS WASTE GENERATOR (HMMP SHORT FORM)

Facility Id:

FA0002675 Region: SANTA CRUZ

Cross Street: 38TH ST

HMMP SHORT FORM BASE FEE Description:

E22 West

3501 PORTOLA DR SANTA CRUZ, CA 95062

1/8-1/4 0.179 mi.

947 ft.

Site 2 of 2 in cluster E

Relative: Lower

EDR Historical Auto Stations:

Year: 2001

Actual: Address: 3501 PORTOLA DR

35 ft.

EMILES SPORTS CAR PERFORMANCE Name:

Year:

2004

EMILES SPORTS CAR PERFORMANCE

Address:

Name:

3501 PORTOLA DR

Name:

EMILES SPORTS CAR PERFORMANCE

Year:

2005

Address:

3501 PORTOLA DR

Name:

EMILES SPORTS CAR PERFORMANCE

Year:

2006

Address:

3501 PORTOLA DR

EDR US Hist Auto Stat 1015442827

N/A

Map ID MAP FINDINGS Direction

Distance

Elevation Site Database(s)

EDR ID Number **EPA ID Number**

(Continued) 1015442827

Name:

EMILES SPORTS CAR PERFORMANCE

Year:

2007

Address:

3501 PORTOLA DR

Name:

SPORTS CAR PERFORMANCE JAGUAR & LAND

Year:

2008

Address:

3501 PORTOLA DR

Name:

SPORTS CAR PERFORMANCE JAGUAR & LAND

Year:

Address:

3501 PORTOLA DR

Name:

EMILES SPORTS CAR PERFORMANCE

Year:

2010

Address:

3501 PORTOLA DR

PLEASURE POINT ROADHOUSE PROPERTY SLIC \$110041770 23 South 3905 E CLIFF DR N/A

1/4-1/2

SANTA CRUZ, CA 95062

0.279 mi. 1473 ft.

Relative: Lower

SLIC:

Region:

STATE Completed - Case Closed

Actual: 40 ft.

Facility Status: Status Date: Global Id:

12/14/2010 T10000001576

Lead Agency:

SANTA CRUZ COUNTY LOP

Lead Agency Case Number: Latitude:

Not reported 36.9594084132419 -121.966470479965 Cleanup Program Site

Longitude: Case Type: Case Worker:

RC

SANTA CRUZ COUNTY LOP

Local Agency: RB Case Number: File Location:

Not reported Not reported

Potential Media Affected: Potential Contaminants of Concern:

Not reported Not reported

Site History:

Local Site Address Recorded As: 2-3905 E Cliff Dr, Santa Cruz, CA

95062

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

S108936076 **OPAL CLIFFS SCHOOL SITE** SCH 24 **ENVIROSTOR** NE 4400 JADE STREET N/A

1/2-1 0.613 mi. CAPITOLA, CA 95010

3236 ft.

SCH:

Relative: Higher

Facility ID:

60000752

Actual:

Site Type:

School Investigation

62 ft.

Site Type Detail: Site Mgmt. Req.: School NONE SPECIFIED

Acres:

1.4

MAP FINDINGS Map ID

Direction Distance Elevation

Site

Database(s)

EDR ID Number **EPA ID Number**

S108936076

OPAL CLIFFS SCHOOL SITE (Continued)

National Priorities List: Cleanup Oversight Agencies: SMBRP Lead Agency: **SMBRP**

Lead Agency Description:

DTSC - Site Cleanup Program

Project Manager: Supervisor:

Kamili Siglowide Mark Malinowski

Division Branch:

Northern California Schools & Santa Susana

Site Code: 204210 Assembly: 29 Senate:

Special Program Status: Not reported No Further Action Status: Status Date: 06/04/2009 NO Restricted Use:

School District Funding: Latitude: 36.96938 Longitude: -121.9596 APN: 034-551-02

AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA Past Use:

Potential COC: Chlordane, Chlordane, DDD, DDE, DDT, Endrin, Lead, Toxaphene,

Dieldrin

30004-NO, 30207-NO, 30023-NO, 30013-NO, 30006-NO, 30007-NO, Confirmed COC:

30008-NO, 30010-NO, No Contaminants found

Potential Description: SOIL

034-551-02 Alias Name: Alias Type: APN Alias Name: 204210

Alias Type: Project Code (Site Code)

Alias Name: 60000752

Alias Type: **Envirostor ID Number**

Completed Info:

Comments:

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

Completed Date:

Cost Recovery Closeout Memo 06/25/2009

the PEA.

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

Completed Document Type: **Environmental Oversight Agreement**

Completed Date: 09/11/2008

Comments: Agreement signed, executed with a copy placed in the file an a copy

sent to the Soquel Union Elementary School District.

CRU memo sent to accounting unit to summarize costs associated with

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Phase 1 Completed Document Type: Completed Date: 12/04/2007

DTSC recommended a preliminary environmental assessment to Comments:

investigate site soils for metals and pesticides.

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

Completed Document Type: Preliminary Assessment Work Plan

Completed Date: 01/21/2009

Comments: DTSC approved the PEA workplan to investigate the site for OCPs and

MAP FINDINGS Map ID Direction

Distance

Elevation Site

EDR ID Number Database(s) **EPA ID Number**

OPAL CLIFFS SCHOOL SITE (Continued)

S108936076

arsenic.

Completed Area Name:

Completed Sub Area Name:

Not reported

Completed Document Type:

Preliminary Endangerment Assessment Report 06/04/2009

Completed Date: Comments:

Not reported

Completed Area Name:

PROJECT WIDE Not reported

PROJECT WIDE

Completed Sub Area Name: Completed Document Type:

Preliminary Endangerment Assessment Report

Completed Date:

02/10/2012

Comments:

DTSC approved the PEA Addendum with a no further action determination.

Not reported

Future Area Name:

Not reported Not reported Future Sub Area Name:

Future Document Type: Future Due Date: Schedule Area Name:

Not reported Not reported Not reported Not reported

Schedule Sub Area Name: Schedule Document Type:

Not reported Not reported Not reported

Schedule Due Date: Schedule Revised Date:

ENVIROSTOR: Site Type:

School Investigation

Site Type Detailed:

Acres:

School 1.4

NO

NPL:

Regulatory Agencies: Lead Agency:

SMBRP SMBRP

Program Manager: Supervisor:

Kamili Siglowide Mark Malinowski

Division Branch:

Northern California Schools & Santa Susana 60000752

Facility ID: Site Code:

Status:

204210 29

Assembly: Senate:

17

Special Program:

Not reported No Further Action

Status Date: Restricted Use: 06/04/2009 NO

Site Mgmt. Req.:

NONE SPECIFIED School District 36.96938

Funding: Latitude: Longitude:

-121.9596 034-551-02

Past Use:

APN:

AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA

Potential COC:

Chlordane, Chlordane, DDD, DDE, DDT, Endrin, Lead, Toxaphene,

Dieldrin

Confirmed COC:

Chlordane, Chlordane, DDD, DDE, DDT, Endrin, Lead, Toxaphene,

Dieldrin, 30004-NO, 30207-NO, 30023-NO, 30013-NO, 30006-NO, 30007-NO,

30008-NO, 30010-NO, No Contaminants found

Potential Description:

SOIL

Alias Name:

034-551-02

Alias Type:

APN

Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S108936076

OPAL CLIFFS SCHOOL SITE (Continued)

Alias Name:

Alias Type:

Project Code (Site Code)

Alias Name:

60000752

Alias Type:

Envirostor ID Number

Completed Info:

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

Completed Document Type:

Cost Recovery Closeout Memo

Completed Date:

06/25/2009

Comments:

CRU memo sent to accounting unit to summarize costs associated with

the PEA.

Completed Area Name:

PROJECT WIDE Not reported

Completed Sub Area Name: Completed Document Type:

Environmental Oversight Agreement

Completed Date:

09/11/2008

Comments:

Agreement signed, executed with a copy placed in the file an a copy

sent to the Soquel Union Elementary School District.

Completed Area Name:

PROJECT WIDE Not reported

Completed Sub Area Name: Completed Document Type:

Phase 1 12/04/2007

Completed Date: Comments:

DTSC recommended a preliminary environmental assessment to

investigate site soils for metals and pesticides.

Completed Area Name:

Completed Sub Area Name: Not reported

Completed Document Type:

Preliminary Assessment Work Plan

Completed Date:

01/21/2009

PROJECT WIDE

Comments:

DTSC approved the PEA workplan to investigate the site for OCPs and

arsenic.

Completed Area Name:

PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type:

Preliminary Endangerment Assessment Report

Completed Date:

06/04/2009 Not reported

Comments:

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

Completed Document Type:

Preliminary Endangerment Assessment Report

Completed Date:

02/10/2012

Comments:

DTSC approved the PEA Addendum with a no further action determination.

Not reported

Future Area Name:

Not reported Not reported

Future Sub Area Name: Future Document Type: Future Due Date:

Not reported Not reported

Schedule Area Name: Schedule Sub Area Name: Not reported Not reported

Schedule Document Type:

Not reported Not reported

Schedule Due Date: Schedule Revised Date:

Not reported

Count: 5 records.

City	EDR ID	Site Name	Site Address	Zip Database(s)
CAPITOLA	S110743255	110743255 PG&E - OPAL CLIFFS SUBSTATION	41ST AVE	95010 CUPA Listings
CAPITOLA	U003786122	J003786122 NEW BRIGHTON PUMPING STATION	NEW BRIGHTON STATE BEACH	95010 UST
RIO DEL MAR	S103291443	103291443 SCCSD RIO PUMPING STATION	CLIFF DR	95062 HIST CORTESE, LUST
SANTA CRUZ	1010313563	010313563 CALIFORNIA DEPARTMENT OF TRANSPORT	HWY 1 AND 17 INTERCHANGE	95062 RCRA-SQG
SANTA CRUZ	\$113171128	113171128 EAST CLIFF DRIVE CLEANERS	2 1503 E CLIFF DR	95062 HAZNET

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013

Date Made Active in Reports: 07/10/2013

Number of Days to Update: 62

Source: EPA Telephone: N/A

Last EDR Contact: 10/11/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

EPA Region 6

Telephone 617-918-1143

Telephone: 214-655-6659

EPA Region 3

EPA Region 7

Telephone 215-814-5418

Telephone: 913-551-7247

EPA Region 4

EPA Region 8

Telephone 404-562-8033

Telephone: 303-312-6774

EPA Region 5

EPA Region 9

Telephone 312-886-6686

Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013

Date Made Active in Reports: 07/10/2013

Number of Days to Update: 62

Source: EPA Telephone: N/A

Last EDR Contact: 10/11/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013 Date Data Arrived at EDR: 05/09/2013

Date Made Active in Reports: 07/10/2013

Number of Days to Update: 62

Source: EPA Telephone: N/A

Last EDR Contact: 10/11/2013

Next Scheduled EDR Contact: 01/20/2014 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: 04/26/2013 Date Data Arrived at EDR: 05/29/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 72

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 12/09/2013
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: 07/31/2012 Date Data Arrived at EDR: 10/09/2012 Date Made Active in Reports: 12/20/2012

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 10/11/2013

Next Scheduled EDR Contact: 01/20/2014 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: 04/26/2013 Date Data Arrived at EDR: 05/29/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 72

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 36

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 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: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 36

Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013 Next Scheduled EDR Contact: 01/13/2014 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: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 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: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013 Number of Days to Update: 36 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013 Next Scheduled EDR Contact: 01/13/2014

Data Release Frequency: Varies

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: 06/17/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 104

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013 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: 06/17/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 104

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013

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: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 70

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 08/15/2013

Next Scheduled EDR Contact: 09/02/2013

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: 12/31/2012 Date Data Arrived at EDR: 01/17/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 29

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 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: 09/05/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 35

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 09/05/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/10/2013 Number of Days to Update: 35

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 11/06/2013 Next Scheduled EDR Contact: 02/17/2014 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 i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites:

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 08/19/2013

Next Scheduled EDR Contact: 12/02/2013 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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

Telephone: 213-576-6710 Last EDR Contact: 09/06/2011 Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

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

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-542-4786

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

LUST REG 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: 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: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001 Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

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 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

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

Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011

Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

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

Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

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

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

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

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: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 30

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 12/30/2013 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.

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.

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 R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 66

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 70

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

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

Date of Government Version: 07/29/2013 Date Data Arrived at EDR: 07/30/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 94

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

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: 03/01/2013 Date Data Arrived at EDR: 03/01/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 08/27/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

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

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

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: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 11/01/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: SWRCB Telephone: 916-341-5851

Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 12/30/2013 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 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 21

Source: California Environmental Protection Agency

Telephone: 916-327-5092 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

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: 02/05/2013 Date Data Arrived at EDR: 02/06/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 65

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 45

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 07/29/2013 Date Data Arrived at EDR: 08/01/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 92

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Quarterly

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: 12/31/2012 Date Data Arrived at EDR: 02/28/2013 Date Made Active in Reports: 04/12/2013

Number of Days to Update: 43

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 70

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Semi-Annually

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: 09/28/2012 Date Data Arrived at EDR: 11/07/2012 Date Made Active in Reports: 04/12/2013 Number of Days to Update: 156

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/01/2014 Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

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: 10/17/2013

Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisiting

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

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

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

Date of Government Version: 09/05/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 35

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012 Date Data Arrived at EDR: 10/02/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 14

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014

Data Release Frequency: Varies

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: 06/24/2013 Date Data Arrived at EDR: 06/25/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

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

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

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: No Update Planned

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: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/19/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 28

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 04/26/2013 Date Data Arrived at EDR: 04/26/2013 Date Made Active in Reports: 05/16/2013

Number of Days to Update: 20

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 12/02/2013 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: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014

Data Release Frequency: Varies

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: 08/06/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 22

Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 09/04/2013

Next Scheduled EDR Contact: 12/16/2013 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 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006

Number of Days to Update: 21

Source: Department of Toxic Substance Control

Telephone: 916-323-3400 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 09/05/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 35

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

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: 06/30/2013 Date Data Arrived at EDR: 09/03/2013 Date Made Active in Reports: 10/10/2013 Number of Days to Update: 37

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 09/03/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

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.

Telephone: 202-307-1000

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009 Number of Days to Update: 131

Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Source: Drug Enforcement Administration

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 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995 Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 8

Source: Department of Public Health

Telephone: 707-463-4466 Last EDR Contact: 09/03/2013

Next Scheduled EDR Contact: 12/16/2013 Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Date Data Arrived at EDR: 07/07/2005 Date Made Active in Reports: 08/11/2005 Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: N/A

Last EDR Contact: 06/03/2005 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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.

Date of Government Version: 02/06/2013 Date Data Arrived at EDR: 04/25/2013 Date Made Active in Reports: 05/10/2013

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 11/01/2013

Next Scheduled EDR Contact: 02/11/2014 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: 06/14/2013 Date Data Arrived at EDR: 06/17/2013 Date Made Active in Reports: 08/21/2013

Number of Days to Update: 65

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 12/23/2013

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: 09/11/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 33

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 09/11/2013

Next Scheduled EDR Contact: 12/23/2013 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: 12/31/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 55

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 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: 03/12/2013 Date Data Arrived at EDR: 05/01/2013 Date Made Active in Reports: 06/25/2013

Number of Days to Update: 55

Source: Office of Emergency Services

Telephone: 916-845-8400 Last EDR Contact: 10/30/2013

Next Scheduled EDR Contact: 02/11/2014 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: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: State Water Quality Control Board

Telephone: 866-480-1028 Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

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: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 10/17/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

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: 07/11/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 10/02/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 11/06/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 03/13/2013

Number of Days to Update: 15

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013

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: 06/30/2013 Date Data Arrived at EDR: 08/07/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 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: 04/26/2013 Date Data Arrived at EDR: 06/11/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 143

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/13/2013

Next Scheduled EDR Contact: 12/23/2013 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: 05/28/2013

Next Scheduled EDR Contact: 09/09/2013

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: 08/01/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/03/2013

Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 09/05/2013

Next Scheduled EDR Contact: 12/16/2013 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: 08/30/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006

Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/08/2014 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: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 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: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 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.

Date of Government Version: 12/31/2009
Date Date Arrived at EDR: 12/10/2010

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: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 10/09/2014

Next Scheduled EDR Contact: 01/27/2014

Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013 Date Data Arrived at EDR: 07/17/2013

Date Made Active in Reports: 11/01/2013

Number of Days to Update: 107

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 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 guarterly basis.

Date of Government Version: 07/22/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 91

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013 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: 09/30/2013 Date Data Arrived at EDR: 10/09/2013 Date Made Active in Reports: 11/01/2013

Number of Days to Update: 23

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/20/2014 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: 03/08/2013 Date Data Arrived at EDR: 03/21/2013 Date Made Active in Reports: 07/10/2013

Number of Days to Update: 111

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 09/11/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g. the fire department) should an accident occur.

Date of Government Version: 05/08/2012 Date Data Arrived at EDR: 05/25/2012 Date Made Active in Reports: 07/10/2012

Number of Days to Update: 46

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013

Number of Days to Update: 52

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/26/2013

Next Scheduled EDR Contact: 12/09/2013 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 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994

Number of Days to Update: 6

Source: Department of Health Services Telephone: 916-255-2118

Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/08/2013 Number of Days to Update: 50 Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 08/19/2013

Next Scheduled EDR Contact: 12/02/2013 Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 08/21/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 30

Source: Deaprtment of Conservation

Telephone: 916-445-2408 Last EDR Contact: 09/17/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste

Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 07/05/2013 Date Data Arrived at EDR: 07/05/2013 Date Made Active in Reports: 08/26/2013

Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 10/01/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009 Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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 Date Data Arrived at EDR: 11/01/1993 Date Made Active in Reports: 11/19/1993

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 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: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 35

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/24/2012 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 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014

Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of

Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/09/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 56

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

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.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 07/16/2013 Date Made Active in Reports: 08/26/2013

Number of Days to Update: 41

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 10/15/2013

Next Scheduled EDR Contact: 01/27/2014 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: 12/31/2010 Date Data Arrived at EDR: 06/25/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 58

Source: California Air Resources Board

Telephone: 916-322-2990 Last EDR Contact: 09/27/2013

Next Scheduled EDR Contact: 01/08/2014 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 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 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 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 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: 03/04/2013 Date Data Arrived at EDR: 03/15/2013 Date Made Active in Reports: 05/10/2013

Number of Days to Update: 56

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 09/27/2013

Next Scheduled EDR Contact: 12/02/2013 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 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/01/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Varies

PROC: Certified Processors Database A listing of certified processors.

> Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/19/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 28

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/29/2013 Date Data Arrived at EDR: 09/13/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 31

Source: Department of Public Health Telephone: 916-558-1784 Last EDR Contact: 09/11/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 10/15/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/13/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/15/2013 Date Data Arrived at EDR: 07/16/2013 Date Made Active in Reports: 08/12/2013

Number of Days to Update: 27

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 10/15/2013

Next Scheduled EDR Contact: 01/27/2014 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: 08/28/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 08/27/2013

Next Scheduled EDR Contact: 12/09/2013 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: 08/12/2013 Date Data Arrived at EDR: 08/20/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 49

Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 08/15/2013

Next Scheduled EDR Contact: 12/02/2013 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 08/08/2013 Date Made Active in Reports: 08/27/2013

Number of Days to Update: 19

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 10/25/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013 Date Data Arrived at EDR: 02/14/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 09/24/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012 Number of Days to Update: 7 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 08/16/2013

Next Scheduled EDR Contact: 11/25/2013

Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014

Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013 Date Data Arrived at EDR: 07/03/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 72

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 10/04/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Quarterly

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: 01/23/2013 Date Data Arrived at EDR: 01/30/2013 Date Made Active in Reports: 05/10/2013

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 01/23/2013 Date Data Arrived at EDR: 01/30/2013 Date Made Active in Reports: 05/10/2013 Number of Days to Update: 100 Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Annually

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: 06/30/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 09/13/2013

Number of Days to Update: 31

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Quarterly

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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A Telephone: N/A Last EDR Contact: N/A

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: 07/25/2013 Date Data Arrived at EDR: 07/26/2013 Date Made Active in Reports: 08/09/2013 Number of Days to Update: 14

Source: Alameda County Environmental Health Services Telephone: 510-567-6700

Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2013 Date Data Arrived at EDR: 07/26/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 25

Source: Alameda County Environmental Health Services Telephone: 510-567-6700

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Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List Cupa Facility List

> Date of Government Version: 06/20/2013 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 08/21/2013

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 09/10/2013

Number of Days to Update: 61

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing Cupa facility list.

> Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/02/2013 Date Made Active in Reports: 08/22/2013 Number of Days to Update: 20

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 07/24/2013 Date Made Active in Reports: 08/09/2013

Number of Days to Update: 16

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List Cupa facility list.

Date of Government Version: 06/20/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013

Number of Days to Update: 39

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 10/04/2013

Next Scheduled EDR Contact: 11/25/2013 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: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 46

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List Cupa Facility list

> Date of Government Version: 01/09/2013 Date Data Arrived at EDR: 01/10/2013 Date Made Active in Reports: 02/25/2013

Number of Days to Update: 46

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014

Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/20/2013 Date Data Arrived at EDR: 08/23/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 46

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 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: 06/30/2013 Date Data Arrived at EDR: 07/16/2013 Date Made Active in Reports: 07/24/2013

Number of Days to Update: 8

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/09/2013 Date Data Arrived at EDR: 08/09/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 13

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 08/09/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List Cupa facility list.

> Date of Government Version: 07/26/2013 Date Data Arrived at EDR: 08/09/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 13

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 09/10/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Varies

KERN COUNTY:

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

> Date of Government Version: 08/31/2010 Date Data Arrived at EDR: 09/01/2010 Date Made Active in Reports: 09/30/2010 Number of Days to Update: 29

Source: Kern County Environment Health Services Department Telephone: 661-862-8700

Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 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: 08/22/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/08/2013 Number of Days to Update: 42

Source: Kings County Department of Public Health Telephone: 559-584-1411 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2013 Date Data Arrived at EDR: 01/25/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 33

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 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: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/28/2013 Date Data Arrived at EDR: 06/17/2013 Date Made Active in Reports: 08/21/2013

Number of Days to Update: 65

Source: Department of Public Works Telephone: 626-458-3517

Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014 Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/22/2013 Date Data Arrived at EDR: 07/22/2013 Date Made Active in Reports: 08/26/2013

Number of Days to Update: 35

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 10/22/2013

Next Scheduled EDR Contact: 02/03/2014 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: 07/17/2013

Next Scheduled EDR Contact: 11/04/2013 Data Release Frequency: Varies

Site Mitigation List

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

Date of Government Version: 01/30/2013 Date Data Arrived at EDR: 02/21/2013 Date Made Active in Reports: 03/25/2013

Number of Days to Update: 32

Source: Community Health Services Telephone: 323-890-7806

Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 07/31/2013 Date Data Arrived at EDR: 08/01/2013 Date Made Active in Reports: 08/27/2013

Number of Days to Update: 26

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

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

Date of Government Version: 03/28/2003 Date Data Arrived at EDR: 10/23/2003 Date Made Active in Reports: 11/26/2003

Number of Days to Update: 34

Source: City of Long Beach Fire Department Telephone: 562-570-2563

Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013 Date Data Arrived at EDR: 07/18/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 33

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 10/09/2013

Next Scheduled EDR Contact: 01/27/2014

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.

Date of Government Version: 09/20/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/18/2013

Number of Days to Update: 24

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 11/26/2012 Date Data Arrived at EDR: 11/28/2012 Date Made Active in Reports: 01/21/2013

Number of Days to Update: 54

Source: Public Works Department Waste Management

Telephone: 415-499-6647

Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 08/23/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 42

Source: Merced County Environmental Health

Telephone: 209-381-1094 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List CUPA Facility List

> Date of Government Version: 09/04/2013 Date Data Arrived at EDR: 09/05/2013 Date Made Active in Reports: 10/14/2013 Number of Days to Update: 39

Source: Mono County Health Department Telephone: 760-932-5580 Last EDR Contact: 09/03/2013 Next Scheduled EDR Contact: 12/16/2013

Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/11/2013 Date Data Arrived at EDR: 09/12/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 32

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013

Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination

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

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: 09/03/2013

Next Scheduled EDR Contact: 12/16/2013

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: 09/03/2013

Next Scheduled EDR Contact: 12/16/2013 Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List CUPA facility list.

Date of Government Version: 05/29/2013 Date Data Arrived at EDR: 05/30/2013 Date Made Active in Reports: 07/15/2013

Number of Days to Update: 46

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 56

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 56

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/13/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 56

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/22/2013 Date Data Arrived at EDR: 08/22/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 49

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 08/20/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/18/2013 Date Data Arrived at EDR: 07/18/2013 Date Made Active in Reports: 07/24/2013 Number of Days to Update: 6

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/18/2013 Date Data Arrived at EDR: 07/18/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 33

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 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: 05/03/2013 Date Data Arrived at EDR: 07/08/2013 Date Made Active in Reports: 07/24/2013

Number of Days to Update: 16

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 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: 05/03/2013 Date Data Arrived at EDR: 07/08/2013 Date Made Active in Reports: 08/23/2013

Number of Days to Update: 46

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 10/07/2013

Next Scheduled EDR Contact: 01/20/2014 Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/03/2013 Date Data Arrived at EDR: 09/03/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 37

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 08/08/2013

Next Scheduled EDR Contact: 11/25/2013
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: 09/23/2013

Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012 Date Data Arrived at EDR: 11/06/2012 Date Made Active in Reports: 11/30/2012

Number of Days to Update: 24

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

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

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 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: 08/07/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

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

Date of Government Version: 09/25/2013 Date Data Arrived at EDR: 09/27/2013 Date Made Active in Reports: 10/18/2013

Nace Made Active in Reports, 10/10/20

Number of Days to Update: 21

Source: Environmental Health Department

Telephone: N/A

Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/26/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013 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: 07/02/2013 Date Data Arrived at EDR: 07/05/2013 Date Made Active in Reports: 08/23/2013

Number of Days to Update: 49

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/13/2013

Next Scheduled EDR Contact: 09/30/2013 Data Release Frequency: Annually

Fuel Leak List

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

Date of Government Version: 09/16/2013 Date Data Arrived at EDR: 09/17/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 29

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 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: 09/23/2013

Next Scheduled EDR Contact: 12/09/2013

Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

Date of Government Version: 09/03/2013 Date Data Arrived at EDR: 09/04/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 36

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 09/03/2013

Next Scheduled EDR Contact: 12/16/2013

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: 09/03/2013 Date Data Arrived at EDR: 09/06/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 38

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 09/03/2013

Next Scheduled EDR Contact: 12/16/2013 Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/14/2013 Date Data Arrived at EDR: 08/16/2013 Date Made Active in Reports: 10/08/2013

Number of Days to Update: 53

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 08/08/2013

Next Scheduled EDR Contact: 11/25/2013 Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/22/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Santa Cruz County Environmental Health

Telephone: 831-464-2761 Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013

Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 09/09/2013 Date Data Arrived at EDR: 09/10/2013 Date Made Active in Reports: 10/14/2013

Number of Days to Update: 34

Source: Shasta County Department of Resource Management

Telephone: 530-225-5789

Last EDR Contact: 08/22/2013

Next Scheduled EDR Contact: 12/09/2013

Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

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

Date of Government Version: 09/18/2013 Date Data Arrived at EDR: 09/20/2013 Date Made Active in Reports: 10/17/2013

Number of Days to Update: 27

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/18/2013 Date Data Arrived at EDR: 09/24/2013 Date Made Active in Reports: 10/18/2013

Number of Days to Update: 24

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List Cupa Facility list

Date of Government Version: 07/05/2013
Date Data Arrived at EDR: 07/05/2013
Date Made Active in Reports: 08/21/2013

Number of Days to Update: 47

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 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: 07/02/2013 Date Data Arrived at EDR: 07/05/2013 Date Made Active in Reports: 08/12/2013

Number of Days to Update: 38

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 09/30/2013

Next Scheduled EDR Contact: 01/13/2014 Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

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: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 09/10/2013

Next Scheduled EDR Contact: 12/23/2013 Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List Cupa facility list

> Date of Government Version: 01/14/2013 Date Data Arrived at EDR: 01/16/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 42

Source: Divison of Environmental Health

Telephone: 209-533-5633 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014

Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/19/2013 Date Data Arrived at EDR: 08/27/2013 Date Made Active in Reports: 10/10/2013

Number of Days to Update: 44

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 08/19/2013

Next Scheduled EDR Contact: 12/02/2013
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 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012 Number of Days to Update: 49

Telepho Last El

Source: Environmental Health Division Telephone: 805-654-2813

Last EDR Contact: 10/07/2013 Next Scheduled EDR Contact: 01/20/2014

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 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 08/19/2013

Next Scheduled EDR Contact: 12/02/2013 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: 05/28/2013 Date Data Arrived at EDR: 06/24/2013 Date Made Active in Reports: 08/12/2013

Number of Days to Update: 49

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 10/28/2013

Next Scheduled EDR Contact: 02/11/2014 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: 08/29/2013 Date Data Arrived at EDR: 09/18/2013 Date Made Active in Reports: 10/16/2013

Number of Days to Update: 28

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Quarterly

YOLO COUNTY:

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

Date of Government Version: 06/24/2013 Date Data Arrived at EDR: 06/26/2013 Date Made Active in Reports: 08/20/2013

Number of Days to Update: 55

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 09/23/2013

Next Scheduled EDR Contact: 01/08/2014 Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 08/01/2013 Date Data Arrived at EDR: 08/05/2013 Date Made Active in Reports: 08/22/2013

Number of Days to Update: 17

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 11/04/2013

Next Scheduled EDR Contact: 02/17/2014

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: 08/19/2013

Next Scheduled EDR Contact: 12/02/2013 Data Release Frequency: Annually

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: 10/18/2013

Next Scheduled EDR Contact: 01/27/2014 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: 08/01/2013 Date Data Arrived at EDR: 08/07/2013 Date Made Active in Reports: 09/10/2013

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 11/07/2013

Next Scheduled EDR Contact: 02/17/2014 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 07/24/2013 Date Made Active in Reports: 08/19/2013

Number of Days to Update: 26

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 10/21/2013

Next Scheduled EDR Contact: 02/03/2014 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 06/21/2013 Date Made Active in Reports: 08/05/2013

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 08/23/2013

Next Scheduled EDR Contact: 12/09/2013 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 08/09/2013 Date Made Active in Reports: 09/27/2013

Number of Days to Update: 49

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/16/2013

Next Scheduled EDR Contact: 12/30/2013 Data Release Frequency: Annually

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

Electric Power Transmission Line Data

Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

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

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3800 PORTOLA DRIVE 3800 PORTOLA DRIVE SANTA CRUZ, CA 95062

TARGET PROPERTY COORDINATES

Latitude (North):

36.9634 - 36° 57' 48.24"

Longitude (West):

121.9673 - 121° 58' 2.28"

Universal Tranverse Mercator: Zone 10

Zone 10

UTM X (Meters):

591933.2

UTM Y (Meters):

4091107.2

Elevation:

47 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:

36121-H8 SOQUEL, CA

Most Recent Revision:

1994

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.

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).

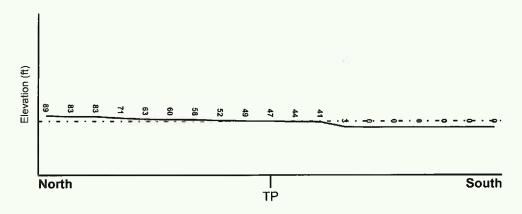
TOPOGRAPHIC INFORMATION

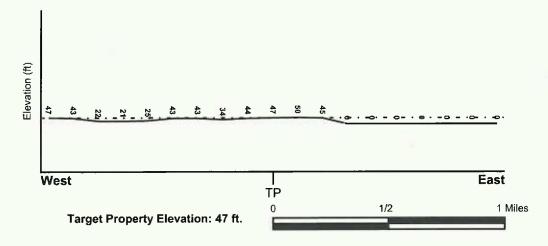
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

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.

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

FEMA Flood

Target Property County

Electronic Data

SANTA CRUZ, CA

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

06087C - FEMA DFIRM Flood data

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

SOQUEL

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.

> LOCATION FROM TP

MAP ID

Not Reported

GENERAL DIRECTION **GROUNDWATER FLOW**

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

GEOLOGIC AGE IDENTIFICATION

Era:

Cenozoic

Category: Stratified Sequence

System: Series:

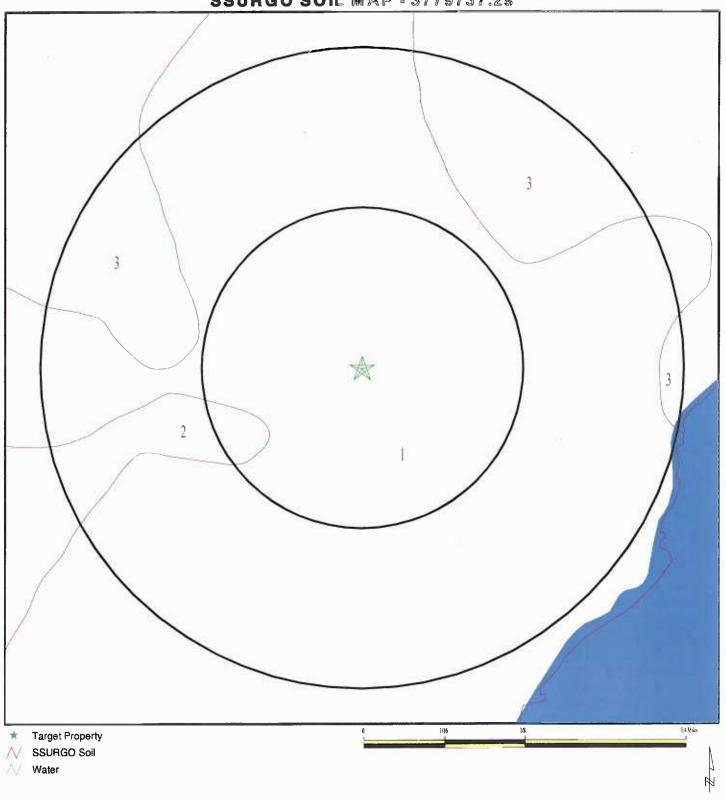
Tertiary Pliocene

Code:

Tp (decoded above as Era, System & Series)

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

SSURGO SOIL MAP - 3779737.2s



SITE NAME: 3800 Portola Drive ADDRESS: 3800 Portola Drive Santa Cruz CA 95062 LAT/LONG: 36.9634 / 121.9673

CLIENT: Remediation Risk Management CONTACT: Cate Townsend INQUIRY #: 3779737.2s DATE: November 07, 2013 2:26 pm

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DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name:

WATSONVILLE

Soil Surface Texture:

loam

Hydrologic Group:

Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class:

Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 114 inches

	Soil Layer Information						
	Bou	ındary	Classifi		fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	18 inches	38 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 5.6
3	38 inches	62 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8,4 Min: 5.6

Soil Map ID: 2

Soil Component Name:

WATSONVILLE

Soil Surface Texture:

loam

Hydrologic Group:

Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class:

Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 114 inches

Soil Layer Information							
Boundary		ındary		Classification		Saturated hydraulic	
Layer	Upper Lower Soil Text		Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	18 inches	38 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 5.6
3	38 inches	62 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 5.6

Soil Map ID: 3

Soil Component Name:

ELKHORN

Soil Surface Texture:

sandy loam

Hydrologic Group:

Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class:

Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min:

> 0 inches

Depth to Watertable Min:

> 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	Soil Reaction (pH)
Layer	Upper	Upper Lower Soil Texture Class		AASHTO Group	AASHTO Group Unified Soil		
1	0 inches	20 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.6
2	20 inches	61 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.8 Min: 5.6

LOCATION

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

DATABASE

SEARCH DISTANCE (miles)

Federal USGS

1.000

Federal FRDS PWS

Nearest PWS within 1 mile

State Database

1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	FROM TP
C10 D12	USGS40000179947 USGS4000180030	1/4 - 1/2 Mile WSW 1/4 - 1/2 Mile NNW
E16	USGS40000180030	1/4 - 1/2 Mile NNE

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	FROM TP
E17	USGS40000180041	1/4 - 1/2 Mile NNE
J30	USGS40000180096	1/2 - 1 Mile North
K31	USGS40000180075	1/2 - 1 Mile NE
J33	USGS40000180101	1/2 - 1 Mile North
K34	USGS40000180074	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

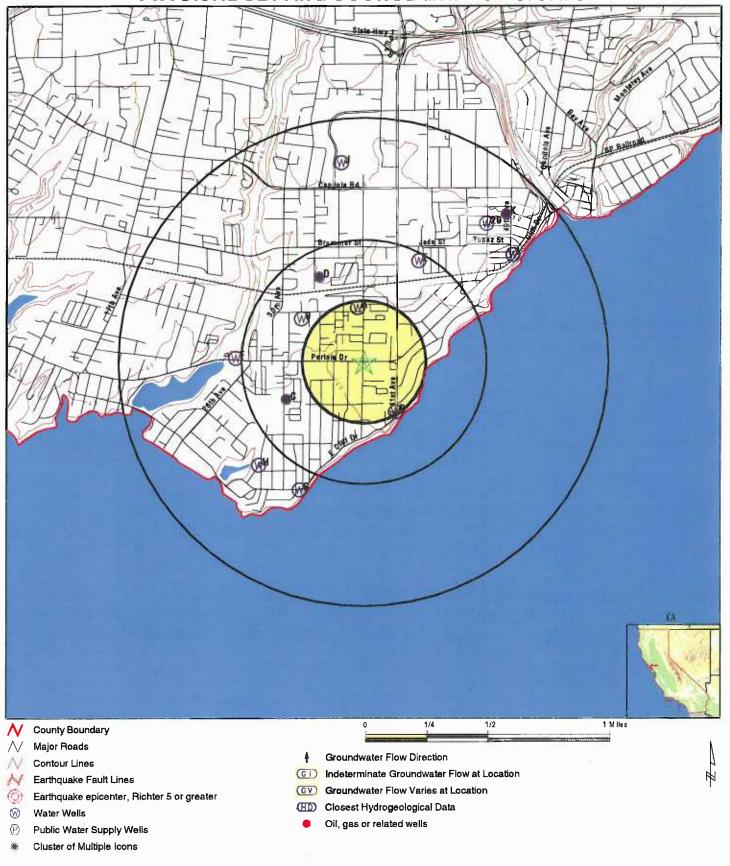
		LOCATION
MAP ID	WELL ID	FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	10558	1/8 - 1/4 Mile North
A2	10556	1/8 - 1/4 Mile North
A3	10559	1/8 - 1/4 Mile North
A4	22526	1/8 - 1/4 Mile North
A5	10560	1/8 - 1/4 Mile North
B6	CADW50000026091	1/8 - 1/4 Mile SSE
B7	CADW50000026092	1/8 - 1/4 Mile SSE
B8	CADW50000026093	1/8 - 1/4 Mile SSE
9	CADW50000026127	1/4 - 1/2 Mile NW
C11	CADW50000026098	1/4 - 1/2 Mile WSW
D13	CADW50000026170	1/4 - 1/2 Mile NNW
D14	CADW50000026166	1/4 - 1/2 Mile NNW
D15	CADW50000026167	1/4 - 1/2 Mile NNW
F18	CADW50000026117	1/2 - 1 Mile West
F19	CADW50000026118	1/2 - 1 Mile West
F20	CADW50000026119	1/2 - 1 Mile West
G21	CADW50000026066	1/2 - 1 Mile SSW
G22	CADW50000026067	1/2 - 1 Mile SSW
G23	CADW50000026068	1/2 - 1 Mile SSW
H24	CADW50000026076	1/2 - 1 Mile SW
H25	CADW50000026077	1/2 - 1 Mile SW
H26	CADW50000026078	1/2 - 1 Mile SW
127	CADW50000026181	1/2 - 1 Mile NE
128	CADW50000026182	1/2 - 1 Mile NE
29	22554	1/2 - 1 Mile NE
K32	CADW50000026202	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 3779737.2s



SITE NAME: 3800 Portola Drive ADDRESS: 3800 Portola Drive Santa Cruz CA 95062 LAT/LONG: 36.9634 / 121.9673 CLIENT: Remediation Risk Management

CONTACT: Cate Townsend INQUIRY #: 3779737.2s

DATE: November 07, 2013 2:26 pm

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Map ID Direction Distance

Elevation

Database

EDR ID Number

North 1/8 - 1/4 Mile

Higher

CA WELLS

10558

Water System Information:

Prime Station Code:

11S/01W-21B02 M 4410010006

User ID:

HEN

FRDS Number: District Number:

05

County: Station Type: Santa Cruz

Undefined

Water Type:

Well/Groundwater 365800.0 1215800.0 Well Status: Precision:

WELL/AMBNT/MUN/INTAKE/SUPPLY Active Raw

Source Lat/Long: Source Name: System Number:

BELTZ WELL 07

4410010

Santa Cruz Water Department

Organization That Operates System:

809 CENTER STREET, ROOM 102

SANTA CRUZ, CA 95060

Pop Served:

System Name:

80000

Connections:

21949

Area Served:

SANTA CRUZ

10556

10559

CA WELLS

North 1/8 - 1/4 Mile Higher

Water System Information:

Prime Station Code:

11S/01W-16R02 M 4410010004

User ID:

HEN

FRDS Number: District Number:

05

County:

Santa Cruz

Water Type:

WELL/AMBNT/MUN/INTAKE/SUPPLY

Source Lat/Long:

Well/Groundwater 365800.0 1215800.0 Station Type: Well Status: Precision:

Active Raw Undefined

Source Name: System Number: **BELTZ WELL 04**

SANTA CRUZ

System Name:

4410010

Santa Cruz Water Department

Organization That Operates System:

809 CENTER STREET, ROOM 102

SANTA CRUZ, CA 95060

Pop Served: Area Served: 00008

Connections:

21949

North 1/8 - 1/4 Mile Higher

CA WELLS

Water System Information:

Prime Station Code:

11S/01W-21G01 M

User ID:

HEN

FRDS Number: District Number:

4410010002

County: Station Type:

Santa Cruz WELL/AMBNT/MUN/INTAKE/SUPPLY

Water Type:

05

Well/Groundwater 365800.0 1215800.0 Well Status:

Active Raw

Source Lat/Long: Source Name:

BELTZ WELL 01

Precision:

Undefined

System Number:

4410010

System Name:

Santa Cruz Water Department

Organization That Operates System:

809 CENTER STREET, ROOM 102

SANTA CRUZ, CA 95060

Pop Served: Area Served: 80000

SANTA CRUZ

Connections:

21949

North 1/8 - 1/4 Mile Higher

CA WELLS

22526

Water System Information:

Prime Station Code:

E44/010-BELTZTR

User ID:

HEN

FRDS Number: District Number: 4410010001 05

County: Station Type:

Santa Cruz WELL/AMBNT/MUN/INTAKE

Water Type:

Well/Groundwater

Well Status:

Active Treated

Source Lat/Long:

365800.0 1215800.0

Precision:

1 Mile (One Minute)

Source Name: System Number: **BELTZ TREATMENT PLANT - TREATED** 4410010

Santa Cruz Water Department

System Name: Organization That Operates System:

809 CENTER STREET, ROOM 102

SANTA CRUZ, CA 95060

Pop Served:

80000

Connections:

21949

Area Served:

SANTA CRUZ 04/20/2011

0.21 NTU

Sample Collected: Chemical:

TURBIDITY, LABORATORY

Findings:

5.e-002 NTU

Sample Collected: Chemical:

05/18/2011 TURBIDITY, LABORATORY Findings:

Sample Collected:

06/29/2011 Chemical: TURBIDITY, LABORATORY Findings:

7.e-002 NTU

Sample Collected:

07/27/2011

Findings:

2. TON

Chemical:

ODOR THRESHOLD @ 60 C

07/27/2011

Findings:

Sample Collected: Chemical:

TURBIDITY, LABORATORY

9.e-002 NTU

Sample Collected:

08/23/2011 **CHLORATE** Findings:

280. UG/L

Chemical:

Sample Collected: Chemical:

08/24/2011 TURBIDITY, LABORATORY Findings:

9.e-002 NTU

Sample Collected:

09/21/2011 TURBIDITY, LABORATORY Findings:

0.11 NTU

Chemical:

Findings:

0.613 PCI/L

Sample Collected: Chemical:

10/04/2011 GROSS ALPHA COUNTING ERROR

19.3 C

Sample Collected: Chemical:

10/04/2011 SOURCE TEMPERATURE C Findings:

Sample Collected: Chemical:

10/04/2011 COLOR

Findings:

1. UNITS

Sample Collected: Chemical:	10/04/2011 SPECIFIC CONDUCTANCE	Findings:	745. US
Sample Collected: Chemical:	10/04/2011 PH, LABORATORY	Findings:	7.9
Sample Collected: Chemical:	10/04/2011 ALKALINITY (TOTAL) AS CACO3	Findings:	152. MG/L
Sample Collected: Chemical:	10/04/2011 BICARBONATE ALKALINITY	Findings:	152. MG/L
Sample Collected: Chemical:	10/04/2011 HARDNESS (TOTAL) AS CACO3	Findings:	254. MG/L
Sample Collected: Chemical:	10/04/2011 CHLORIDE	Findings:	62. MG/L
Sample Collected: Chemical:	10/04/2011 TOTAL DISSOLVED SOLIDS	Findings:	513. MG/L
Sample Collected: Chemical:	10/04/2011 TURBIDITY, LABORATORY	Findings:	9.e-002 NTU
Sample Collected: Chemical:	10/04/2011 CALCIUM	Findings:	70. MG/L
Sample Collected: Chemical:	10/04/2011 MAGNESIUM	Findings:	18. MG/L
Sample Collected: Chemical:	10/04/2011 SODIUM	Findings:	51. MG/L
Sample Collected: Chemical:	10/04/2011 POTASSIUM	Findings:	6.6 MG/L
Sample Collected: Chemical:	10/04/2011 TOTAL TRIHALOMETHANES	Findings:	1.2 UG/L
Sample Collected: Chemical:	04/18/2012 TURBIDITY, LABORATORY	Findings:	4.e-002 NTU
Sample Collected: Chemical:	05/01/2012 TURBIDITY, LABORATORY	Findings:	8.e-002 NTU
Sample Collected: Chemical:	06/13/2012 TURBIDITY, LABORATORY	Findings:	0.13 NTU
Sample Collected: Chemical:	07/11/2012 TURBIDITY, LABORATORY	Findings:	6.e-002 NTU
Sample Collected: Chemical:	08/08/2012 TURBIDITY, LABORATORY	Findings:	6.e-002 NTU
Sample Collected: Chemical:	08/27/2012 CHLORATE	Findings:	230. UG/L
Sample Collected: Chemical:	09/05/2012 TURBIDITY, LABORATORY	Findings:	7.e-002 NTU
Sample Collected: Chemical:	10/02/2012 COLOR	Findings:	1. UNITS
Sample Collected: Chemical:	10/02/2012 SPECIFIC CONDUCTANCE	Findings:	715. US

Sample Collected: Chemical:	10/02/2012 PH, LABORATORY	Findings:	8.1
Sample Collected: Chemical:	10/02/2012 ALKALINITY (TOTAL) AS CACO3	Findings:	146. MG/L
Sample Collected: Chemical:	10/02/2012 BICARBONATE ALKALINITY	Findings:	146. MG/L
Sample Collected: Chemical:	10/02/2012 HARDNESS (TOTAL) AS CACO3	Findings:	256. MG/L
Sample Collected: Chemical:	10/02/2012 CHLORIDE	Findings:	65. MG/L
Sample Collected: Chemical:	10/02/2012 TOTAL DISSOLVED SOLIDS	Findings:	507. MG/L
Sample Collected: Chemical:	10/02/2012 TURBIDITY, LABORATORY	Findings:	7.e-002 NTU
Sample Collected: Chemical:	10/02/2012 CALCIUM	Findings:	74. MG/L
Sample Collected: Chemical:	10/02/2012 MAGNESIUM	Findings:	20. MG/L
Sample Collected: Chemical:	10/02/2012 SODIUM	Findings:	54. MG/L
Sample Collected: Chemical:	10/02/2012 POTASSIUM	Findings:	7. MG/L
Sample Collected: Chemical:	01/28/2013 TURBIDITY, LABORATORY	Findings:	0.1 NTU
Sample Collected: Chemical:	02/20/2013 TURBIDITY, LABORATORY	Findings:	7.e-002 NTU
Sample Collected: Chemical:	05/31/2013 TURBIDITY, LABORATORY	Findings:	5.e-002 NTU
Sample Collected: Chemical:	06/12/2013 TURBIDITY, LABORATORY	Findings:	0.23 NTU
Sample Collected: Chemical:	06/12/2013 IRON	Findings:	220. UG/L
Sample Collected: Chemical:	06/12/2013 MANGANESE	Findings:	26. UG/L

A5 North 1/8 - 1/4 Mile Higher

CA WELLS 10560

Water System Information:

Prime Station Code: 11S/01W-21G02 M FRDS Number: 4410010003 District Number: 05

District Number: 05 Water Type: Well/Groundwater

Source Lat/Long: 365800.0 1215800.0 Source Name: BELTZ WELL 02

County: Station Type: Well Status: Precision:

User ID:

HEN Santa Cruz WELL/AMBNT/MUN/INTAKE/SUPPLY

Active Raw

Undefined

System Number:

4410010

System Name:

Santa Cruz Water Department

Organization That Operates System:

809 CENTER STREET, ROOM 102

SANTA CRUZ, CA 95060

Pop Served:

80000

Connections:

Area Served: SANTA CRUZ

CA WELLS

21949

CADW50000026091

CADW50000026092

CADW50000026093

B6 SSE 1/8 - 1/4 Mile

Lower

Latitude:

36.96042

Longitude:

121.964979

Site code:

Org unit n:

369604N1219650W001

Pleasure PT. Shallow

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

44

Basin cd:

3-26

South Central Region Office Site id:

Basin desc:

West Santa Cruz Terrace

CADW50000026091

CA WELLS

B7 SSE 1/8 - 1/4 Mile

Lower

36.96042

Latitude: Longitude:

121.964979

Site code: Local well:

369604N1219650W002 Pleasure PT. Medium

Casgem sta: Casgem s 1:

Not Reported Observation

County id: Basin cd:

3-26

Basin desc:

West Santa Cruz Terrace

Org unit n:

South Central Region Office

Site id:

CADW50000026092

CA WELLS

SSE 1/8 - 1/4 Mile Lower

Latitude:

Longitude:

36.96042 121.964979

Site code:

369604N1219650W003 Pleasure PT. Deep

Casgem sta:

Not Reported

Local well:

44

Casgem s 1:

Observation

County id: Basin cd:

3-26

Basin desc:

West Santa Cruz Terrace

Org unit n:

South Central Region Office

Site id:

CADW50000026093

NW 1/4 - 1/2 Mile Higher

CA WELLS

Latitude:

36.965952

Longitude:

121.971887

Site code:

369660N1219719W001

South Central Region Office

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id: Basin cd:

Org unit n:

Santa Margarita TW 44

3-26

Basin desc: Site id:

West Santa Cruz Terrace

FED USGS

CADW50000026127

C10 wsw 1/4 - 1/2 Mile Lower

Org. Identifier:

USGS-CA

Formal name:

USGS California Water Science Center

Monloc Identifier:

USGS-365741121581901

Monloc name:

011S001W21G001M

Monloc type:

Well

Monloc desc:

Not Reported

Huc code:

18060001

Not Reported

Drainagearea value: Contrib drainagearea: Not Reported Not Reported

Drainagearea Units:

Not Reported

Latitude:

Horiz Acc measure units:

36.9613397

Contrib drainagearea units: Longitude:

-121.973016

Sourcemap scale:

24000 seconds

Horiz Acc measure: Horiz Collection method:

Interpolated from map

20.00

Horiz coord refsys:

NAD83 feet

Vert measure val: Vertacc measure val:

10

Vert measure units: Vert accmeasure units: Vertcollection method:

feet Interpolated from topographic map

Vert coord refsys:

NGVD29 Countrycode: US

Aquifername:

California Coastal Basin aquifers

Formation type:

Not Reported

Aquifer type:

Not Reported

Welldepth:

125

Construction date:

19510403

ft

Wellholedepth:

125

Welldepth units: Wellholedepth units:

ft

Ground-water levels, Number of Measurements: 1

Feet below Feet to

Date

Surface

Sealevel

1971-03-31 3.00

C11 1/4 - 1/2 Mile Lower

CA WELLS

CADW50000026098

USGS40000179947

Latitude:

36.961016

Longitude: Site code:

121.972936

369610N1219729W001

Casgem sta: Casgem s 1: Not Reported

Local well: County id:

Beltz #2 44

Observation

Basin cd:

3-26

Basin desc:

West Santa Cruz Terrace

Org unit n:

South Central Region Office

Site id:

Map ID Direction Distance

Elevation

Database **FED USGS**

EDR ID Number USGS40000180030

D12 NNW 1/4 - 1/2 Mile Higher

Org. Identifier:

Formal name:

USGS-CA USGS California Water Science Center

Monloc Identifier:

USGS-365807121580801 011S001W16Q001M

Monloc name: Monloc type:

Well

Monloc desc:

Longitude:

Huc code: Drainagearea Units: Not Reported 18060001

Not Reported Contrib drainagearea units: Not Reported -121.9699604

Contrib drainagearea:

Latitude: Sourcemap scale:

Vert measure val: Vertacc measure val:

Horiz Acc measure units:

Drainagearea value:

24000 seconds

60.00

10

US

Not Reported

Not Reported

36.9685617

Horiz Acc measure: Horiz Collection method:

Vert measure units:

Horiz coord refsys:

Interpolated from map

NAD83

feet

feet

Vert accmeasure units: Vertcollection method: Vert coord refsys:

NGVD29

Interpolated from topographic map Countrycode:

Aquifername: California Coastal Basin aquifers Formation type: Not Reported

Aquifer type: Construction date: Welldepth units:

Wellholedepth units:

Not Reported 19500101

ft

Welldepth: Wellholedepth:

98 98

Ground-water levels, Number of Measurements: 1

Feet below

Feet to Surface Sealevel

1978-02-01 57.00

D13 NNW 1/4 - 1/2 Mile Higher

Date

Latitude: Longitude : 36.9686 121.97

Site code: Local well:

Not Reported

369686N1219700W001

South Central Region Office

Casgem sta: Casgem s 1:

11S01W16Q001M Unknown

County id: Basin cd: Org unit n: 44 3-26

Basin desc: Site id:

West Santa Cruz Terrace CADW50000026170

CA WELLS

D14 NNW 1/4 - 1/2 Mile Higher

CA WELLS

CADW50000026166

Latitude:

36.968311

Longitude:

121.971166

Site code:

369683N1219712W001

Beltz #4 Shallow

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

44

Basin cd: Org unit n:

3-26

South Central Region Office

Basin desc:

Site id:

West Santa Cruz Terrace

CADW50000026166

CA WELLS

CADW50000026167

USGS40000180040

D15 NNW 1/4 - 1/2 Mile Higher

Latitude:

36.968311

Longitude: Site code:

121.971166

Local well:

369683N1219712W002 Beltz #4 Deep

Casgem sta: Casgem s 1: Not Reported Observation

County id:

44

Basin desc:

Basin cd: Org unit n: 3-26 South Central Region Office

Site id:

West Santa Cruz Terrace CADW50000026167

FED USGS

E16 NNE 1/4 - 1/2 Mile Higher

Org. Identifier:

USGS-CA

Formal name:

USGS California Water Science Center

Monloc Identifier: Monloc name:

USGS-365810121574402 011S001W15L003M

Monloc type:

Well

Monloc desc: Huc code:

Not Reported

18060001 Not Reported Drainagearea value: Contrib drainagearea: Latitude:

Not Reported Not Reported 36.9693951 Not Reported

Unknown

Drainagearea Units: Contrib drainagearea units: Not Reported Longitude:

-121.9632934

Sourcemap scale:

Horiz Acc measure units:

Horiz Acc measure: Horiz Collection method: Unknown Interpolated from map

Horiz coord refsys: NAD83 Vert measure units: feet

Vert measure val: Vertacc measure val:

Vert accmeasure units: Vertcollection method:

feet Interpolated from topographic map

Countrycode:

US

75.00

10

Vert coord refsys: Aquifername:

NGVD29

California Coastal Basin aquifers Purisima Formation

Aquifer type: Construction date: Not Reported Not Reported

Welldepth: Wellholedepth: 256

Welldepth units: Wellholedepth units:

Formation type:

ft Not Reported Not Reported

Ground-water levels, Number of Measurements: 0

NNE 1/4 - 1/2 Mile Higher

FED USGS

USGS40000180041

Org. Identifier:

USGS-CA

Formal name:

USGS California Water Science Center

Monloc Identifier:

USGS-365810121574403

Monloc name:

011S001W15L005M

Monloc type:

Well

Monloc desc:

Not Reported

Huc code:

18060001

Contrib drainagearea:

Not Reported Not Reported

Drainagearea Units:

Not Reported Not Reported

Latitude:

Drainagearea value:

36.9693951

Contrib drainagearea units:

-121.9632934

Sourcemap scale:

Not Reported

Longitude: Horiz Acc measure:

Horiz Acc measure units:

seconds

Horiz Collection method:

Interpolated from map

Horiz coord refsys: Vert measure units: NAD83 Not Reported Vert measure val: Vertacc measure val: Not Reported Not Reported

Vert accmeasure units: Vertcollection method:

Not Reported Not Reported

Vert coord refsys:

Not Reported

Countrycode:

US

Aquifername: Formation type: California Coastal Basin aquifers Not Reported

Aquifer type: Construction date: Not Reported Not Reported

Welldepth: Wellholedepth: Not Reported Not Reported

Welldepth units: Wellholedepth units: Not Reported Not Reported

Ground-water levels, Number of Measurements: 0

F18 West 1/2 - 1 Mile Lower

CA WELLS

CADW50000026117

Latitude : Longitude: Site code:

36.963613

121.97677 369636N1219768W001

Casgem sta: Corcoran Shallow Casgem s 1: Not Reported Observation

Local well: County id: Basin cd: Org unit n:

44 3-26

South Central Region Office

Basin desc: Site id:

West Santa Cruz Terrace CADW50000026117

F19 West 1/2 - 1 Mile Lower

CA WELLS

CADW50000026118

Latitude:

36.963613

Longitude: Site code:

121.97677

369636N1219768W002 Corcoran Medium

South Central Region Office

Casgem sta: Casgem s 1:

Not Reported Observation

Local well: County id:

44

Basin desc:

Basin cd: Org unit n: 3-26

Site id:

West Santa Cruz Terrace CADW50000026118

F20

West 1/2 - 1 Mile Lower

CA WELLS

Latitude:

36.963613

Longitude :

121.97677

Site code:

369636N1219768W003

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

Corcoran Deep

44

3-26

Basin desc:

West Santa Cruz Terrace

Basin cd: Org unit n:

South Central Region Office Site id: CADW50000026119

G21

SSW 1/2 - 1 Mile Lower

CA WELLS

CADW50000026066

CADW50000026067

Latitude :

36.955789

Longitude:

121.972012

Site code:

369558N1219720W001

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

Soquel Point Shallow 44

West Santa Cruz Terrace

Basin cd: Org unit n: 3-26

South Central Region Office

Basin desc: Site id:

CADW50000026066

CA WELLS

G22 SSW 1/2 - 1 Mile Lower

Latitude:

36.955789

Longitude:

121.972012

Site code:

369558N1219720W002

Casgem sta:

Not Reported

Local well:

44

Soquel Point Medium

Casgem s 1:

Observation

County id: Basin cd:

3-26

Basin desc:

West Santa Cruz Terrace

Org unit n:

South Central Region Office

Site id:

CADW50000026067

G23 SSW 1/2 - 1 Mile

Lower

CA WELLS

CADW50000026068

Latitude:

36.955789

Longitude: Site code:

121.972012

369558N1219720W003 Soquel Point Deep

Casgem sta:

Not Reported

Local well:

44

Casgem s 1:

Observation

County id:

Basin desc:

West Santa Cruz Terrace

Basin cd: Org unit n: 3-26

South Central Region Office

Site id:

CADW50000026068

H24 SW 1/2 - 1 Mile

Lower

CA WELLS

Latitude:

36.957257

Longitude:

121.97503

Site code:

369573N1219750W001 Moran Lake Shallow

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

Basin cd: Org unit n:

3-26

Basin desc:

West Santa Cruz Terrace

South Central Region Office

Site id:

CADW50000026076

H25

SW 1/2 - 1 Mile Lower

CA WELLS

CADW50000026077

Latitude:

36.957257

Longitude: Site code:

121.97503

369573N1219750W002

Casgem sta: Casgem s 1: Not Reported Observation

Local well: County id:

44

Moran Lake Medium

Basin desc:

West Santa Cruz Terrace

Basin cd: Org unit n: 3-26 South Central Region Office

Site id:

CADW50000026077

H26 SW

1/2 - 1 Mile

CA WELLS

CADW50000026078

Lower

Latitude:

36.957257

Longitude: Site code:

121.97503

369573N1219750W003

Casgem sta:

Not Reported

Local well:

Org unit n:

Moran Lake Deep

Casgem s 1:

Observation

County id: Basin cd:

44

3-26

Basin desc:

West Santa Cruz Terrace CADW50000026078

Site id: South Central Region Office

NE

1/2 - 1 Mile Lower

CA WELLS

CADW50000026181

Latitude:

36.969764

Longitude : Site code:

121.956309

369698N1219563W001

Casgem sta:

Not Reported

Local well: County id:

SC-1A 44

Casgem s 1:

Observation

Basin cd:

3-1

Basin desc:

Soquel Valley

Org unit n:

South Central Region Office

Site id:

CADW50000026181

128

NE 1/2 - 1 Mile Lower

CA WELLS

Latitude:

36.969764

Longitude:

121.956309

Site code:

369698N1219563W002 SC-1B

Casgem sta: Casgem s 1:

Not Reported Observation

Local well: County id:

44

Basin cd:

3-1

Basin desc:

Soquel Valley

Org unit n:

South Central Region Office Site id:

CADW50000026182

1/2 - 1 Mile Higher

CA WELLS 22554

Water System Information:

Prime Station Code:

E44/017-TRTDOPA

User ID:

HEN

FRDS Number:

4410017020

County:

Santa Cruz

District Number: Water Type:

05 Well/Groundwater Station Type: Well Status:

STREAM/AMBNT/MUN/INTAKE

Source Lat/Long:

365818.0 1215726.0 **OPAL WTP - TREATED** Precision:

Active Treated 100 Feet (one Second)

Source Name: System Number:

4410017

System Name:

Soquel Creek Water District

Organization That Operates System:

P O BOX 158

SOQUEL, CA 95073

Pop Served:

38460

Connections:

12820

Area Served:

SOQUEL APTOS

Sample Collected:

01/31/2011 IRON

Findings:

170. UG/L

Chemical:

Sample Collected:

01/31/2011

Findings:

Chemical:

MANGANESE

23. UG/L

Sample Collected:

02/24/2011

Findings:

Chemical:

IRON

190. UG/L

Sample Collected:

Chemical:

02/24/2011 MANGANESE Findings:

22. UG/L

Sample Collected:

03/31/2011

Findings:

270. UG/L

Chemical:

IRON

Sample Collected: Chemical:

03/31/2011 MANGANESE Findings:

30. UG/L

Sample Collected: Chemical:

04/29/2011 IRON

Findings:

120. UG/L

Sample Collected:

05/31/2011

Findings:

260. UG/L

Chemical: Sample Collected: **IRON** 06/10/2011

Findings:

200. UG/L

Chemical: Sample Collected:

Chemical:

07/29/2011

IRON

IRON

Findings:

110. UG/L

Sample Collected: Chemical:	08/31/2011 IRON	Findings:	110. UG/L
Sample Collected: Chemical:	09/30/2011 IRON	Findings:	150. UG/L
Sample Collected: Chemical:	10/27/2011 COLOR	Findings:	3.2 UNITS
Sample Collected: Chemical:	10/27/2011 PH, LABORATORY	Findings:	7.33
Sample Collected: Chemical:	10/27/2011 TURBIDITY, LABORATORY	Findings:	0.247 NTU
Sample Collected: Chemical:	12/21/2011 IRON	Findings:	110. UG/L
Sample Collected: Chemical:	04/27/2012 IRON	Findings:	210. UG/L
Sample Collected: Chemical:	01/29/2013 IRON	Findings:	300. UG/L
Sample Collected: Chemical:	01/29/2013 MANGANESE	Findings:	33. UG/L
Sample Collected: Chemical:	02/13/2013 TURBIDITY, LABORATORY	Findings:	0.11 NTU
Sample Collected: Chemical:	02/14/2013 IRON	Findings:	150. UG/L
Sample Collected: Chemical:	06/13/2013 COLOR	Findings:	2.8 UNITS
Sample Collected: Chemical:	06/13/2013 TURBIDITY, LABORATORY	Findings:	0. 129 NT U

J30 North 1/2 - 1 Mile Higher

FED USGS

USGS40000180096

Org. Identifier:

USGS-CA

Formal name: Monloc Identifier: USGS California Water Science Center

Monloc name:

USGS-365830121580501

011S001W16H001M

Monloc type:

Monloc desc:

Well

Huc code:

Not Reported 18060001

Drainagearea Units:

Not Reported Contrib drainagearea units: Not Reported Drainagearea value: Contrib drainagearea: Latitude:

Not Reported Not Reported 36.9749504 24000

Longitude:

-121.969127

Sourcemap scale: Horiz Acc measure units:

seconds

Horiz Acc measure:

Interpolated from map

Horiz Collection method:

NAD83

Vert measure val:

80.00

Horiz coord refsys: Vert measure units:

feet

feet

Vertacc measure val:

005

US

Vert accmeasure units: Vertcollection method: Altimeter

Countrycode:

Vert coord refsys: NGVD29 Aquifername:

California Coastal Basin aquifers

Formation type:

Purisima Formation

Aquifer type:

Not Reported

Construction date: Welldepth units:

Not Reported ft

Welldepth:

102

Wellholedepth units:

ft

Wellholedepth:

102

Ground-water levels, Number of Measurements: 22

	Feet below			_	Feet below	
	Surface			Date	Surface	
1982-06-09				1982-05-11		
1982-04-13	56.49			1982-03-09	56.81	
1982-02-09	57.34			1981-12-08	56.64	
1981-11-09	65.39					
Note: A ne	earby site that	taps the same	e aquifer was being pump	ed.		
1981-10-09	62.14					
Note: A ne	earby site that	taps the same	aquifer was being pump	ed.		
1981-09-11	62.59					
Note: A ne	earby site that	taps the same	e aquifer was being pump	ed.		
1981-08-13	62.19			1981-07-07	60.14	
1981-06-08						
1981-04-15	56.78					
Note: The	site had been	pumped rece	ntly.			
1981-03-19				1981-02-19	56.40	
1981-01-16						
	61.64					
	•	taps the same	e aquifer was being pump	ed.		
1980-10-17						
	•	taps the same	e aquifer was being pump	ed.		
1980-09-11						
		taps the same	e aquifer was being pump	ed.		
1978-08-10	58.87					
	64.95					
	,	taps the same	e aquifer was being pump	ed.		
1966-02-16	57.3					

K31 NE 1/2 - 1 Mile Higher

FED USGS

USGS40000180075

Org. Identifier:

USGS-CA

Formal name: Monloc Identifier: USGS California Water Science Center USGS-365820121572102

Monloc name:

011S001W15L002M

Monloc type:

Monloc desc:

Well

Not Reported 18060001

Huc code: Drainagearea Units:

Not Reported Contrib drainagearea units: Not Reported

Drainagearea value: Contrib drainagearea: Latitude:

Not Reported Not Reported 36.9721728

Longitude:

-121.9569042

Sourcemap scale: Horiz Acc measure units: 24000 seconds

Horiz Acc measure: Horiz Collection method:

Interpolated from map NAD83

Vert measure val: 75.00

Horiz coord refsys: Vert measure units:

feet feet Vertacc measure val:

10

US

Vert accmeasure units: Vertcollection method:

Interpolated from topographic map Countrycode:

Vert coord refsys:

California Coastal Basin aquifers

Aquifername: Formation type:

Not Reported

Aquifer type:

Not Reported

Construction date: Welldepth units:

19540101

Welldepth:

256

Feet below

Surface

Wellholedepth units:

ft ft

Wellholedepth:

256

Ground-water levels, Number of Measurements: 4

Feet below

Feet to

Feet to

Date

Sealevel Surface

Date

Sealevel

1981-04-14 86 1967-02-01 66.64

1978-08-13 78

1967-02 66.64

K32 NE 1/2 - 1 Mile Higher

Latitude: Longitude: Site code:

36.9722

121.9569

369722N1219569W001

Casgem sta: Casgem s 1: 11S01W15L002M

CA WELLS

CADW50000026202

USGS40000180101

Local well: County id:

44

Not Reported

Basin desc:

Soquel Valley

Unknown

Basin cd:

Org unit n:

South Central Region Office

Site id:

CADW50000026202

FED USGS

J33 North 1/2 - 1 Mile Higher

Org. Identifier:

USGS-CA

Well

Formal name:

USGS California Water Science Center USGS-365832121580401

Monloc Identifier:

Monloc name:

011S001W16H002M

Monloc type:

Monloc desc:

Not Reported

Huc code:

18060001

Not Reported

Drainagearea value: Contrib drainagearea: Latitude:

Not Reported Not Reported 36.975506

Contrib drainagearea units: Not Reported Longitude:

-121.9688493

Sourcemap scale:

Not Reported

Horiz Acc measure:

Drainagearea Units:

Unknown

Horiz Acc measure units:

Unknown

Horiz Collection method:

Interpolated from map NAD83

Vert measure val:

Not Reported

Horiz coord refsys: Vert measure units:

Not Reported

Vertacc measure val:

Not Reported

Vert accmeasure units: Vertcollection method:

Not Reported

US

Vert coord refsys:

Not Reported Not Reported

Countrycode: California Coastal Basin aquifers

Aquifername:

Formation type: Aquifer type: Construction date: Not Reported Not Reported

Welldepth: Wellholedepth:

Not Reported Not Reported

Welldepth units:

Not Reported Not Reported

Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

Direction Distance Elevation			Database	EDR ID Number
K34 NE 1/2 - 1 Mile Higher			FED USGS	USGS40000180074
Org. Identifier:	USGS-CA			
Formal name:	USGS California Water Science	Center		
Monloc Identifier:	USGS-365820121572001			
Monloc name:	011S001W15L001M			
Monloc type:	Well			
Monloc desc:	Not Reported			
Huc code:	18060001	Drainagearea value:	Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported	
Contrib drainagearea units:	Not Reported	Latitude:	36.9721728	
Longitude:	-121.9566264	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:	75.00	
Vert measure units:	feet	Vertacc measure val:	10	
Vert accmeasure units:	feet			
Vertcollection method:	Interpolated from topographic m	ар		
Vert coord refsys:	NGVD29	Countrycode:	US	
· · · · · · · · · · · · · · · · · · ·		•		

Welldepth: Wellholedepth:

211

211

Map ID

Aquifername:

Formation type: Aquifer type:

Construction date: Welldepth units:

Wellholedepth units:

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-04-14 1967-02-01	85 66.69		1978-08-13 1967-02	82 66.7	

California Coastal Basin aquifers

Purisima Formation Not Reported

19300101

ft

ft

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95062	255	3

Federal EPA Radon Zone for SANTA CRUZ 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 SANTA CRUZ COUNTY, CA

Number of sites tested: 9

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	89%	11%	0%
Living Area - 2nd Floor	1.900 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 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 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at

least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after

August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208 Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

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

radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

STREET AND ADDRESS INFORMATION

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EDR HISTORICAL TOPOGRAPHIC MAP REPORT

3800 Portola Drive 3800 Portola Drive Santa Cruz, CA 95062

Inquiry Number: 3779737.4

November 07, 2013

EDR Historical Topographic Map Report



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.

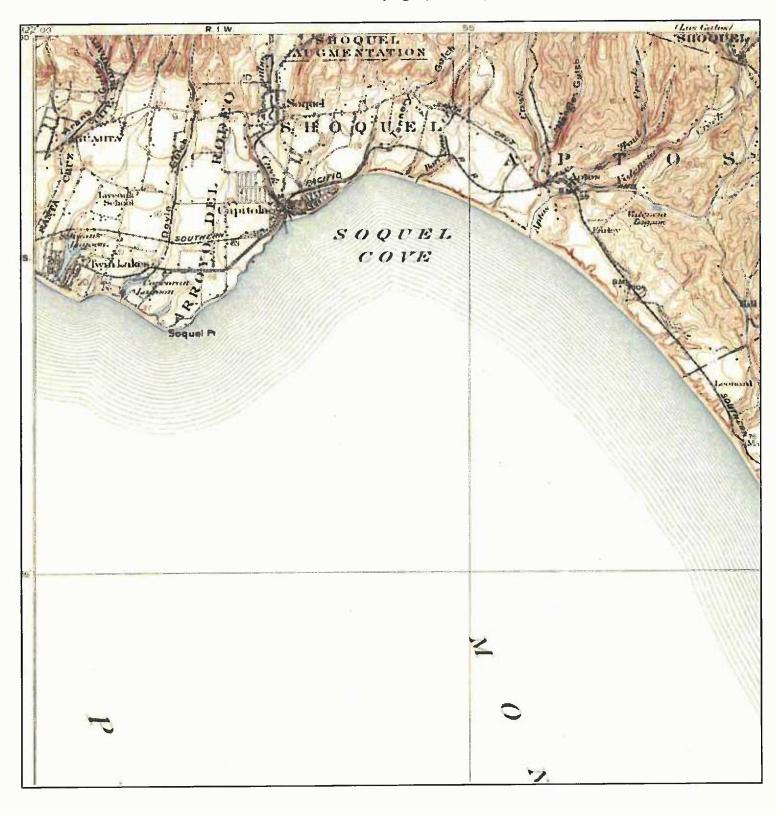
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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TARGET QUAD

CAPITOLA NAME:

15

MAP YEAR: 1914

SERIES:

SCALE: 1:62500

SITE NAME: 3800 Portola Drive ADDRESS:

3800 Portola Drive

Santa Cruz, CA 95062 LAT/LONG:

36.9634 / -121.9673

CLIENT:

Remediation Risk Management

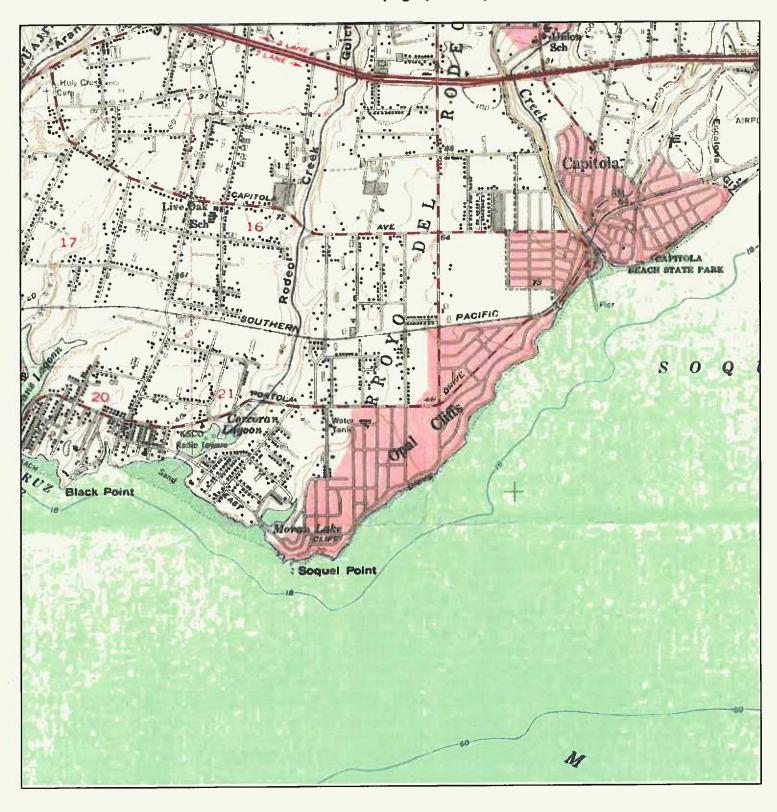
CONTACT:

Cate Townsend

INQUIRY#:

3779737.4

RESEARCH DATE: 11/07/2013



TARGET QUAD NAME:

SERIES: 7.5 SCALE: 1:24000

SOQUEL MAP YEAR: 1954

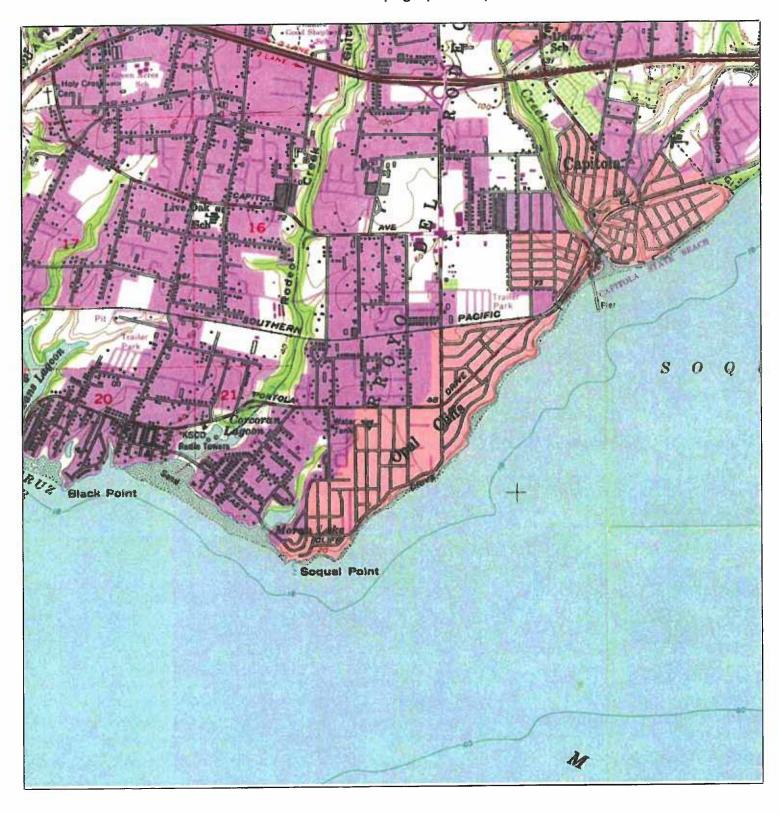
SITE NAME: 3800 Portola Drive 3800 Portola Drive ADDRESS:

Santa Cruz, CA 95062

36.9634 / -121.9673 LAT/LONG:

CLIENT: Remediation Risk Management

CONTACT: Cate Townsend INQUIRY#: 3779737.4 RESEARCH DATE: 11/07/2013



TARGET QUAD

SOQUEL NAME:

MAP YEAR: 1968

PHOTOREVISED FROM: 1954

SERIES: 7.5

SCALE:

1:24000

SITE NAME: 3800 Portola Drive ADDRESS: 3800 Portola Drive

Santa Cruz, CA 95062

LAT/LONG:

36.9634 / -121.9673

CLIENT:

Remediation Risk Management

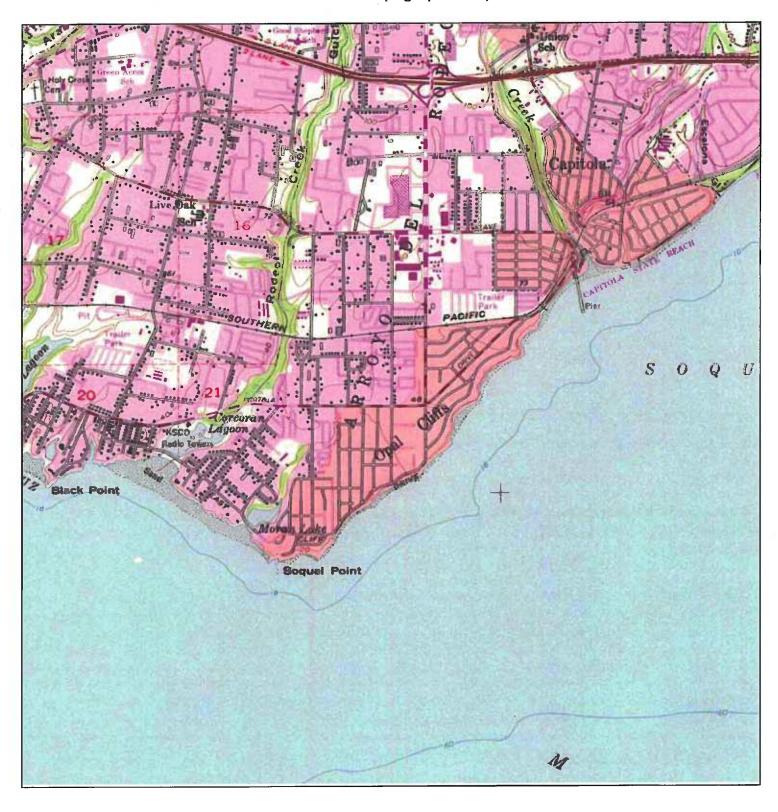
CONTACT:

Cate Townsend

INQUIRY#:

3779737.4

RESEARCH DATE: 11/07/2013



TARGET QUAD

SOQUEL NAME:

MAP YEAR: 1980

PHOTOREVISED FROM: 1954

SERIES:

SCALE:

7.5 1:24000

SITE NAME: 3800 Portola Drive

ADDRESS: 3800 Portola Drive

Santa Cruz, CA 95062

LAT/LONG: 36.9634 / -121.9673

CLIENT:

Remediation Risk Management

CONTACT:

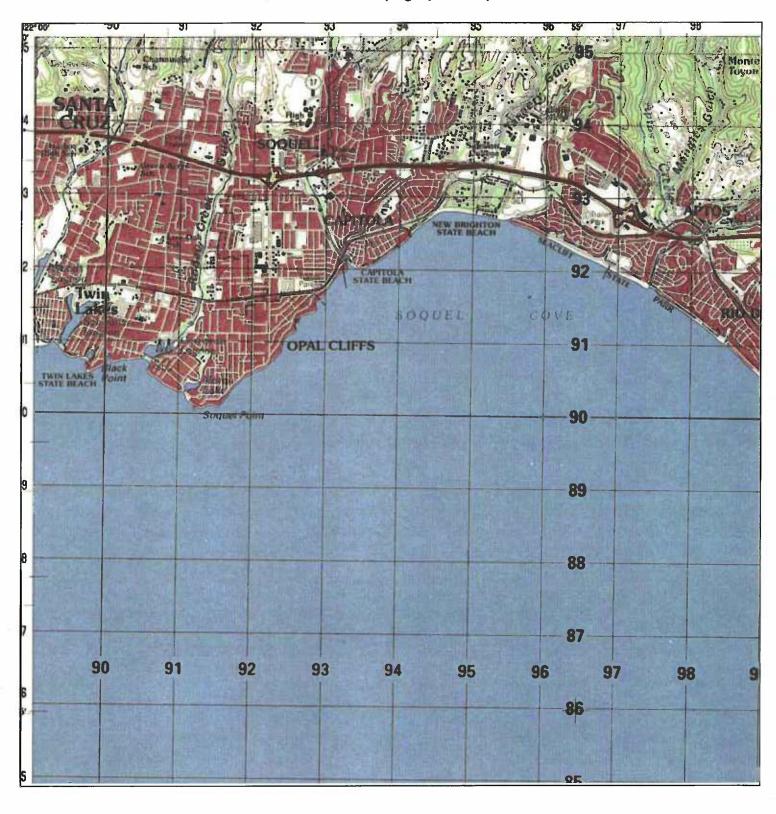
Cate Townsend

INQUIRY#:

3779737.4

RESEARCH DATE: 11/07/2013

Historical Topographic Map



TARGET QUAD

NAME: CAPITOLA

MAP YEAR: 1987

SERIES:

15

SCALE:

1:50000

ADDRESS:

SITE NAME: 3800 Portola Drive 3800 Portola Drive

Santa Cruz, CA 95062

LAT/LONG:

36.9634 / -121.9673

CLIENT:

Remediation Risk Management

CONTACT:

Cate Townsend

INQUIRY#:

3779737.4

RESEARCH DATE: 11/07/2013

Historical Topographic Map



N

TARGET QUAD
NAME: SOQUEL
MAP YEAR: 1994
REVISED FROM:1954

SERIES: 7.5 SCALE: 1:24000 SITE NAME: 3800 Portola Drive ADDRESS: 3800 Portola Drive

Santa Cruz, CA 95062

LAT/LONG: 36.9634 / -121.9673

CLIENT: Remediation Risk Management

CONTACT: Cate Townsend INQUIRY#: 3779737.4 RESEARCH DATE: 11/07/2013

D

REGULATORY CORRESPONDENCE RELATED TO 3800 PORTOLA DRIVE, SANTA CRUZ



California Regional Water Quality Control Board

Central Coast Region



Interest Address: http://www.waterboards.ca.gov/centrefccess 895 Aerovista Piece, Suite 101 Sen Luis Obispo, CA 93401-7905 Pagne (805) 549-3147 • FAX (805) 543-0397

April 14, 2005

Ms. Phyllis Wagner Mr. Kenneth De Frees P. O. Box 1248 Capitola, CA 95010

Dear Ms. Wagner and Mr. De Frees:

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SLIC: BIG CREEK LUMBER YARD - 3800 PORTOLA DRIVE, SANTA CRUZ, SANTA CRUZ COUNTY, CALIFORNIA; - REQUEST FOR INFORMATION

The Central Coast Water Board (Water Board) is a state regulatory agency with the responsibility for protecting the quality of the waters of the state within its area of jurisdiction. The Water Board has been given authority under state law to require submission of information. direct action, establish regulations, levy penalties and/or bring legal action when necessary to protect water quality. Records from nearby Spills, Leaks, Investigation, and Cleanup case files for the Walt Eller Properties located at 3910 and 3912 Portola Drive, Santa Cruz indicate volatile organic compounds were detected in the soil and groundwater. As shown on the enclosed Figures 2 and 3 and Table 1, trichloroethylene (TCE) and tetrachlorethylene (PCE) were detected in groundwater samples collected during previous investigations. The August 22, 2003 investigation indicates a detection of 1,000 micrograms per liter (µg/L) PCE and 5.3 µg/L TCE in the groundwater sample collected from monitoring well MW-12. The additional borings B-1 through B-3 indicate the volatile organic compounds may have migrated from possible offisite sources including your property. For your information, this Water Board's "Water Quality Control Plan, Central Coast Region" designates groundwater in the County of Santa Cruz as having beneficial uses for domestic and municipal supply, agricultural supply, and industrial supply. Therefore, the water quality objective for PCE and TCE are 5 µg/L.

Because hazardous materials, such as chlorinated solvents, may have been used and stored at your facility and because chlorinated solvents have degraded the local groundwater quality in this area, please provide the following information by July 30, 2005:

- 1. Provide a map showing the facility layout and a written description of your operations at 3800 Portola Drive, Santa Cruz.
- 2. Provide a list of hazardous materials stored and estimated quantity used at the subject property.
- 3. Provide copies of all environmental reports pertaining to Phase II and/or Phase II subsurface investigations at the subject site.

California Environmental Protection Agency



Failure to comply with these requirements will subject the responsible party to enforcement action by the Water Board, including issuance of an order under Water Code Sections 13267 and/or 13304, and potential administrative civil liabilities.

If you have any questions regarding this matter, please direct future correspondence to <u>Karvn</u> <u>Steckling at (805)-542-4642</u> or <u>Sheila Soderberg at (805)-5489-3492</u>.

Sincerely,

Cheila Coderberg for Roger W. Briggs Executive Officer

SASLICAR egulated Situri Santa Cruz ColSanta Cruz 3800 Portoin Drive Big Cruzk Lumber reg for info.doz

Enclosures: Figure 2 and Figure 3

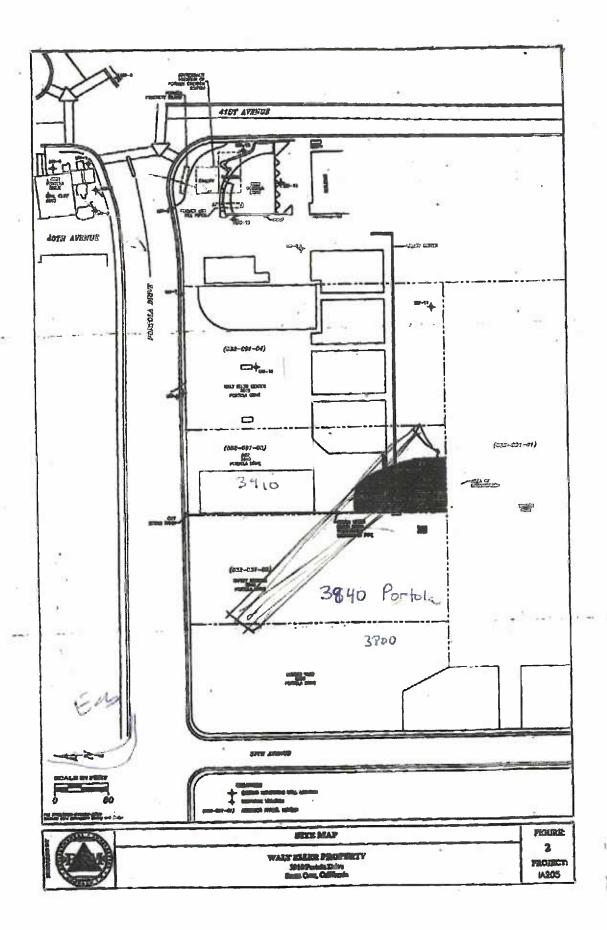
Table 1

cc:

Mr. Rolando Charles Santa Cruz County Environmental Health Services Agency 701 Ocean Street, Room 312 Santa Cruz, CA 95060

Mr. Dave Reinsma RRM Engineering 2560 Soquel Avenue, Suite 202 Santa Cruz, CA 95062

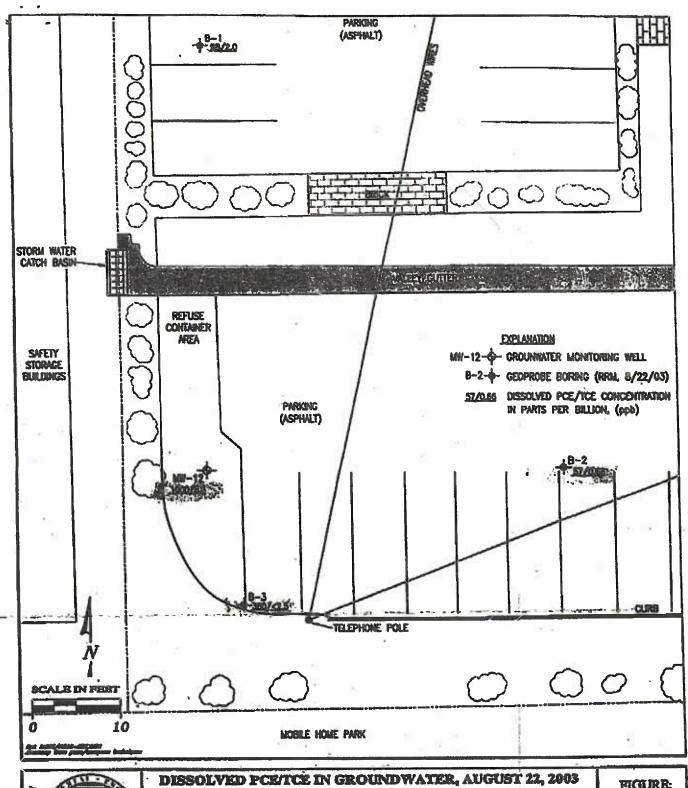
Ms. Patti Eller Robb Walt Eller Company 3912 Portola Drive, Suite 4 Santa Cruz, CA 95062-5261



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F.

5





WALT ELLER PROPERTY
3910 Protols Drive
Sents Crus, California

FIGURE: 3 PROJECT: IA205

05 JUL 25 PH 2: 31

July 22, 2005

Ms. Karyn Steckling CRWQCB 895 Aerovista Place, Suite 101 San Luis Obispo, Ca., 93401-7906 895 AERO ADRA PL. STE. 101 SAN LUIS OBISPO, CA 93491

RE: April 14, 2005

SLIC: Big Creek Lumber Yard- 3800 Portola Dr., Santa Cruz, Cal. Request For Information

Dear Ms. Steckling,

Enclosed herewith is a site plan labeled to familiarize you with the operation.

Big Creek Lumber operates a retail lumber yard at this location. No manufacturing or equipment repair is done at this location. The operation is retail sales of rough and finished lumber, plywood, lattice, and associated building supplies (nails, steel fasteners, sheetrock, etc.).

Big Creek keeps an approved hazardous materials storage cabinet onsite which contains the following;

- 1. One five gallon can of hydraulic fluid.
- 2. One five gallon can of diesel fuel.
- 3. One five gallon can of 15-40 oil.
- 4. One five gallon can of two cycle mix, for chain saws.

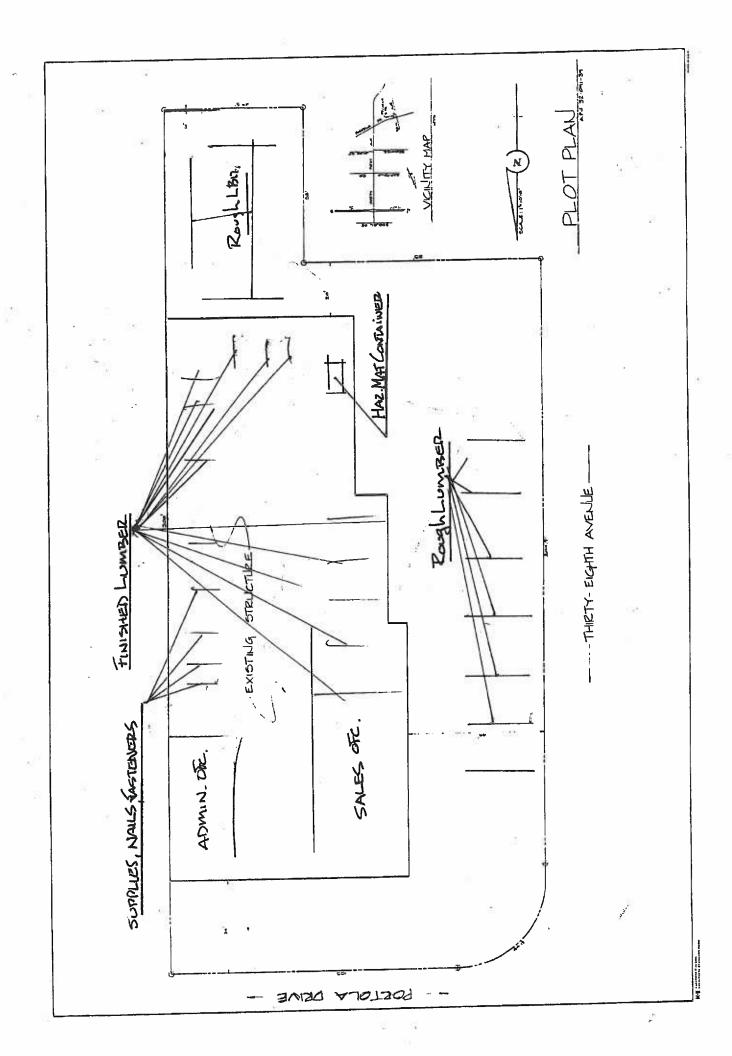
To our knowledge the property has historically never been used for anything but retail lumber sales.

No Phase I or Phase II investigations have been done.

If you have any questions or I can be of any further assistance please contact me at 831-476-6461.

Yours truly,

Ken DeFrees





May 21, 2014 RRM Project# IA710

Mr. Franklin Loffer
North Point Investments
PO Box 470577
San Francisco, California 94147

Re: Phase II Shallow Soil Gas and Groundwater Investigation 3800 Portola Drive Santa Cruz, California

Dear Mr. Loffer:

This letter report, prepared by Remediation Risk Management, Inc. (RRM), presents the results of a subsurface soil gas and groundwater investigation (Phase II) performed at the referenced property (Figure 1). The Phase II was carried out subsequent to completion of a Phase I Environmental Site Assessment (ESA) of the property that indicated the possibility that tetrachlorethylene (PCE) from one or more nearby sites had migrated into groundwater beneath the property. The Phase I ESA recommended conducting a limited subsurface investigation for a greater degree of certainty regarding the potential presence of PCE. As a due diligence condition for obtaining financing for redevelopment of the property, the lender has requested completion of a subsurface investigation. This report documents the field and laboratory methods used to collect and assess the recommended samples, the field and laboratory results, and our conclusions and recommendations.

Summarized below are a description of the property and its background, the scope of work performed, the field and laboratory results, and our conclusions and recommendations. Supporting documentation is attached.

PROPERTY DESCRIPTION, BACKGROUND, AND FUTURE DEVELOPMENT

The subject property is comprised of two parcels totaling approximately 35,370 square feet situated on the southeast corner of the intersection of Portola Drive with 38th Avenue, in the unincorporated Pleasure Point district of Santa Cruz, Santa Cruz County, California. It is improved with a single-story warehouse-style building with a footprint of approximately 7,875 square feet that was formerly used as a lumber retail business from the early 1950s until 2008. The building is situated in the northeast portion of the parcel (Figures 1 and 2). The building is currently vacant. Redevelopment plans for the property include removing the existing building and constructing a two-story mixed-use building with an approximate footprint of 9,500 square feet that will occupy the northwest portion of the parcel. A building comprised of private garages for the residences on the second floor of the main building will occupy the southeast corner of the

parcel. The remainder of the parcel will be paved for parking with limited areas of landscaping planned along the west and south property boundaries.

The purpose of the work described herein is to evaluate soil gas and groundwater conditions beneath the property related to potential contamination from PCE that has been detected in groundwater at nearby sites.

SCOPE OF WORK

Pre-Field

Prior to initiating field activities, RRM contacted Santa Cruz County Environmental Health Services (SCCEHS) to verify permit requirements for soil borings. SCCEHS reported that permits for soil borings were not required. Site safety procedures involved creating a site-specific health and safety plan identifying potential chemical and physical hazards that may be encountered during the course of field activities. Underground Service Alert (USA) was notified to clear the proposed boring areas prior to drilling. All RRM personnel and subcontractors involved in conducting the field activities were in compliance with requirements of the Federal Occupational Safety and Health Administration (OSHA) 40-Hour Hazardous Waste Operations and Emergency Response Training.

Groundwater Investigation

Three soil borings installed for the purpose of collecting samples from first-encountered groundwater were installed on the property on April 10, 2014 using a truck-mounted Geoprobe direct-push drill rig. Boring locations are indicated on Figure 2. Boreholes were continuously cored and logged to a total depth of approximately 18 feet below ground surface by an RRM field geologist. One ground water sample was collected from each boring and submitted to a State-certified laboratory for analysis. Upon completion of groundwater sampling at each boring location, the boreholes were backfilled with neat cement grout, and the top of each completed borehole was finished to match the surrounding area.

Soil Gas Investigation

As part of assessing potential impact of PCE at the property, two soil gas borings (SG-1 and SG-2) were advanced within the proposed footprint of the mixed-use building slated for construction. Soil gas sampling was conducted in accordance with guidelines provided in Appendix G of Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air¹. An RRM field geologist supervised installation of the borings, collected samples, and recorded field observations. The purpose of the assessment was to evaluate the potential threat of vapor intrusion posed by migration of PCE from nearby sites described in the Phase I ESA. Sample locations are shown on Figure 2.

Soil gas sampling was accomplished using temporary soil gas wells installed to approximately 5 feet bgs at sample locations SG-1 and SG-2. Wells were constructed within a single borehole advanced using

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). 2011. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air. October 2011.

2-inch diameter direct-push Geoprobe drilling equipment. Each well was constructed using a six-inch long well screen attached to 1/8-inch diameter Teflon tubing. Sand pack was placed in the annular space surrounding each well screen up to approximately six inches above each well screen. A bentonite seal was installed from the top of the sand pack to the bottom of the boring. Tube ends were fitted with brass fittings and end caps. Environmental Control Associates, Inc. (ECA) provided drilling services and well materials.

At the surface, tubing was connected to a sample manifold. The manifold was outfitted with stopcock valves, vacuum pressure gauges, a one-liter Summa sample canister, and six-liter Summa purge canister. Additionally, the sampling manifold was equipped with a flow regulator to restrict flow to less than 167 milliliters/minute. The Summa canisters were supplied with an internal vacuum pressure of approximately 29.5 inches of mercury (inHg). The sampling procedure entailed using the six-liter Summa canister to purge the sampling assembly of three volumes, after which, the one-liter Summa canister was used to sample the soil gas. Sample collection continued until the vacuum pressure in sample canisters reached between 1 inHg and 4 inHg. Sample times ranged between 10 minutes and 15 minutes. Data are included on field sheets provided in Attachment B.

During sampling, helium was used as a tracer to test for leaks. This was accomplished at each sample location by using a shroud to cover the sampling assembly, and injecting helium into the space enclosed by the shroud. During sampling, the concentration of helium within the shroud was measured using a field analyzer. All samples were transported to the laboratory in an insulated container at ambient temperature and analyzed within 72 hours of collection. After sampling, the drive rods were extracted and the holes were grouted to the surface with Portland cement.

Drilling, soil gas sampling, groundwater sampling, and laboratory analytical methods are included in Attachment A. Logs of the borings are included in Attachment B. Copies of the laboratory analytical reports are included in Attachment C.

RESULTS

Subsurface Conditions

Groundwater sampling boring SB-1 was installed in the northwest portion of the property parcel near the intersection of Portola Drive and 38th Avenue. At this location, subsurface soils encountered during drilling consisted of silty sands in the interval from just below the ground surface (bgs) to 4 feet bgs. Clayey sand was encountered in the interval between 8 and 10.5 feet bgs; from 10.5 to 11 feet bgs, soils consisted of clayey sand that graded into gravelly clayey sands to a depth of 18 feet bgs, the maximum depth explored. Dark, greenish grey staining was observed in the interval between 12 and 14 feet bgs; however, soils from this layer exhibited no odors, or any other field evidence (sheen, PID readings, etc.) of the presence of hydrocarbons or VOCs.

SB-2 was installed near the southwest portion of the parcel. At this location, subsurface soils encountered during drilling consisted of silty sands in the interval from just below the ground surface to 4 feet bgs. From 4 to 11 feet bgs, soils consisted of silty clays, sandy clays, and clayey sands. From approximately 11 feet to 18 feet bgs, the maximum depth explored, soils consisted of gravelly sands. Groundwater was

encountered at approximately 15 feet bgs. SB-3 was installed near the eastern border of the property parcel, approximately 80 feet to the south of Portola Drive. Soils encountered at this location were generally consistent with lithology observed in SB-1 and SB-2 to 18 feet bgs, the maximum depth explored. Groundwater was encountered at approximately 14.5 feet bgs in SB-3.

Laboratory Analysis

Groundwater samples were submitted to Accutest Laboratories, of Santa Clara, California, and analyzed for volatile organic compounds (VOCs) including PCE using U.S. Environmental Protection Agency (EPA) Method 8260B. Curtis & Tompkins, Ltd., a California State-certified laboratory, supplied the sampling equipment and analyzed the soil gas samples. Soil gas samples were analyzed for VOCs using U.S. EPA Modified Method TO-15. Summa[®] canisters were certified as clean by the laboratory in batches equivalent to 10 percent of the number of canisters processed during a single cleaning event.

Groundwater

For all the organic compounds tested, VOCs were not detected above laboratory detection limits in groundwater samples collected from all three borings, with the following exception: PCE was detected at 0.30 micrograms per liter (or parts per billion; ppb) in the groundwater sample from Boring SB-2. The laboratory reported this detection estimated: detected at the method detection limit, but below the reporting limit. An estimated concentration is a detection that is reported at the method detection limit, but below the reporting limit. The reporting limit is the lowest concentration standard in the calibration range of each compound analyzed. This value is also the low limit for unqualified quantitative data. The method detection limit is determined using experimentation and verified through additional testing. This value represents the lowest concentration of each compound that can be qualitatively identified by the method in use.

Soil Gas

The soil gas laboratory results were compared to risk characterization environmental screening levels (ESLs) published by the San Francisco Bay Regional Water Quality Control Board². The ESLs selected were for residential land use, where ground water is considered a drinking resource (most conservative scenario), and soil impacts were shallow. Although there were low concentrations of several compounds including PCE detected in soil gas samples, all analytical results were below applicable environmental screening levels, as shown on Table 1. Laboratory analytical reports for groundwater and soil gas are included in Attachment C.

² ESLs or environmental screening levels, refer to contaminate levels for specific compounds published in: "Screening For Environmental Concerns At Sites With Contaminated Soil And Groundwater", by the Regional Water Quality Control Board, San Francisco Bay region, February 2005, updated November 2007, revised May 2008, and most recently, December 2013.

CONCLUSIONS AND RECOMMENDATIONS

From the findings of this investigation, RRM concludes the following:

- A concentration of 0.30 ppb of PCE was detected in the groundwater sample from SB-2.
- VOCs were not detected above laboratory detection limits in the groundwater samples collected from SB-1, SB-2, and SB-3.
- Detections of PCE and other VOCs in property groundwater are below applicable screening levels and do not appear to pose an unacceptable exposure risk.
- Detections of PCE and other VOCs in property soil gas are below applicable screening levels and do not appear to pose an unacceptable exposure risk.
- All VOCs detected in soil gas and groundwater are consistent with known off site sources and plumes. The data does not indicate any current or historical release of contaminants occurred on the subject property.
- Additional sampling or mitigation measures are not necessary based on the existing data.

RRM recommends no additional soil or groundwater investigation for the property at this time.

Should you have any questions regarding the contents of this document, please do not hesitate to call RRM at (831) 475-8141.

Sincerely,

RRM. Inc.

Matthew Paulus, PG

Project Geologist

Cate Townsend

Geologist

Attachments: Table 1 - Soil Gas Analytical Data

Figure 1 – Site Location Map

Figure 2 – PCE Concentrations in Soil Gas and Grab Groundwater, April 10, 2014

Attachment A - Field and Analytical Procedures

Attachment B - Boring Logs and Field Notes

Attachment C - Certified Analytical Reports and Chain-of-Custody Documentation

cc:

Ms. Bonnie Frank Real Estate Law Group, LLP 2330 Marinship Way, Ste. 211 Sausalito, CA 94965

Mr. Scott Carson Santa Cruz County Environmental Health Services 701 Ocean St., Rm. 312 Santa Cruz, CA 95060

Ms. Alison Jones Central Coast RWQCB 895 Aerovista Place, Ste. 101 San Luis Obispo, CA 93402

Table 1 Analytical Results for Soil Gas Samples

3800 Portola Drive Santa Cruz, California

		Soil Gas Co	oncentration	Residential Screening Level
Compound	Units	SG-1	SG-2	ESL
1,3-Butadiene	g/m ³	6.3	<0.19	NA
Acetone	g/m ³	21	24	16,000,000
Carbon Disulfide	g/m ³	1.1	7.2	NA
n-Hexane	g/m ³	11	6.3	NA
1,1-Dichloroethane	g/m ³	1.1	<0.19	760
2-Butanone	g/m ³	2.7	2.7	NA
Ethyl Acetate	g/m³	4.3	<0.19	NA
Cyclohexane	g/m ³	9.0	5.6	NA
Benzene	g/m ³	8.1	3.2	42
n-Heptane	g/m³	9.3	2.2	NA NA
Toluene	g/m ³	180	45	160,000
Tetrachloroethene	g/m ³	<0.023	4.1	210
Ethylbenzene	g/m ³	3.1	<0.19	490
m,p-Xylenes	g/m³	19	2.2	52,000
o-Xylene	g/m ³	6.5	<0.19	52,000
1,2,4-Trimethylbenzene	g/m ³	1.3	<0.19	NA
Carbon Dioxide	g/m ³	39,000	41,000	NA
Oxygen	g/m³	79,000	92,000	NA
sample depth	feet bgs	5	5	822

Notes

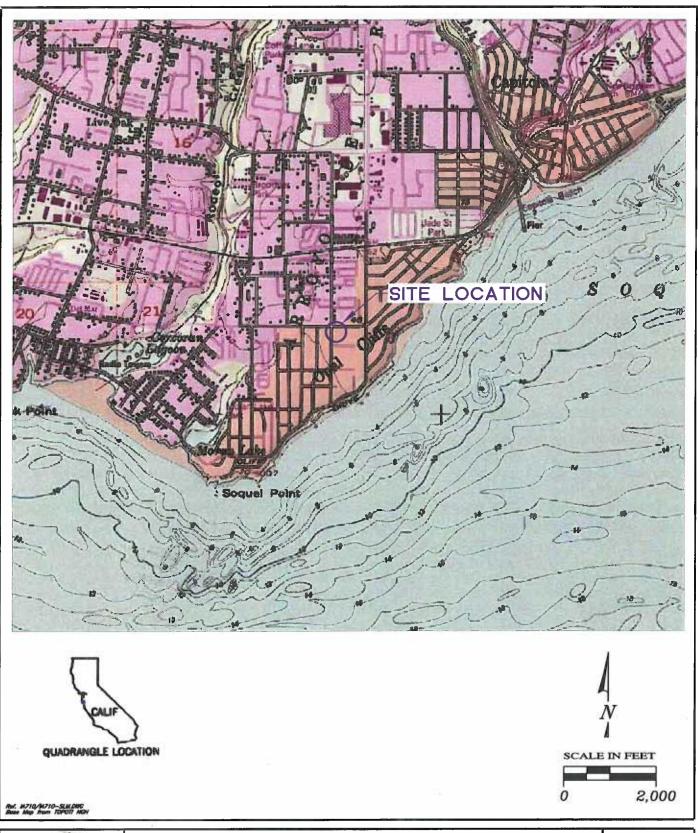
NA = not applicable / not available

ESL = San Francisco Bay Regional Water Quality Control Board, Environmental Screening

Level for Soil Gas (Vapor Intrusion Concerns), Summary Table E, updated December 2013

g/m³ = micrograms/cubic meter

<0.19 = less than the modified reporting limit or reporting limit shown





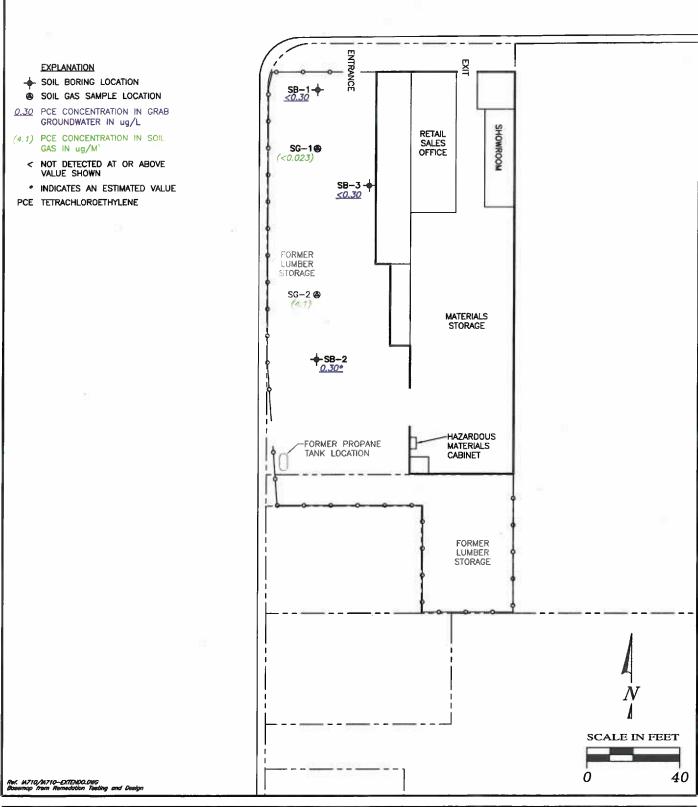
SITE LOCATION MAP

North Point Investments

3800 Portola Drive Santa Cruz, California FIGURE:

1

PROJECT:





PCE CONCENTRATIONS IN SOIL GAS AND GRAB GROUNDWATER, APRIL 10, 2014

North Point Investments

3800 Portola Drive Santa Cruz, California FIGURE:

PROJECT: IA710



FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A FIELD AND LABORATORY PROCEDURES

SOIL BORING PROCEDURES

The soil borings were advanced using a 2-inch diameter pneumatically driven GeoProbe drilling system. During advancement, the borings were logged for lithologic description by a RRM, Inc. geologist using the Unified Soil Classification System and standard geologic techniques. The borings were advanced to a maximum depth of approximately 18 feet below ground surface (bgs). Groundwater samples were collected by using clean Teflon tubing attached to a peristaltic pump. All downhole drilling and sampling equipment was cleaned between borings. Samples were placed on ice for transport to a state-certified laboratory, accompanied by a chain-of-custody documentation. Upon completion of groundwater sampling activities, the borings were backfilled with cement grout.

SOIL GAS SAMPLING PROCEDURES

Soil gas sampling was accomplished using temporary soil gas wells installed to approximately 5 feet bgs. Wells were constructed within a single borehole advanced using 2-inch diameter direct-push Geoprobe drilling equipment. Each well was constructed using a six-inch long well screen attached to 1/8-inch diameter Teflon tubing. Sand pack was placed in the annular space surrounding each well screen up to approximately six inches above each well screen. A bentonite seal was installed from the top of the sand pack to the bottom of the boring. Tube ends were fitted with brass fittings and end caps.

At the surface, tubing was connected to a sample manifold. The manifold was outfitted with stopcock valves, vacuum pressure gauges, a one-liter Summa sample canister, and six-liter Summa purge canister. Additionally, the sampling manifold was equipped with a flow regulator to restrict flow to less than 167 milliliters/minute. The Summa canisters were supplied with an internal vacuum pressure of approximately 29.5 inches of mercury (inHg). The sampling procedure entailed using the six-liter Summa canister to purge the sampling assembly of three volumes, after which, the one-liter Summa canister was used to sample the soil gas. Sample collection continued until the vacuum pressure in sample canisters reached between 1 inHg and 4 inHg. Sample times ranged between 10 minutes and 15 minutes.

During sampling, helium was used as a tracer to test for leaks. This was accomplished at each sample location by using a shroud to cover the sampling assembly, and injecting helium into the space enclosed by the shroud. During sampling, the concentration of helium within the shroud was measured using a field analyzer. All samples were transported to the laboratory in an insulated container at ambient temperature and analyzed within 72 hours of collection. After sampling, the drive rods were extracted and the holes were grouted to the surface with Portland cement.

LABORATORY ANALYTICAL PROCEDURES

Groundwater samples were submitted to Accutest Laboratories, of Santa Clara, California, and analyzed for volatile organic compounds (VOCs) including PCE using U.S. Environmental Protection Agency (EPA) Method 8260B. Curtis & Tompkins, Ltd., a California State-certified laboratory, supplied the sampling equipment and analyzed the soil gas samples. Soil gas samples were analyzed for VOCs using U.S. EPA Modified Method TO-15. Summa[®] canisters were certified as clean by the laboratory in batches equivalent to 10 percent of the number of canisters processed during a single cleaning event.

B

BORING LOGS AND FIELD NOTES



2560 SOQUEL AVENUE, SUITE 202 SANTA CRUZ, CALIFORNIA 95062

TEL: 831.475.8141 FAX: 831.475.8249 FIELD DATA SHEET

Client:	Project #: 1A 710
Job Address: 3800 PORTOLA DRIVE	Date: 4/10/14
Weather Conditions:	Field Tech: WIUS
Equipment on site: R & GEOPROBE	Page: of_
Arrival Time: 0730	
Departure Time: 1500	
FIELD NOTES:	
PREP FOR WORK	
	FUR LOPEK
HEALTH & SAFETY	1 Di Diseppe
UEMO BEGIN SB-	
0935 50-1 COMPLETE	
0945 BGGIN 5G-1	
16:26 SG-1 COMPLETE	
1057 56-2 COMPLETA	-
1240 58-2 COMPLETE	
1330, SB-3 COMPLETE	7%
USE HE SMROUD TO TAK	E & SOIL GAS
SAMPLES AT 56-1 & 56-2	
GROUT SG BORINGS	
LOCK UP	
CLEAN UP	
LEAVE	
	11
Signatu	re:////
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DRIVE RRM Job #: 1A 710
Site Location: 3 820 PORTOLA
Personnel: WELLS

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150 ml = 760ml => 7 MIN = 5, 71

CONF SYN

58-1 10F7

WELL/BORING LOCATION MAP	Remediation Risk Management, Inc. WELL/BORING:
-N- 518-1 0	DATE: 4/10/114 DRILLING METHOD
	PROJECT: LA 710 SALEMONETHOD: GEOPROBE
	CLIENT: SAMPLING METHOD: CONTIAUUS
1 1 1 1	LOCATION "SO BORING DIAMETER: 7"
1 / / /	CITY
1 1 1 1	WELL CARING
1 3 1 1	CO.ISTATE: SAUTA CRUZ CA WELL SCREEN.
Mary Mary Mary Mary Mary Mary Mary Mary	DRILLER: FR.
	SAND PACK: NA
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	AND CONTRACTOR DATE:
	DESCRIPTIONLOGGED BY:
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	721/001
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	BARK GREYISH BROWN (10 YR 3/2)
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	S-15 % TWO TO MED SAND
	A Land Land
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	CIDYR STATE RROWN
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	DAMP: NPO SAND; MED DENSE;
	- 8 -
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	10 S-10 % LEW PLANT ECT DEALEST
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	YELLOW (10 YR 5/4): BROWNESH
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	15-X SP 8-10,5' CLAVE'S SANDI DAK
 	YELLWISH BROWN (10 YR "4/4):
 	16 TO 90 % FINE TO MALD SAND
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WELL/BORING LOCATION MAP Remediation Risk Management, Inc. WELL/BORING: SG - 1 **%** DATE: 4/10/14 DRILLING METHOD: 1 G COPROBE PROJECT: 1A 7/0 SAMPLING METHOD: CLIENT: BORING DIAMETER: LOCATION: 3 800 PORTOLA BORING DEPTH: CITY: SANTA WELL CASING: V 4" OD TEFLEN TUBE CRUZ CO./STATE: WELL SCREEN: 1" CREMATE DRILLER: ECA SAND PACK: DENSITY BLOWS / FT FIELD TEST PID (ppm) MOISTURE RECOVERY SAMPLE INTERNAL STABILIZED SAMPLE WATER LEVEL: GRAPHIC FIRST DEPTH (FEET) WELL/BORING TIME: COMPLETION DATE: DESCRIPTION/LOGGED BY: SCURPY 0-21 566 50-1 YELLOW ISH 90-95% BLACK DENSE! NON 5

BENTONETE

VVELL/BUF	RING LOCATION MAP	Remediation Risk i	Wanagement, Inc. WELL/BORING: 56
<u>}</u> \{		DATE: Y/10/14	DRILLING METHOD: GEO NO DE
ı		PROJECT: LAZIO	SAMPLING METHOD: MA
ı			BORING DIAMETER: 27
1		LOCATION: 300 PORT	OLA BORING DEPTH: CS
		CO./STATE: SC CA	
			WELL SCREEN: 14 A CO JAMES
	I Jul ETE		SAND PACK:
WELL/BORING	M STANLZED MOISTURE DENSITY BLOWS / FT FIELD TEST PID (ppm)	SAMPLE NUMBER DEPTH (FEET) RECOVER) SWIFLE MITERAN GRAPHIC UBCS SWIEL	WATER LEVEL:
COMPLETION	RIST SNS (C) C)	SAMPLE NUMBER DEPTH (FEET) RECOVER SAMPLE PITERAM GRAPHIC UBCS STAMBOL	IME:
	조존용 교명 등로	S. N. C. D. C.	DATE:
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WELL/BORING LOCATION MAP	Remediation Risk Management, Inc. DATE: 4/10/17 DRULLING METUDE: 53-7
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1 1	SAMPLING METUOD.
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0 58-5	DRILLER: ECA SAND PACK:
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MOISTURE DENSITY BLOWS / FT FIELD TEST PID (Born)	SAMPLE NUMBER NUMBER DEPTH (FEET) OS 11 SAMPLE NUMBER NUM
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WELL/BORING LOCATION MAP Remediation Risk Management, Inc. WELL/BORING: SB.7 DATE: 4/ 10/14 DRILLING METHOD: BEO PROBE PROJECT: 14 710 SAMPLING METHOD: 256+1 CLIENT: BORING DIAMETER: 2/ 0188-3 LOCATION: 3800 PORTOLA BORING DEPTH: CITY: SANTA CRUZ 56 WELL CASING: CO./STATE: 50+ SC WELL SCREEN: DRILLER: CA SAND PACK: NA MOISTURE DENSITY BLOWS / FT FIELD TEST PID (ppm) SAMPLE RECOVERY NTBRA GRAPHIC WATER LEVEL: 14,52 DEPTH (FEET) FIRST WELL/BORING TIME: COMPLETION SAMPLE DATE 又室 DESCRIPTIONLOGGED BY: MILLS ₹ EE 3 图 2.54R.4/ 3 10 MED SAND! ® | U, D 6 ABOVE SORTED MED DROWN 100 MED 8 Low 1 RAST JEET FINES: L0056 MOSSIT WPU AS ABOVE 0 0,0 13014 GRAVELLY SAND STRONG BROWN (3.5 YR. \$ 05-03 CORRIE SAND TO FIM GRAVEL ; LOUSE 13 ABOVE 9.0 FROM 17,5 18 MOISTURE To INDEASES FROM DAMP TO 15 WET 16 BOB (9) 181 0,0 18

C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



04/17/14





Technical Report for

Remediation Risk Management

3800 Partola Dr. Santa Cruz CA

1A710

Accutest Job Number: C33475

Sampling Date: 04/10/14

Report to:

RRM

2560 Soquel Ave. Santa Cruz, CA 95062

labdata@rrmsc.com; cate@rrmsc.com

ATTN: Cate Townsend

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy Lab Director

Client Service contact: Tony Vega 408-588-0200

Certifications: OR (CA300006) CA (08258CA) AZ (AZ0762) DoD ELAP (L-A-B L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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Section 3: Sample Results	
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3.2: C33475-2: SB-2	9
3.3: C33475-3: SB-3	12
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5 3. Matrix Snike/Matrix Snike Dunlicate Summary	









Sample Summary

Remediation Risk Management

Job No:

C33475

3800 Partola Dr. Santa Cruz CA Project No: 1A710

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID	
C33475-1	04/10/14	09:30 WS	04/11/14	AQ	Ground Water	SB-1	
C33475-2	04/10/14	12:00 WS	04/11/14	AQ	Ground Water	SB-2	
C33475-3	04/10/14	13:30 WS	04/11/14	AO	Ground Water	SB-3	



Page 1 of 1

Project:

Summary of Hits
Job Number: C33475
Account: Remediation Risk Management 3800 Partola Dr. Santa Cruz CA

Collected:

04/10/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C33475-1	SB-1			-		
No hits reported	in this sample.					
C33475-2	SB-2					
Tetrachloroethyle	ene	0.30 J	1.0	0.30	ug/l	SW846 8260B

C33475-3

SB-3

No hits reported in this sample.



Sample Results	
Report of Analysis	



Client Sample ID: SB-1

Lab Sample ID: Matrix:

C33475-1

AQ - Ground Water SW846 8260B

Date Sampled: 04/10/14 Date Received: 04/11/14

Method: Project:

3800 Partola Dr. Santa Cruz CA

Percent Solids: n/a

File ID Prep Batch **Analytical Batch** DF Analyzed Ву Prep Date Run #1 Q20677.D 1 04/15/14 RD n/a n/a VQ854

Run #2

Purge Volume

Run #1 10.0 ml

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

 $B \,=\, Indicates \,\, analyte \,\, found \,\, in \,\, associated \,\, method \,\, blank$

E = Indicates value exceeds calibration range



Report of Analysis

Page 2 of 3

Client Sample ID: SB-1 Lab Sample ID: C33475-1

Matrix:

Method:

Project:

AQ - Ground Water

SW846 8260B

3800 Partola Dr. Santa Cruz CA

Date Sampled: 04/10/14
Date Received: 04/11/14

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	107%		70-13	30 %	
2037-26-5	Toluene-D8	93%		70-13		

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

 $B \,=\, Indicates \ analyte \ found \ in \ associated \ method \ blank$

E = Indicates value exceeds calibration range



Accutest Laboratories

Report of Analysis

Page 3 of 3

Client Sample ID: SB-1

Lab Sample ID: Matrix:

C33475-1

AQ - Ground Water

Date Received: 04/11/14

Date Sampled: 04/10/14

Method: Project:

SW846 8260B 3800 Partola Dr. Santa Cruz CA Percent Solids: n/a

VOA 8260 List

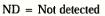
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

460-00-4

4-Bromofluorobenzene

97%

70-130%



MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B \,=\, Indicates \,\, analyte \,\, found \,\, in \,\, associated \,\, method \,\, blank$



Report of Analysis

Ву

RD

Page 1 of 3

Client Sample ID: SB-2 Lab Sample ID: C33475-2

Matrix:

AQ - Ground Water

DF

1

Date Received: 04/11/14

Date Sampled: 04/10/14

Method:

SW846 8260B

Percent Solids: n/a

Project:

3800 Partola Dr. Santa Cruz CA

Analyzed

04/15/14

Prep Date Prep Batch

n/a

Analytical Batch

n/a

VQ854

Run #1 Run #2

Purge Volume

Run #1

10.0 ml

File ID

Q20678.D

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

 $ND \,=\, Not\; detected$

 $MDL \,=\, Method\,\, Detection\,\, Limit$

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

 $N \, = \, \text{Indicates presumptive evidence of a compound}$





Client Sample ID: SB-2

Lab Sample ID: C33475-2

Matrix: AQ -

Method:

AQ - Ground Water SW846 8260B

Project:

3800 Partola Dr. Santa Cruz CA

Date Sampled: 04/10/14 Date Received: 04/11/14

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.30	1.0	0.30	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	:8	
1868-53-7	Dibromofluoromethane	108%		70-13		
2037-26-5	Toluene-D8	97%		70-13	0%	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range



Accutest Laboratories

Report of Analysis

Page 3 of 3

Client Sample ID: SB-2

Lab Sample ID: C33475-2

Matrix:

AQ - Ground Water SW846 8260B

Date Sampled: 04/10/14 Date Received: 04/11/14

Percent Solids: n/a

Method: Project:

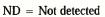
3800 Partola Dr. Santa Cruz CA

VOA 8260 List

CAS No. Surrogate Recoveries Run#1 Run#2 Limits

460-00-4 4-Bromofluorobenzene 96%

70-130%



MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = Indicates \ analyte \ found \ in \ associated \ method \ blank$



Client Sample ID: SB-3

Lab Sample ID: Matrix:

C33475-3

AQ - Ground Water SW846 8260B

Date Sampled: 04/10/14 Date Received: 04/11/14

Method: Project:

3800 Partola Dr. Santa Cruz CA

Percent Solids: n/a

Run #1

File ID Q20679.D DF 1

By Analyzed 04/15/14 RD Prep Date n/a

n/a

Analytical Batch Prep Batch

VQ854

Run #2

Purge Volume

Run #1

10.0 ml

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range



Date Sampled: 04/10/14

Date Received: 04/11/14



Client Sample ID: SB-3 Lab Sample ID: C33475-3

Matrix: A

AQ - Ground Water SW846 8260B

DB Percent Solids: n/a

3800 Partola Dr. Santa Cruz CA

VOA 8260 List

Method:

Project:

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	110%		70-130%		
2037-26-5	Toluene-D8	94%		70-1	30%	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

 $B \,=\, Indicates \ analyte \ found \ in \ associated \ method \ blank$

E = Indicates value exceeds calibration range



Accutest Laboratories

Report of Analysis

Page 3 of 3



Client Sample ID: SB-3

Lab Sample ID: Matrix:

C33475-3

AQ - Ground Water SW846 8260B

Date Received: 04/11/14

Date Sampled: 04/10/14

Method: Project:

3800 Partola Dr. Santa Cruz CA

Percent Solids: n/a

VOA 8260 List

CAS No. Surrogate Recoveries Run#1 Run#2 Limits

460-00-4 4-Bromofluorobenzene 95% 70-130%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

 $B \,=\, Indicates \,\, analyte \,\, found \,\, in \,\, associated \,\, method \,\, blank$

E = Indicates value exceeds calibration range







Misc.	Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



			CHA	AIN	OF	: C	:U:	STO	OD'	Y										
	ے سر	<u> </u>	210	5 Lundy		an Jos	e, CA	9513	31		FEO-E	X Tracking	,			Sollie Orde	r Control #		(6	
ACCUT) 588-D2	00	FAX: (408)	588-02	201		Accute	est Quole s			-	Accutes	NC Job	1:0 C	331	175
LABUR Client / Reporting Information	ATOF	HES		olect infe	nematic.	-							TO SA	SHE	111.7	100				
Company Name RRM		Project		olect mis	ormatio	ภ		_			+-	т-		+	Reque	sted Anal	ysis	+ -	A	Matrix Codes WW- Wastswater
	1/ -	1 -									J &	3				1		1 1		GW- Ground Water
City State	16 ZID	City	<u>800</u>	P	act	01	(1)	DY	-		100			İ						SW- Surface Water SO- So4
Address 2560 SORUEC A City SANTA CRUZ CA Project Contact: CATE TOWNSRN:	9506Z	S	80c	ia (<u>`YU</u>	2	٥	4			10						1			OLO.1 WP-Wiga
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Samplers's Name Wills				er#] 0	1						1		DVV- Drinking Water (Perchiorate Only)
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C33475: Chain of Custody Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C33	3475	Client: RRM		Project: 3800 PORTOL	A DR		
Date / Time Received: 4/11	1/2014	Delivery	Method: A	ccutest Courier Airbill #'s:			
Cooler Temps (Initial/Adjusto	ed): #1: (4.	6/4.6);					
Cooler Security Y	or N		Y or N	Sample Integrity - Documentation	Υ	or N	
Custody Seals Present:	Z	3. COC Present:		Sample labels present on bottles:	~	П	
2. Custody Seals Intact:		4. Smpl Dates/Time OK	V	2. Container labeling complete:	~	13	
cooler Temperature	Y or	<u>N_</u>		3. Sample container label / COC agree:	~		
Temp criteria achieved:				Sample Integrity - Condition	Υ	or N	
Cooler temp verification:	IR1;			Sample recvd within HT:	~		
3. Cooler media:	Ice (B	ag)		2. All containers accounted for:	~	E18	
4. No. Coolers:	1			3. Condition of sample:	1000	ntact	
uality Control Preservation	Y or	N N/A		Sample Integrity - Instructions	Υ	or N	N/A
Trip Blank present / cooler:	101			Analysis requested is clear:	<u>-</u>	E	
2. Trip Blank listed on COC:		2		2. Bottles received for unspecified tests	Œ	V	
3. Samples preserved properly:	V			Sufficient volume recvd for analysis:			
4. VOCs headspace free:	V	0 0		Compositing instructions clear:			4
				5. Filtering instructions clear:	0	(3)	1
Comments							
Accutest Laboratories V:408,588.0200				undy Avenue 8.588.0201			San Jose, CA 951

C33475: Chain of Custody

Page 2 of 2





- Method Blank Summaries
- Blank Spike SummariesMatrix Spike and Duplicate Summaries

Page 1 of 3

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

Sample VQ854-MB	File ID Q20671.D	DF 1	Analyzed 04/15/14	By RD	Prep Date n/a	Prep Batch	Analytical Batch VQ854

The QC reported here applies to the following samples:

Method: SW846 8260B

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	ND	20	4.0	ug/l
71-43-2	Benzene	ND	1.0	0.20	ug/l
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l
75-25-2	Bromoform	ND	1.0	0.22	ug/l
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l
75-00-3	Chloroethane	ND	1.0	0.20	ug/l
67-66-3	Chloroform	ND	1.0	0.20	ug/l
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l



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Job Number: C33475

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

Sample VQ854-MB	File ID Q20671.D	DF 1	Analyzed 04/15/14	By RD	Prep Date n/a	Prep Batch n/a	Analytical Batch VQ854

The QC reported here applies to the following samples:

Method: SW846 8260B

C33475-1, C33475-2, C33475-3

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/I	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l)(0
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No. Surrogate Recoveries Limits

1868-53-7 Dibromofluoromethane

104% 70-130%



Method Blank Summary

Job Number: C33475

Account: RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

Sample	File ID	DF	Analyzed 04/15/14	By	Prep Date	Prep Batch	Analytical Batch
VQ854-MB	Q20671.D	1		RD	n/a	n/a	VQ854

The QC reported here applies to the following samples:

Method: SW846 8260B

C33475-1, C33475-2, C33475-3

CAS No. Limits Surrogate Recoveries 2037-26-5 Toluene-D8 105% 70-130% 4-Bromofluorobenzene 460-00-4 98% 70-130%



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Method: SW846 8260B

Blank Spike/Blank Spike Duplicate Summary Job Number: C33475

Account: RRMCASC Remediation Risk Management

Project: 3800 Partola Dr. Santa Cruz CA

Sample VQ854-BS VQ854-BSD	File ID Q20666.D Q20667.D	DF 1	Analyzed 04/15/14 04/15/14	By RD RD	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch VQ854 VQ854
					12		

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
01101101	· ·	g/ 1	ug.	/•	46/1	70	IG D	ROURID
67-64-1	Acetone	80	71.7	90	67.8	85	6	38-159/24
71-43-2	Benzene	20	17.1	86	16.8	84	2	77-122/25
108-86-1	Bromobenzene	20	17.9	90	17.6	88	2	76-126/17
74-97-5	Bromochloromethane	20	17.8	89	17.4	87	2	77-130/17
75-27-4	Bromodichloromethane	20	17.2	86	16.7	84	3	75-127/16
75-25-2	Bromoform	20	17.7	89	17.2	86	3	69-141/17
104-51-8	n-Butylbenzene	20	17.5	88	17.2	86	2	72-129/18
135-98-8	sec-Butylbenzene	20	19.0	95	18.6	93	2	74-128/18
98-06-6	tert-Butylbenzene	20	17.4	87	17.1	86	2	73-127/18
108-90-7	Chlorobenzene	20	18.0	90	17.7	89	2	77-122/16
75-00-3	Chloroethane	20	17.5	88	17.7	89	1	69-133/18
67-66-3	Chloroform	20	17.4	87	17.2	86	1	74-126/17
95-49-8	o-Chlorotoluene	20	19.0	95	18.7	94	2	72-127/20
106-43-4	p-Chlorotoluene	20	18.0	90	17.9	90	1	68-127/18
56-23-5	Carbon tetrachloride	20	16.4	82	15.8	79	4	71-133/19
75-34-3	1,1-Dichloroethane	20	16.4	82	16.3	82	1	71-125/17
75-35-4	1,1-Dichloroethylene	20	14.6	73	14.4	72	1	66-125/20
563-58-6	1,1-Dichloropropene	20	17.5	88	17.1	86	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	17.6	88	16.8	84	5	65-131/20
106-93-4	1,2-Dibromoethane	20	18.4	92	17.9	90	3	75-135/17
107-06-2	1,2-Dichloroethane	20	17.1	86	16.6	83	3	71-131/17
78-87-5	1,2-Dichloropropane	20	17.6	88	17.4	87	1	78-124/16
142-28-9	1,3-Dichloropropane	20	17.7	89	17.2	86	3	78-123/16
108-20-3	Di-Isopropyl ether	20	17.8	89	17.7	89	1	68-129/17
594-20-7	2,2-Dichloropropane	20	16.6	83	15.9	80	4	70-131/19
124-48-1	Dibromochloromethane	20	18.6	93	18.0	90	3	76-132/16
75-71-8	Dichlorodifluoromethane	20	14.4	72	14.5	73	1	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	17.5	88	17.5	88	0	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	19.3	97	19.1	96	1	72-130/16
541-73-1	m-Dichlorobenzene	20	18.2	91	17.7	89	3	75-124/16
95-50-1	o-Dichlorobenzene	20	18.0	90	17.7	89	2	76-124/16
106-46-7	p-Dichlorobenzene	20	17.1	86	16.8	84	2	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	16.5	83	16.3	82	1	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	18.3	92	17.9	90	2	71-126/16
100-41-4	Ethylbenzene	20	17.9	90	17.6	88	2	76-126/17
637-92-3	Ethyl Tert Butyl Ether	20	19.7	99	19.4	97	2	75-134/17

^{* =} Outside of Control Limits.

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Method: SW846 8260B

Blank Spike/Blank Spike Duplicate Summary Job Number: C33475

RRMCASC Remediation Risk Management Account:

Project: 3800 Partola Dr. Santa Cruz CA

Sample VQ854-BS VQ854-BSD	File ID Q20666.D Q20667.D	DF 1	Analyzed 04/15/14 04/15/14	By RD RD	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch VQ854 VQ854

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	74.4	93	71.2	89	4	67-150/22
87-68-3	Hexachlorobutadiene	20	16.0	80	15.8	79	1	69-135/20
98-82-8	Isopropylbenzene	20	19.1	96	18.8	94	2	61-125/17
99-87-6	p-Isopropyltoluene	20	16.6	83	16.4	82	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	69.9	87	66.7	83	5	71-142/21
74-83-9	Methyl bromide	20	15.8	79	15.8	79	0	68-132/18
74-83-9 74-87-3	Methyl chloride	20	16.4	82	16.5	83		39-150/28
74-67-3 74-95-3	Methylene bromide	20	18.0	90	17.4	87	1	77-127/16
74-93-3 75-09-2	Methylene chloride	20			15.8	79	3	
73-09-2 78-93-3		20 80	16.0	80		91	1	67-128/18
1634-04-4	Methyl ethyl ketone	20	75.6 18.8	95 94	73.1 18.6	93	3	56-155/23
91-20-3	Methyl Tert Butyl Ether		18.0				1	73-132/17
103-65-1	Naphthalene n-Propylbenzene	20 20		90	17.5	88	3	70-136/20
	10		18.7	94	18.5	93	1	71-127/17
100-42-5	Styrene Tout A mod Mathed Ethan	20	17.1	86	16.9	85	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	20	19.2	96	19.0	95	1	73-133/17
75-65-0	Tert-Butyl Alcohol	100	82.4	82	76.9	77	7	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	20	18.1	91	17.8	89	2	77-130/16
71-55-6	1,1,1-Trichloroethane	20	16.4	82	16.2	81	1	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	17.6	88	17.1	86	3	77-129/17
79-00-5	1,1,2-Trichloroethane	20	17.8	89	17.5	88	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	17.1	86	16.7	84	2	70-133/18
96-18-4	1,2,3-Trichloropropane	20	18.0	90	17.4	87	3	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	17.1	86	16.6	83	3	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	18.5	93	18.2	91	2	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	17.5	88	17.1	86	2	77-129/17
127-18-4	Tetrachloroethylene	20	16.8	84	16.5	83	2	69-127/20
108-88-3	Toluene	20	17.8	89	17.6	88	1	75-122/17
79-01-6	Trichloroethylene	20	16.6	83	16.3	82	2	78-123/17
75-69-4	Trichlorofluoromethane	20	17.9	90	17.7	89	1	65-136/23
75-01-4	Vinyl chloride	20	17.6	88	17.8	89	1	57-146/22
1330-20-7	Xylene (total)	60	56.0	93	55.1	92	2	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	70-130%

^{* =} Outside of Control Limits.

Datab

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Blank Spike/Blank Spike Duplicate Summary Job Number: C33475

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

			Prep Date	Prep Batch	Analytical Batch
0666.D 1	04/15/14	RD	n/a ¯	n/a	VQ854
)667.D 1	04/15/14	RD	n/a	n/a	VQ854
					0.7 5

The QC reported here applies to the following samples:

Method: SW846 8260B

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	104%	105%	70-130%
460-00-4	4-Bromofluorobenzene	105%	105%	70-130%

^{* =} Outside of Control Limits.

Method: SW846 8260B

Matrix Spike/Matrix Spike Duplicate Summary Job Number: C33475

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

Sample	File ID	DF	Analyzed 04/15/14 04/15/14	By	Prep Date	Prep Batch	Analytical Batch
C33286-2MS	Q20684.D	20		RD	n/a	n/a	VQ854
C33286-2MSD	Q20685.D	20		RD	n/a	n/a	VQ854
C33286-2 a	Q20683.D	20	04/15/14	RD	n/a	n/a	VQ854

The QC reported here applies to the following samples:

		C33286-2		C33286-2		Spike	MS	MS	MSD	MSD		Limits
CAS No.	Compound	ug/l	Q	ug/l	ug/l	%	ug/l	%	RPD	Rec/RPD		
67-64-1	Acetone	ND		1600	1720	108	1620	101	6	38-159/24		
71-43-2	Benzene	ND		400	421	105	415	104	1	77-122/16		
108-86-1	Bromobenzene	ND		400	428	107	430	108	0	76-126/17		
74-97-5	Bromochloromethane	ND		400	445	111	404	101	10	77-130/17		
75-27-4	Bromodichloromethane	ND		400	421	105	399	100	5	75-127/16		
75-25-2	Bromoform	ND		400	389	97	379	95	3	69-141/17		
104-51-8	n-Butylbenzene	ND		400	417	104	430	108	3	72-129/18		
135-98-8	sec-Butylbenzene	ND		400	453	113	474	119	5	74-128/18		
98-06-6	tert-Butylbenzene	ND		400	418	105	430	108	3	73-127/18		
108-90-7	Chlorobenzene	ND		400	434	109	429	107	1	77-122/16		
75-00-3	Chloroethane	ND		400	368	92	357	89	3	69-133/18		
67-66-3	Chloroform	ND		400	441	110	408	102	8	74-126/17		
95-49-8	o-Chlorotoluene	ND		400	455	114	458	115	1	72-127/20		
106-43-4	p-Chlorotoluene	ND		400	434	109	439 •	110	1	68-127/18		
56-23-5	Carbon tetrachloride	ND		400	434	109	437	109	1	71-133/19		
75-34-3	1,1-Dichloroethane	ND		400	410	103	390	98	5	71-125/17		
75-35-4	1,1-Dichloroethylene	ND		400	390	98	386	97	1	66-125/20		
563-58-6	1,1-Dichloropropene	ND		400	448	112	458	115	2	75-124/18		
96-12-8	1,2-Dibromo-3-chloropropane	ND		400	431	108	445	111	3	65-131/20		
106-93-4	1,2-Dibromoethane	ND		400	438	110	435	109	1	75-135/17		
107-06-2	1,2-Dichloroethane	ND		400	437	109	409	102	7	71-131/17		
78-87-5	1,2-Dichloropropane	ND		400	428	107	419	105	2	78-124/16		
142-28-9	1,3-Dichloropropane	ND		400	419	105	412	103	2	78-123/16		
108-20-3	Di-Isopropyl ether	ND		400	426	107	401	100	6	68-129/17		
594-20-7	2,2-Dichloropropane	ND		400	383	96	361	90	6	70-131/19		
124-48-1	Dibromochloromethane	ND		400	429	107	417	104	3	76-132/16		
75-71-8	Dichlorodifluoromethane	ND		400	334	84	313	78	6	32-168/28		
156-59-2	cis-1,2-Dichloroethylene	ND		400	435	109	406	102	7	73-126/17		
	cis-1,3-Dichloropropene	ND		400	458	115	439	110	4	72-130/16		
541-73-1	m-Dichlorobenzene	ND		400	437	109	436	109	0	75-124/16		
95-50-1	o-Dichlorobenzene	ND		400	439	110	436	109	1	76-124/16		
106-46-7	p-Dichlorobenzene	ND		400	417	104	414	104	1	75-124/16		
156-60-5	trans-1,2-Dichloroethylene	ND		400	420	105	402	101	4	71-126/18		
	trans-1,3-Dichloropropene	ND		400	430	108	419	105	3	71-126/16		
100-41-4	Ethylbenzene	ND		400	434	109	435	109	Ö	76-126/17		
637-92-3	Ethyl Tert Butyl Ether	ND		400	477	119	445	111	7	75-134/17		
23. 02.0		. 12		.00	.,,	110	110	***		10 10 1/11		

^{* =} Outside of Control Limits.



Method: SW846 8260B

Matrix Spike/Matrix Spike Duplicate Summary Job Number: C33475

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

C55250-2 Q25065.D 20 04/15/14 ND 11/4 11/4 VQ654	Sample C33286-2MS C33286-2MSD C33286-2 ^a	File ID Q20684.D Q20685.D Q20683.D	DF 20 20 20	Analyzed 04/15/14 04/15/14 04/15/14	By RD RD RD	Prep Date n/a n/a n/a	Prep Batch n/a n/a n/a	Analytical Batch VQ854 VQ854 VQ854
--	--	---	--------------------	-------------------------------------	----------------------	--------------------------------	---------------------------------	---

The QC reported here applies to the following samples:

		C3328	6-2	Spike	MS	MS	MSD	MSD		Limits
CAS No.	Compound	ug/l	Q	ug/l	ug/l	%	ug/l	%	RPD	Rec/RPD
591-78-6	2-Hexanone	ND		1600	1650	103	1670	104	1	67-150/22
87-68-3	Hexachlorobutadiene	ND		400	384	96	398	100	4	69-135/20
98-82-8	Isopropylbenzene	ND		400	464	116	469	117	1 .	61-125/17
99-87-6	p-Isopropyltoluene	ND		400	396	99	407	102	3	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		1600	1550	97	1540	96	1	71-142/21
74-83-9	Methyl bromide	ND		400	336	84	317	79	6	68-132/18
74-87-3	Methyl chloride	ND		400	358	90	335	84	7	39-150/28
74-95-3	Methylene bromide	ND		400	446	112	423	106	5	77-127/16
75-09-2	Methylene chloride	ND		400	403	101	376	94	7	67-128/18
78-93-3	Methyl ethyl ketone	ND		1600	1730	108	1650	103	5	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		400	460	115	429	107	7	73-132/17
91-20-3	Naphthalene	ND		400	432	108	438	110	1	70-136/20
103-65-1	n-Propylbenzene	ND		400	446	112	460	115	3	71-127/17
100-42-5	Styrene	ND		400	398	100	387	97	3	72-134/16
994-05-8	Tert-Amyl Methyl Ether	ND		400	466	117	434	109	7	73-133/17
75-65-0	Tert-Butyl Alcohol	ND		2000	2050	103	1940	97	6	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		400	441	110	432	108	2	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		400	431	108	411	103	5	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	420	105	426	107	1	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		400	424	106	414	104	2	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		400	408	102	410	103	0	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		400	414	104	409	102	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		400	406	102	409	102	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		400	446	112	451	113	1	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		400	415	104	423	106	2	77-129/17
127-18-4	Tetrachloroethylene	1190		400	1620	108	1590	100	2	69-127/20
108-88-3	Toluene	ND		400	430	108	434	109	1	75-122/17
79-01-6	Trichloroethylene	ND		400	419	105	416	104	1	78-123/17
75-69-4	Trichlorofluoromethane	ND		400	406	102	382	96	6	65-136/23
75-01-4	Vinyl chloride	ND		400	379	95	369	92	3	57-146/22
1330-20-7	Xylene (total)	ND		1200	1360	113	1350	113	1	77-125/17
CAS No.	Surrogate Recoveries	MS		MSD	C3:	3286-2	Limits			
1868-53-7	Dibromofluoromethane	108%		99%	114	! %	70-1309	%	30	

^{* =} Outside of Control Limits.

Page 3 of 3

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C33475

Account:

RRMCASC Remediation Risk Management

Project:

3800 Partola Dr. Santa Cruz CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C33286-2MS	Q20684.D	20	04/15/14	RD	n/a ¯	n/a	VQ854
C33286-2MSD	Q20685.D	20	04/15/14	RD	n/a	n/a	VQ854
C33286-2 a	Q20683.D	20	04/15/14	RD	n/a	n/a	VO854

The QC reported here applies to the following samples:

Method: SW846 8260B

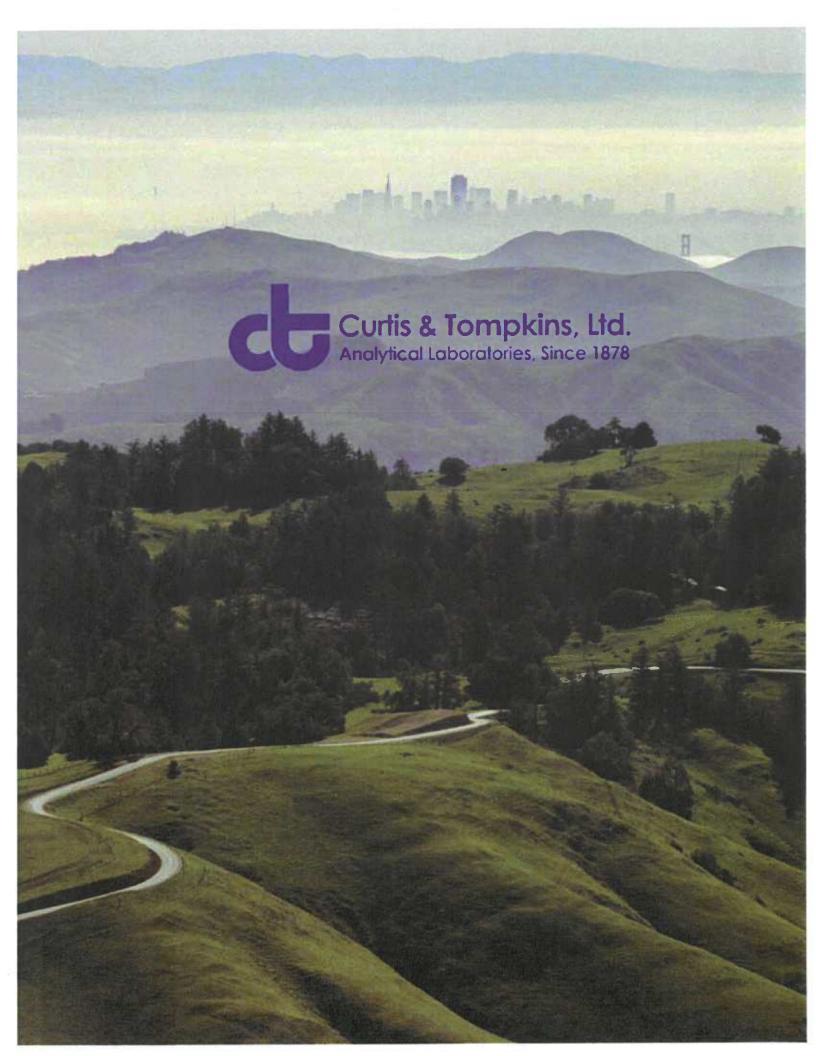
C33475-1, C33475-2, C33475-3

CAS No.	Surrogate Recoveries	MS	MSD	C33286-2	Limits
2037-26-5	Toluene-D8	103%	105%	102%	70-130%
460-00-4	4-Bromofluorobenzene	106%	105%	95%	70-130%

(a) Sample analyzed 1 day out of hold-time due to need for reanalysis; originally analyzed within hold-time.



^{* =} Outside of Control Limits.





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 255574 ANALYTICAL REPORT

Remediation Risk Management, Inc.

2560 Soquel Ave

Santa Cruz, CA 95062

Project : STANDARD

Date: 04/18/2014

Location : IA710

Level : II

Sample ID

SG-1

<u>Lab ID</u> 255574-001

SG-2 255574-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Mike J. Dahlquist
Project Manager

mike.dahlquist@ctberk.com

CA ELAP# 2896, NELAP# 4044-001



CASE NARRATIVE

Laboratory number:

255574

Client:

Remediation Risk Management, Inc.

Location:

IA710

Request Date:

04/11/14

Samples Received:

04/11/14

This data package contains sample and QC results for two air samples, requested for the above referenced project on 04/11/14. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):

High response was observed for naphthalene in the CCV analyzed 04/17/14 17:27; affected data was qualified with "b". No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946):

No analytical problems were encountered.

of NUESTED												1558 10/14 DATECTIME	DATE/TIME	DATE/TIME
Chain of Custody #: TESTING REQUESTED						OS, He, COS	×	×			RECEIVED BY:	Wills Tuthill	DATE/TIME	DATE/TIME
TING CHAIN OF CUSTODY PURCHASE ORDER	Wills	Matt Paulus or Cate Townsend	RRM 831-475-8141	The state of the s		Canister Flow Volume Code 87 Controller ID (Garge	323.00 131.00 1.00 x	145.00 5.00			DELICATION DAY.		d	
AIR TESTING CHA & PURCHASE OR CRITICGIN# 2555744	Sampler: W		Company : Telephone:	Email:	Sampling Information	Time Collected	14:03	14:29				2	l	
vkins, Ltd. / Since 1878			RUSH □ Standar			Sample ID. Date Collected	SG-1 4/10/2014	SG-2 4/10/2014						and the second s
Curtis & Tompkins, Ltd. Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510)486-0900 Phone	(510)486-0532 Fax Project No: IA710	Project Name:	Turnaround Time:			Lab No.	4	2			Notes:			

COOLER RECEIPT CHECKLIST



250000	
1 110111 4	umber of coolers O
Client RRMI Project 1	A710
Date Opened $4/14/14$ By (print) $4/14/14$ (sign) Date Logged in $4/14/14$ By (print) $4/14/14$ (sign)	Miller
1. Did cooler come with a shipping slip (airbill, etc) G50 Shipping info 524358133	(YES) NO
2A. Were custody seals present? YES (circle) on cooler Name Name	on samples NO
2B. Were custody seals intact upon arrival? 3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top composition of the composition of the packing in cooler: (if other, describe)	YES NO NA YES NO YES NO NO NO NO NO
☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ Cloth material ☐ Cardboard ☐ Styrofoam 7. Temperature documentation: * Notify PM if temperature exceeds 1.	
Type of ice used: Wet Blue/Gel None	Temp(°C)
☐ Samples Received on ice & cold without a temperature bla	nnk
☐ Samples received on ice directly from the field. Cooling p	rocess had begun
8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer?	YES NO
9. Did all bottles arrive unbroken/unopened?	CYES NO
10. Are there any missing / extra samples?	YES (NO)
11. Are samples in the appropriate containers for indicated tests?	YES NO
12. Are sample labels present, in good condition and complete?	YES NO
13. Do the sample labels agree with custody papers?	YES NO
14. Was sufficient amount of sample sent for tests requested?	XAS NO
15. Are the samples appropriately preserved?	YES NO NA
16. Did you check preservatives for all bottles for each sample?	YES NO NA
17. Did you document your preservative check?	YES NO ATA
18. Did you change the hold time in LIMS for unpreserved VOAs?	YES NO MA
19. Did you change the hold time in LIMS for preserved terracores?	YES NO X/A
20. Are bubbles > 6mm absent in VOA samples?	
21. Was the client contacted concerning this sample delivery?	YES NO 74/A
	YES NO NA
If YES, Who was called?By	YES NO NA YES NO NA YES NO NA YES NO
If YES, Who was called? By COMMENTS	YES NO NA YES NO NA YES NO NA YES NO
If YES, Who was called? By	YES NO NA YES NO NA YES NO NA YES NO
If YES, Who was called? By	YES NO NA YES NO NA YES NO NA YES NO
If YES, Who was called? By	YES NO NA YES NO NA YES NO NA YES NO
If YES, Who was called? By	YES NO NA YES NO NA YES NO NA YES NO



Detections Summary for 255574

Client : Remediation Risk Management, Inc.
Project : STANDARD
Location : IA710

Client Sample ID : SG-1 Laboratory Sample ID :

255574-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
1,3-Butadiene	6.3		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Acetone	21		3.9	0.28	ppbv	As Recd	1.940	EPA TO-15	METHOD
Carbon Disulfide	1.1		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
n-Hexane	11		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
1,1-Dichloroethane	1.1		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
2-Butanone	2.7		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Ethyl Acetate	4.3		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Cyclohexane	9.0		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Benzene	8.1		0.97	0.042	ppbv	As Recd	1.940	EPA TO-15	METHOD
n-Heptane	9.3		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Toluene	180		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD .
Ethylbenzene	3.1		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
m,p-Xylenes	19		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
o-Xylene	6.5		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
1,2,4-Trimethylbenzene	1.3		0.97	0.19	ppbv	As Recd	1.940	EPA TO-15	METHOD
Carbon Dioxide	39,000		1,900	29	ppmv	As Recd	1.940	ASTM D1946	METHOD
Oxygen	79,000		1,900	88	ppmv	As Recd	1.940	ASTM D1946	METHOD

Client Sample ID : SG-2

Laboratory Sample ID :

255574-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	24		4.0	0.29	ppbv	As Recd	2.000	EPA TO-15	METHOD
Carbon Disulfide	7.2		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
n-Hexane	6.3		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
2-Butanone	2.7		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
Cyclohexane	5.6		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
Benzene	3.2		1.0	0.043	ppbv	As Recd	2.000	EPA TO-15	METHOD
n-Heptane	2.2		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
Toluene	45		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
Tetrachloroethene	4.1		1.0	0.023	ppbv	As Recd	2.000	EPA TO-15	METHOD
m,p-Xylenes	2.2		1.0	0.20	ppbv	As Recd	2.000	EPA TO-15	METHOD
Carbon Dioxide	41,000		2,000	29	ppmv	As Recd	2.000	ASTM D1946	METHOD
Oxygen	92,000		2,000	91	ppmv	As Recd	2.000	ASTM D1946	METHOD



Volatile Organics in Air									
Lab #:	255574	Location:	IA710						
Client:	Remediation Risk Management, Inc.	Prep:	METHOD						
	STANDARD	Analysis:	EPA TO-15						
Field ID:		Diln Fac:	1.940						
Lab ID:	255574-001	Batch#:	210171						
Matrix:	Air	Sampled:	04/10/14						
Units (V)		Received:	04/11/14						
Units (M)		Analyzed:	04/17/14						

Analyte	Result (V)	RL	Result	
Freon 12	ND	0.97	ND	4.8
Freon 114	ND	0.97	ND	6.8
Chloromethane	ND	0.97	ND	2.0
Vinyl Chloride	ND	0.97	ND	2.5
1,3-Butadiene	6.3	0.97	14	2.1
Bromomethane	ND	0.97	ND	3.8
Chloroethane	ND	0.97	ND	2.6
Trichlorofluoromethane	ND	0.97	ND	5.4
Acrolein	ND	3.9	ND	8.9
1,1-Dichloroethene	ND	0.97	ND	3.8
Freon 113	ND	0.97	ND	7.4
Acetone	21	3.9	49	9.2
Carbon Disulfide	1.1	0.97	3.5	3.0
Isopropanol	ND	9.7	ND	24
Methylene Chloride	ND	0.97	ND	3.4
trans-1,2-Dichloroethene	ND	0.97	ND	3.8
MTBE	ND	0.97	ND	3.5
n-Hexane	11	0.97	38	3.4
1,1-Dichloroethane	1.1	0.97	4.5	3.9
Vinyl Acetate	ND	0.97	ND	3.4
cis-1,2-Dichloroethene	ND	0.97	ND	3.8
2-Butanone	2.7	0.97	8.1	2.9
Ethyl Acetate	4.3	0.97	15	3.5
Tetrahydrofuran	ND	0.97	ND	2.9
Chloroform	ND	0.97	ND	4.7
1,1,1-Trichloroethane	ND	0.97	ND	5.3
Cyclohexane	9.0	0.97	31	3.3
Carbon Tetrachloride	ND	0.97	ND	6.1
Benzene	8.1	0.97	26	3.1
1,2-Dichloroethane	ND	0.97	ND	3.9
n-Heptane	9.3	0.97	38	4.0
Trichloroethene	ND	0.97	ND	5.2
1,2-Dichloropropane	ND	0.97	ND	4.5
Bromodichloromethane	ND	0.97	ND	6.5
cis-1,3-Dichloropropene	ND	0.97	ND	4.4

RL= Reporting Limit

Result M= Result in mass units Result V= Result in volume units

Page 1 of 2



	Volatile	Or	ganics in Ai	r
Lab #:	255574		Location:	IA710
Client:	Remediation Risk Management, Inc.		Prep:	METHOD
Project#:			Analysis:	EPA_TO-15
Field ID:	SG-1		Diln Fac:	1.940
Lab ID:	255574-001		Batch#:	210171
Matrix:	Air		Sampled:	04/10/14
Units (V):	ppbv		Received:	04/11/14
Units (M)			Analyzed:	04/17/14

Analyte	Result (V)	RL	Result	(M) RL
4-Methyl-2-Pentanone	ND	0.97	ND	4.0
Toluene	1.80	0.97	670	3.7
trans-1,3-Dichloropropene	ND	0.97	ND	4.4
1,1,2-Trichloroethane	ND	0.97	ND	5.3
Tetrachloroethene	ND	0.97	ND	6.6
2-Hexanone	ND	0.97	ND	4.0
Dibromochloromethane	ND	0.97	ND	8.3
1,2-Dibromoethane	ND	0.97	ND	7.5
Chlorobenzene	ND	0.97	ND	4.5
Ethylbenzene	3.1	0.97	14	4.2
m,p-Xylenes	19	.0.97	83	4.2
o-Xylene	6.5	0.97	28	4.2
Styrene	ND	0.97	ND	4.1
Bromoform	ND	3.2	ND	33
1,1,2,2-Tetrachloroethane	ND	0.97	ND	6.7
4-Ethyltoluene	ND	0.97	ND	4.8
1,3,5-Trimethylbenzene	ND	0.97	ND	4.8
1,2,4-Trimethylbenzene	1.3	0.97	6.6	4.8
1,3-Dichlorobenzene	ND	0.97	ИD	5.8
1,4-Dichlorobenzene	ND	0.97	ND	5.8
Benzyl chloride	ND	0.97	ND	5.0
1,2-Dichlorobenzene	ND	0.97	ND	5.8
1,2,4-Trichlorobenzene	ND	0.97	ND	7.2
Hexachlorobutadiene	ND	0.97	ND	10
Naphthalene	ND	3.9	ND	20

Surrogate	%REC	Limits	
Bromofluorobenzene	89	70-130	

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Page 2 of 2



	Volatile (Organics in Ai	r	
Lab #:	255574	Location:	IA710	
Client:	Remediation Risk Management, Inc.	Prep:	METHOD	
Project#:		Analysis:	EPA TO-15	
Field ID:		Diln Fac:	2.000	
Lab ID:	255574-002	Batch#:	210171	
Matrix:	Air	Sampled:	04/10/14	
Units (V)		Received:	04/11/14	
Units (M)	, _	Analyzed:	04/18/14	

Analyte	Result (V)	RL	Result	
Freon 12	ND	1.0	ND	4.9
Freon 114	ND	1.0	ND	7.0
Chloromethane	ND	1.0	ND	2.1
Vinyl Chloride	ND	1.0	ND	2.6
1,3-Butadiene	ND	1.0	ND	2.2
Bromomethane	ND	1.0	ND	3.9
Chloroethane	ND	1.0	ND	.2.6
Trichlorofluoromethane	ND	1.0	ND	5.6
Acrolein	ND	4.0	ND	9.2
1,1-Dichloroethene	ND	1.0	ND	4.0
Freon 113	ND	1.0	ND	7.7
Acetone	24	4.0	57	9.5
Carbon Disulfide	7.2	1.0	22	3.1
Isopropanol	ND	10	ND	25
Methylene Chloride	ND	1.0	ND	3.5
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
MTBE	ND	1.0	ND	3.6
n-Hexane	6.3	1.0	22	3.5
1,1-Dichloroethane	ND	1.0	ND	4.0
Vinyl Acetate	ND	1.0	ND	3.5
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
2-Butanone	2.7	1.0	7.8	2.9
Ethyl Acetate	ND	1.0	ND	3.6
Tetrahydrofuran	ND	1.0	ND	2.9
Chloroform	ND	1.0	ND	4.9
1,1,1-Trichloroethane	ND	1.0	ND	5.5
Cyclohexane	5.6	1.0	19	3.4
Carbon Tetrachloride	ND	1.0	ND	6.3
Benzene	3.2	1.0	10	3.2
1,2-Dichloroethane	ND	1.0	ND	4.0
n-Heptane	2.2	1.0	9.1	4.1
Trichloroethene	ND	1.0	ND	5.4
1,2-Dichloropropane	ND	1.0	ND	4.6
Bromodichloromethane	ND	1.0	ND	6.7
cis-1,3-Dichloropropene	ND	1.0	, ND	4.5

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Page 1 of 2



W.	Volatile C	rganics in Ai	r	
Lab #:	255574	Location:	IA710	
Client:	Remediation Risk Management, Inc.	Prep:	METHOD	
Project#:		Analysis:	EPA TO-15	
Field ID:		Diln Fac:	2.000	
Lab ID:	255574-002	Batch#:	210171	
Matrix:	Air	Sampled:	04/10/14	
Unit's (V)	: ppbv	Received:	04/11/14	
Units (M)		Analyzed:	04/18/14	

Analyte	Result (V)	RL	Result	
4-Methyl-2-Pentanone	ND	1.0	ND	4.1
Toluene	45	1.0	170	3.8
trans-1,3-Dichloropropene	ND	1.0	ND	4.5
1,1,2-Trichloroethane	ND	1.0	ND	5.5
Tetrachloroethene	4.1	1.0	28	6.8
2-Hexanone	ND	1.0	ND	4.1
Dibromochloromethane	ND	1.0	ND	8.5
1,2-Dibromoethane	ND	1.0	ND	7.7
Chlorobenzene	ND	1.0	ND	4.6
Ethylbenzene	ND	1.0	ND	4.3
m,p-Xylenes	2.2	1.0	9.7	4.3
o-Xylene	ND	1.0	ND	4.3
Styrene	ND	1.0	ND	4.3
Bromoform	ND	3.3	ND	34
1,1,2,2-Tetrachloroethane	ND	1.0	ND	6.9
4-Ethyltoluene	ND	1.0	ND	4.9
1,3,5-Trimethylbenzene	ND	1.0	ND	4.9
1,2,4-Trimethylbenzene	ND	1.0	ND	4.9
1,3-Dichlorobenzene	ND -	1.0	ND.	6.0
1,4-Dichlorobenzene	ND	1.0	ND	6.0
Benzyl chloride	ND	1.0	ND	5.2
1,2-Dichlorobenzene	ND	1.0	ND	6.0
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11
Naphthalene	ND	4.0	ND	21

Surrogate	%REC	Limits
Bromofluorobenzene	92	70-130

RL= Reporting Limit

Result M= Result in mass units
Result V= Result in volume units

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Baten çe		organics in Ai	r	
Lab #: Client: Project#:	255574 Remediation Risk Management, Inc. STANDARD	Location: Prep: Analysis:	IA710 METHOD EPA TO-15	
Matrix: Units (V) Diln Fac:	Air : ppbv	Batch#: Analyzed:	210171 04/17/14	

Type:

BS

Lab ID:

QC736549

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.736	97	70-130
Freon 114	10.00	9.024	90	70-130
Chloromethane	10.00	9.457	95	70-130
Vinyl Chloride	10.00	9.816	98	70-130
1,3-Butadiene	10.00	9.248	92	70-130
Bromomethane	10.00	9.915	99	70-130
Chloroethane	10.00	8.658	87	70-130
Trichlorofluoromethane	10.00	10.53	105	70-130
Acrolein	10.00	8.036	80	62-130
1,1-Dichloroethene	10.00	10.13	101	70-130
Freon 113	10.00	10.97	110	70-130
Acetone	10.00	7.689	77	67-130
Carbon Disulfide	10.00	8.981	90	70-130
Isopropanol	10.00	8.319	83	60-130
Methylene Chloride	10.00	8.619	86	68-130
trans-1,2-Dichloroethene	10.00	10.39	104	70-130
MTBE	10.00	9.854	99	70-130
n-Hexane	10.00	8.468	85	70-130
1,1-Dichloroethane	10.00	9.962	100	70-130
Vinyl Acetate	10.00	11.59	116	70-130
cis-1,2-Dichloroethene	10.00	9.671	97	70-130
2-Butanone	10.00	10.11	101	70-130
Ethyl Acetate	10.00	7.835	78	70-130
Tetrahydrofuran	10.00	10.92	109	70-130
Chloroform	10.00	9.950	100	70-130
1,1,1-Trichloroethane	10.00	11.50	115	70-130
Cyclohexane	10.00	10.30	103	70-130
Carbon Tetrachloride	10.00	11.80	118	70-130
Benzene	10.00	9.995	100	70-130
1,2-Dichloroethane	10.00	10.32	103	70-130
n-Heptane	10.00	9.331	93	70-130
Trichloroethene	10.00	10.22	102	70-130
1,2-Dichloropropane	10.00	10.49	105	70-130

b= See narrative

RPD= Relative Percent Difference

Result V= Result in volume units

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	Volatile	Organics in Ai	r	
Lab #: Client: Project#:	255574 Remediation Risk Management, Inc.	Location: Prep: Analysis:	IA710 METHOD EPA TO-15	
Matrix: Units (V) Diln Fac:	Air	Batch#: Analyzed:	210171 04/17/14	

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	10.00	11.12	111	70-130
cis-1,3-Dichloropropene	10.00	11.04	110	70-130
4-Methyl-2-Pentanone	10.00	11.42	114	70-130
Toluene	10.00	9.595	96	70-130
trans-1,3-Dichloropropene	10.00	10.78	108	70-130
1,1,2-Trichloroethane	10.00	10.58	106	70-130
Tetrachloroethene	10.00	8.966	90	70-130
2-Hexanone	10.00	10.72	107	70-130
Dibromochloromethane	10.00	11.50	115	70-130
1,2-Dibromoethane	10.00	10.79	108	70-130
Chlorobenzene	10.00	8.686	87	70-130
Ethylbenzene	10.00	8.585	86	70-130
m,p-Xylenes	20.00	18.69	93	70-130
o-Xylene	10.00	9.560	96	70-130
Styrene	10.00	7.851	79	70-130
Bromoform	10.00	8.965	90	70-130
1,1,2,2-Tetrachloroethane	10.00	10.79	108	70-130
4-Ethyltoluene	10.00	9.576	96	70-130
1,3,5-Trimethylbenzene	10.00	10.74	107	70-130
1,2,4-Trimethylbenzene	10.00	11.55	116	70-130
1,3-Dichlorobenzene	10.00	9.857	99	70-130
1,4-Dichlorobenzene	10.00	9.588	96	70-130
Benzyl chloride	10.00	9.056	91	70-130
1,2-Dichlorobenzene	10.00	10.11	101	70-130
1,2,4-Trichlorobenzene	10.00	10.90	109	62-130
Hexachlorobutadiene	10.00	8.998	90	68-130
Naphthalene	10.00	13.09 b	131	54-136

Surrogate	%REC	Limits	
Bromofluorobenzene	102	70-130	

b= See narrative

RPD= Relative Percent Difference

Result V= Result in volume units

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Daten ge		Organics in Air	
Lab #: Client: Project#:	255574 Remediation Risk Management, Inc. STANDARD	Location: Prep: Analysis:	IA710 METHOD EPA TO-15
Matrix: Units (V) Diln Fac:	Air	Batch#: Analyzed:	210171 04/17/14

Type:

BSD

Lab ID:

QC736550

Analyte	Spiked	Result (V)	%REC	Limits		Lim
Freon 12	10.00	9.649	96	70-130	1	20
Freon 114	10.00	9.077	91	70-130	1	20
Chloromethane	10.00	8.953	90	70-130	5	27
Vinyl Chloride	10.00	10.10	101	70-130	3	23
1,3-Butadiene	10.00	8.964	90	70-130	3	21
Bromomethane	10.00	10.00	100	70-130	1	20
Chloroethane	10.00	9.280	93	70-130	7	20
Trichlorofluoromethane	10.00	10.63	106	70-130		20
Acrolein	10.00	7.765	78	62-130	3	31
1,1-Dichloroethene	10.00	9.777	98	70-130	4	20
Freon 113	10.00	11.09	111	70-130	1	23
Acetone	10.00	7.564	76	67-130	2	20
Carbon Disulfide	10.00	8.972	90	70-130	0	20
Isopropanol	10.00	8.541	85	60-130	3	21
Methylene Chloride	10.00	8.707	87	68-130	1	23
trans-1,2-Dichloroethene	10.00	10.44	104	70-130	0	20
MTBE	10.00	10.13	101	70-130	3	20
n-Hexane	10.00	9.343	93	70 - 130	10	20
1,1-Dichloroethane	10.00	9.976	100	70-130	0	20
Vinyl Acetate	10.00	12.34	123	70-130	6	21
cis-1,2-Dichloroethene	10.00	9.411	94	70-130	3	20
2-Butanone	10.00	10.53	105	70-130	4	20
Ethyl Acetate	10.00	8.286	83	70-130		20
Tetrahydrofuran	10.00	9.978	100	70-130		20
Chloroform	10.00	9.740	97	70-130	2	20
1,1,1-Trichloroethane	10.00	10.50	105	70-130	9	20
Cyclohexane	10.00	10.02	100	70-130	3	20
Carbon Tetrachloride	10.00	10.96	110	70-130	7	20
Benzene	10.00	9.617	96	70-130	4	20
1,2-Dichloroethane	10.00	9.481	95	70-130	8	20
n-Heptane	10.00	8.839	88	70-130	5	20
Trichloroethene	10.00	10.11	101	70-130	1	20
1,2-Dichloropropane	10.00	9.898	99	70-130	6	20

b= See narrative

RPD= Relative Percent Difference

Result V= Result in volume units

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		Volatile C	organics in Ai	r	
Lab #:	255574		Location:	IA710	
Client:	Remediation Ri	sk Management, Inc.	Prep:	METHOD	
Project#:		-	Analysis:	EPA TO-15	
Matrix:	Air		Batch#:	210171	
Units (V)	: ppbv	39	Analyzed:	04/17/14	
Diln Fac:				- 11	

Analyte	Spiked	Result (V)	%REC	Limits		Lim
Bromodichloromethane	10.00	10.25	103	70-130	8	20
cis-1,3-Dichloropropene	10.00	10.69	107	70-130	3	20
4-Methyl-2-Pentanone	10.00	11.18	112	70-130	2	20
Toluene	10.00	10.16	102	70-130	6	23
trans-1,3-Dichloropropene	10.00	10.96	110	70-130	2	20
1,1,2-Trichloroethane	10.00	11.34	113	70-130	7	20
Tetrachloroethene	10.00	9.677	97	70-130	8	20
2-Hexanone	10.00	11.53	115	70-130	7	21
Dibromochloromethane	10.00	11.95	120	70-130	4	20
1,2-Dibromoethane	10.00	11.78	118	70-130	9	20
Chlorobenzene	10.00	8.688	87	70-130	0	21
Ethylbenzene	10.00	8.098	81	70-130	6	20
m,p-Xylenes	20.00	17.60	88	70-130	6	20
o-Xylene	10.00	9.059	91	70-130	5	20
Styrene	10.00	7.472	75	70-130	5	21
Bromoform	10.00	9.999	100	70-130	11	20
1,1,2,2-Tetrachloroethane	10.00	11.68	117	70-130	8	24
4-Ethyltoluene	10.00	9.487	95	70-130	1	22
1,3,5-Trimethylbenzene	10.00	10.28	103	70-130	4	23
1,2,4-Trimethylbenzene	10.00	11.50	115	70-130	0	24
1,3-Dichlorobenzene	10.00	9.309	93	70-130	6	22
1,4-Dichlorobenzene	10.00	9.171	92	70-130	4	22
Benzyl chloride	10.00	8.090	81	70-130	11	21
1,2-Dichlorobenzene	10.00	9.514	95	70-130	6	22
1,2,4-Trichlorobenzene	10.00	10.84	108	62-130	1	28
Hexachlorobutadiene	10.00	8.698	87	68-130	3	27
Naphthalene	10.00	13.32 b	133	54-136	2	29

	Surrogate	%REC	Limits	
Bro	mofluorobenzene	97	70-130	

b= See narrative

RPD= Relative Percent Difference

Result V= Result in volume units

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Baten ge		Organics in Air	
Lab #:	255574	Location:	IA710
Client:	Remediation Risk Management, Inc.	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC736551	Diln Fac:	1.000
Matrix:	Air	Batch#:	210171
Units (V)	: ppbv	Analyzed:	04/17/14

Analyte	Result (V)	RL	Result	
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	5.0	ND	12
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	NĎ	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND .	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Page 1 of 2



Volatile Organics in Air					
Lab #:	255574	Location:	IA710		
Client:	Remediation Risk Management, Inc.	Prep:	METHOD		
Project#:		Analysis:	EPA_TO-15		
Type:	BLANK	Units (M):	ug/m3		
Lab ID:	QC736551	Diln Fac:	1.000		
Matrix:	Ãir	Batch#:	210171		
Units (V)	: ppbv	Analyzed:	04/17/14		

Analyte	Result (V)	RL	Result	(M) RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	1.7	ND	17
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	85	70-130

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Page 2 of 2



Fixed Gas Analysis				
Lab #:	255574	Location:	IA710	
Client:	Remediation Risk Management, Inc.	Prep:	METHOD	
Project#:		Analysis:	ASTM D1946	
Matrix:	Air	Sampled:	04/10/14	
Units:	pmv	Received:	04/11/14	
Units (Mo	1 %): MOL %	Analyzed:	04/17/14	
Batch#:	210168			

Field ID:

SG-1

Lab ID:

255574-001

Type:

SAMPLE

Diln Fac:

1.940

Analyte	Result	RL	Result (M	ol %) RL
Carbon Dioxide	39,000	1,900	3.9	0.19
Oxygen	79,000	1,900	7.9	0.19

Field ID:

SG-2

Lab ID:

255574-002

Type:

SAMPLE

Diln Fac:

2.000

Analyte	Result	RL	Result (N	lol %) RL
Carbon Dioxide	41,000	2,000	4.1	0.20
Oxygen	92,000	2,000	9.2	0.20

Type:

BLANK

Lab ID:

QC736541

Diln Fac: 1.000

Analyte	Result	RL	Result (Mol %) RL
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10

ND= Not Detected RL= Reporting Limit

Result Mol %= Result in Mole Percent

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6.0



Curtis & Tompkins Laboratories Analytical Report						
Lab #:	2.55574	Location:	IA710			
Client:	Remediation Risk Management, Inc.	Prep:	METHOD			
Project#:		Analysis:	ASTM D1946			
Analyte:	Helium	Batch#:	210168			
Matrix:	Air	Sampled:	04/10/14			
Units:	ppmv	Received:	04/11/14			
Units (Mo.	1 %): MOL %	Analyzed:	04/17/14			

Field ID	Type	Lab ID	Result	RL	Result (Mo	1 %) RL	Diln Fac
SG-1	SAMPLE	255574-001	ND	1,900	ND	0.19	1.940
SG-2	SAMPLE	255574-002	ND	2,000	ND	0.20	2.000
	BLANK	QC736541	ND	1,000	ND	0.10	1.000

RL= Reporting Limit

Result Mol %= Result in Mole Percent

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	A C 3 3 3 0		7 1 7 1 C	
Client:	2555/4 Remediation Risk Management, Inc.	Prep:	IA/IO METHOD	
Project#:	STANDARD	Analysis:	ASTM D1946	
Analyte:	Helium	Units (Mol %):	WOT %	
Field ID:	222222222	Batch#:	210168	
MSS Lab ID:	255708-001	Sampled:	04/15/14	
Matrix:	Air	Received:	04/16/14	
Units:	vmqq	Analyzed:	04/17/14	

ac			
Jiln F	1.000		1.950
Lim I			3.0
Limits RPD Lim Diln Fac	3.0		NC
	70-130		
%REC	86		
RL			0.1950
(% 10			
Result (Mol			
Resu			ND
RL			1,950
1 +	080		
Resu	186	NA	ND
Spiked	100,000		
MSS Result			<1,950
Type Lab ID	TCS 0C736539	LCS QC736540	SDUP QC736542
Type	ICS	ICS	SDUP

NA= Not Analyzed
NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference

Result Mol %= Result in Mole Percent

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	Fixed 0	as Analysis			
Lab #:	255574	Location:	IA710	-	
Client:	Remediation Risk Management, Inc.	Prep:	METHOD		
Project#:	STANDARD	Analysis:	ASTM D1946		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC736540	Batch#:	210168		
Matrix:	Air	Analyzed:	04/17/14		
Units:	ppmv				

Analyte	Spiked	Result	%REC	Limits
Carbon Dioxide	2,000	1,791	90	70-130
Oxygen	2,000	1,937	97	70-130



Fixed Gas Analysis						
Lab #: 255	5574	Location:	IA710			
Client: Rem	mediation Risk Management, Inc.	Prep:	METHOD			
Project#: STA	ANDARD	Analysis:	ASTM D1946			
Field ID:	ZZZ ZZZ ZZZZZ	Units (Mol %):	MOL %			
Type:	SDUP	Diln Fac:	1.950			
MSS Lab ID:	255708-001	Batch#:	210168			
Lab ID:	QC736542	Sampled:	04/15/14			
Matrix:	Air	Received:	04/16/14			
Units:	ppmv	Analyzed:	04/17/14			

Analyte	MSS Result	Result	RL	Result (Mol	%) RL	RPD	Lim
Carbon Dioxide	36,410	36,420	1,950	3.642	0.1950	0	30
Oxygen	104,900	104,800	1,950	10.48	0.1950	0	30

RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent
Page 1 of 1